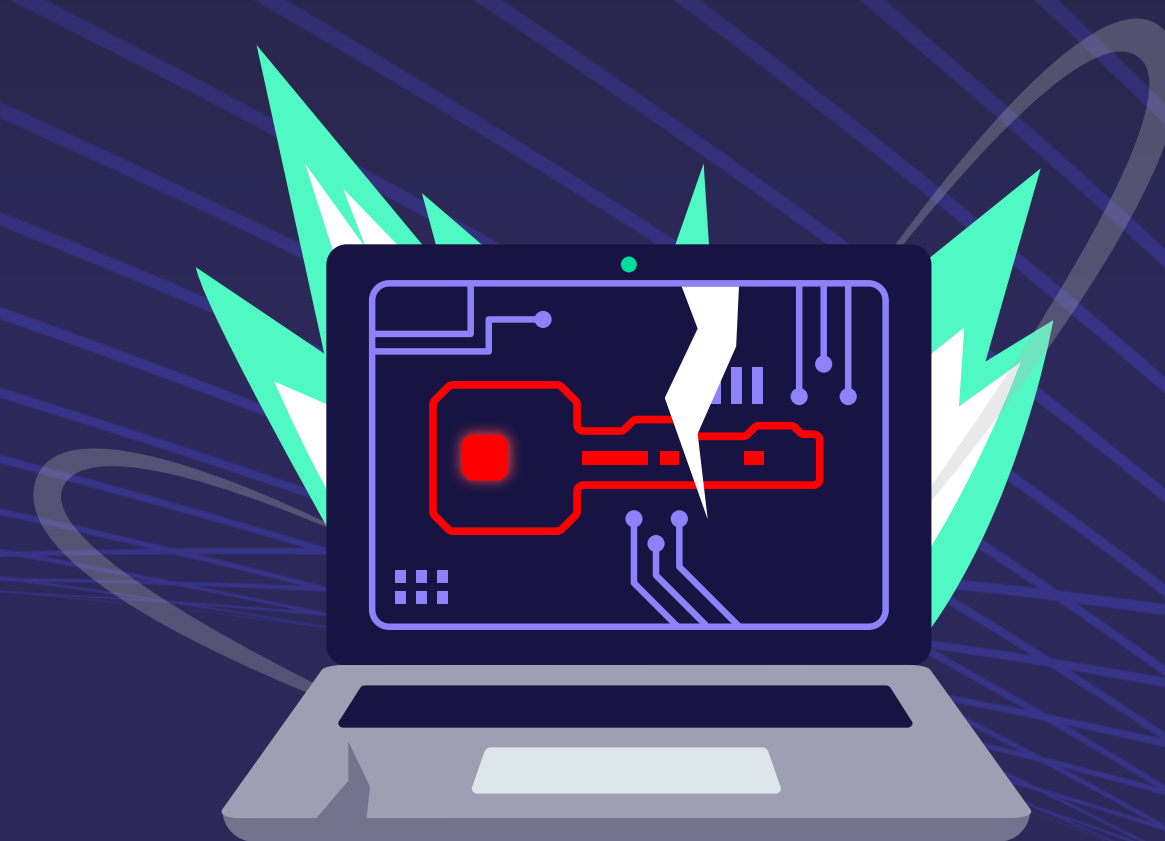


binarly

PKfail

Research Report



July 2024

PKfail

Supply - Chain Failures in Secure Boot Key Management

Secure Boot has always been the holy grail of platform security, and many security features at the operating system layer depend on its integrity. The first implementations originally appeared as a proposal in UEFI reference code called [Tianocore EDK2](#) in early 2000's but have been easily bypassable due to weak designs. In 2014, additional security technologies such as Intel Boot Guard were introduced to anchor secure boot security to the hardware. However, the high-level components of the original EDK2 implementation did not evolve significantly, creating a major weakness in platform security.

In 2023, the Binarly REsearch Team discovered a significant supply chain security incident when leaked private keys from Intel Boot Guard distributed by Intel in their reference code were used in production, an issue that impacted multiple vendors. Binarly documented all the impacted device manufacturers from this MSI/Insyde data leak and added the early detection of leaked keys to help the industry recover from this repeatable failure in supply chain security.

More details on the Intel BootGuard keys leak:

[Leaked MSI source code with Intel OEM keys: How does this affect industry-wide software supply chain?](#)

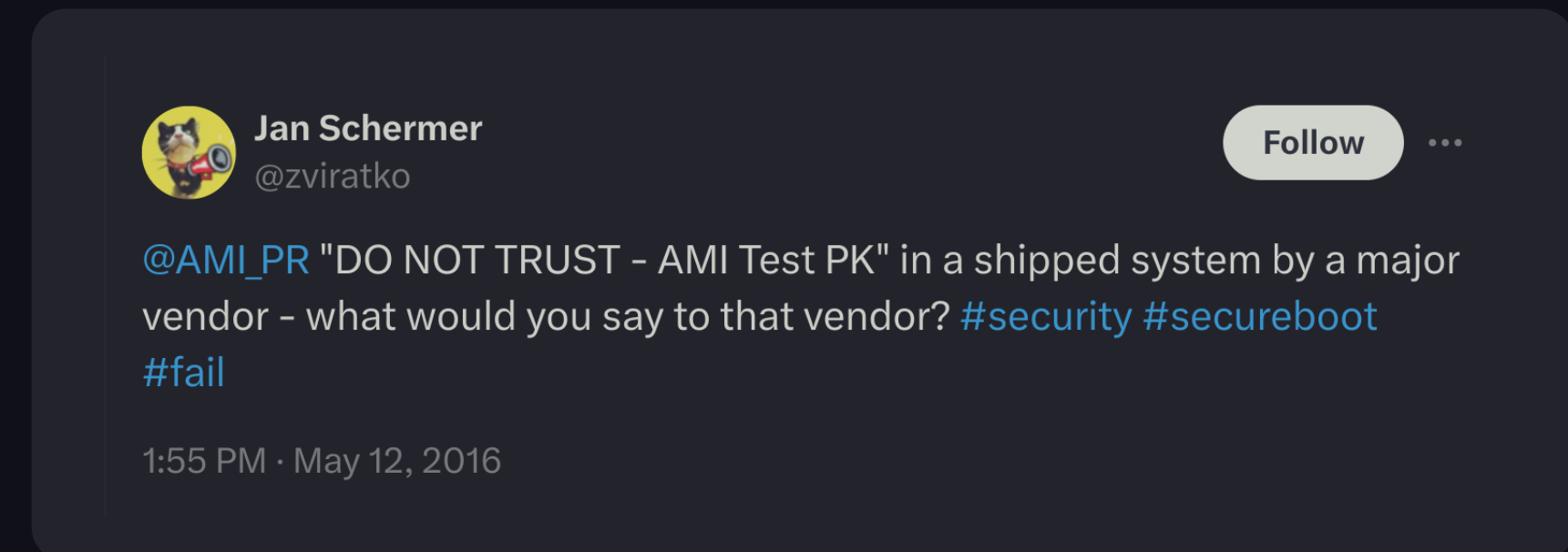
[Leaked Intel Boot Guard keys: What happened? How does it affect the software supply chain?](#)

Earlier this year, we noticed that the private key from American Megatrends International (AMI) related to the Secure Boot “master key”, called Platform Key (PK), was leaked during a data leak. The incident occurred at an ODM responsible for firmware development for multiple device vendors including US-based enterprise device manufacturers. The devices corresponding to this key are still deployed in the field, and the key is also being used in recently released enterprise devices.

The figure below shows the chronological order of the events that led to the investigation of PKfail by the Binarly REsearch Team.



- **2016** - The first public appearance of information related to the adoption of the AMI Test Key on production devices industry-wide.



In the end, this leads to [CVE-2016-5247](#) and [LEN-7806](#), documenting this security issue publicly for the first time.

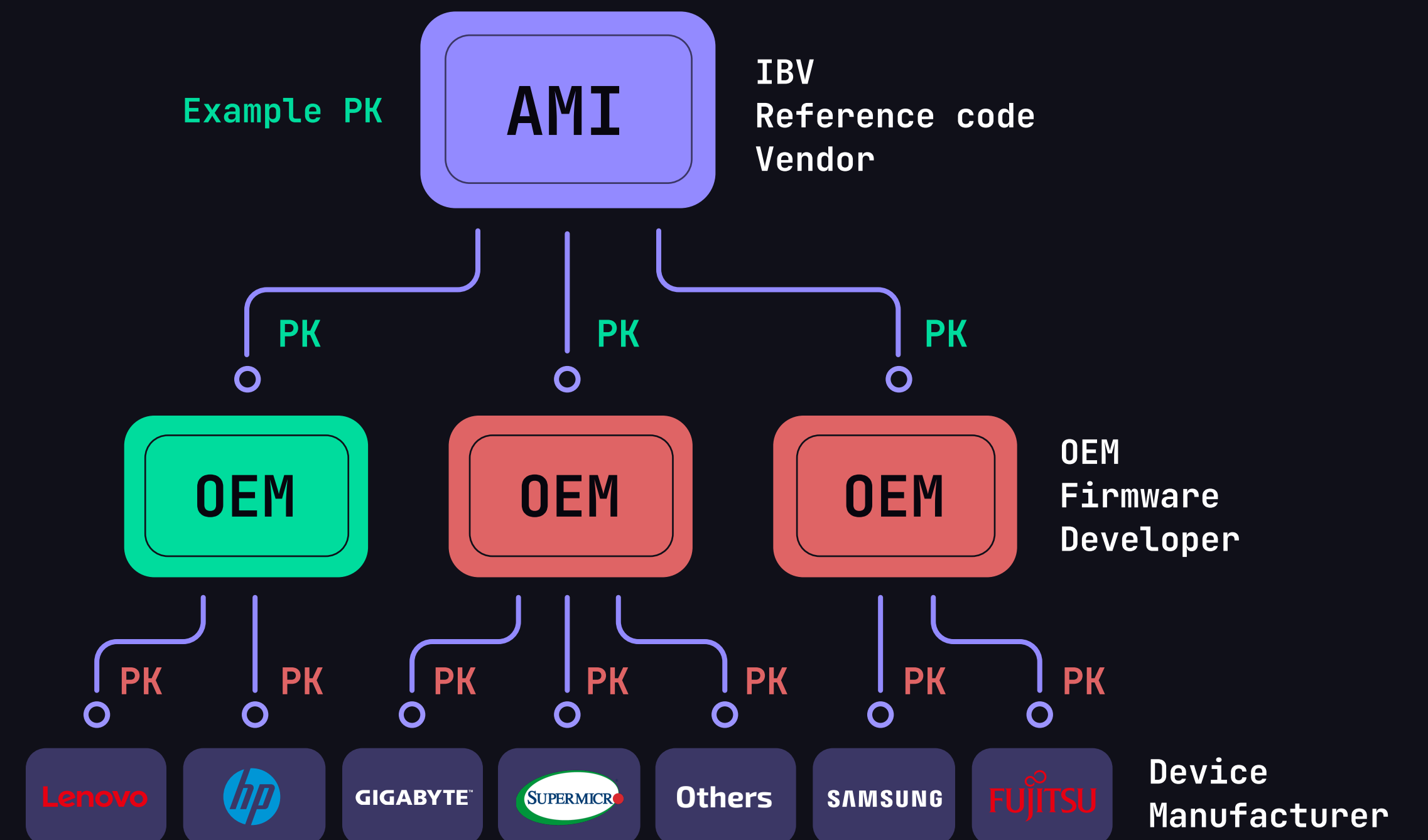
- **2018** - First in-the-wild appearance of the leaked AMI private key (based on Binarly and LVFS telemetry data).
- **2019** - [LVFS](#) added the blacklist to detect non-production keys based on
- **2022** - Data leak at one of the ODMs responsible for the development of AMI-based firmware for multiple device manufacturers.
- **2024** - Binarly investigates supply chain security incident, uncovering the industry-wide impact of PKfail.

PKfail and the Supply Chain

The PKfail issue highlights multiple security problems related to device supply chain security:

- Poor cryptographic materials management and appearance of the private keys directly in the code repositories with the hardcoded path from the build scripts.
- Usage of the non-production cryptographic keys responsible for the platform security of production firmware and devices.
- No rotation of the platform security cryptographic keys per product line. For example, the same cryptographic keys were confirmed on client and server-related products. Similar behavior was detected with Intel Boot Guard reference code key leakage.
- The same OEM used the same platform security-related cryptographic keys for firmware produced for different device manufactures. Similar behavior was detected with Intel Boot Guard reference code key leakage.

The figure below shows the relationship between different firmware supply chain layers and how the leaked platform key impacts the device vendors.



PKfail the Beginning

Today we disclose PKfail, a firmware supply-chain issue affecting hundreds of device models in the UEFI ecosystem. The root cause of this issue lies within the Secure Boot "master key," called the Platform Key in UEFI terminology. The Platform Key used in affected devices is completely untrusted because it's generated by IBVs and shared amongst different vendors. This key is used to manage the Secure Boot databases that determine what is trusted and what instead should not be executed, effectively maintaining the chain of trust from the firmware to the operating system.

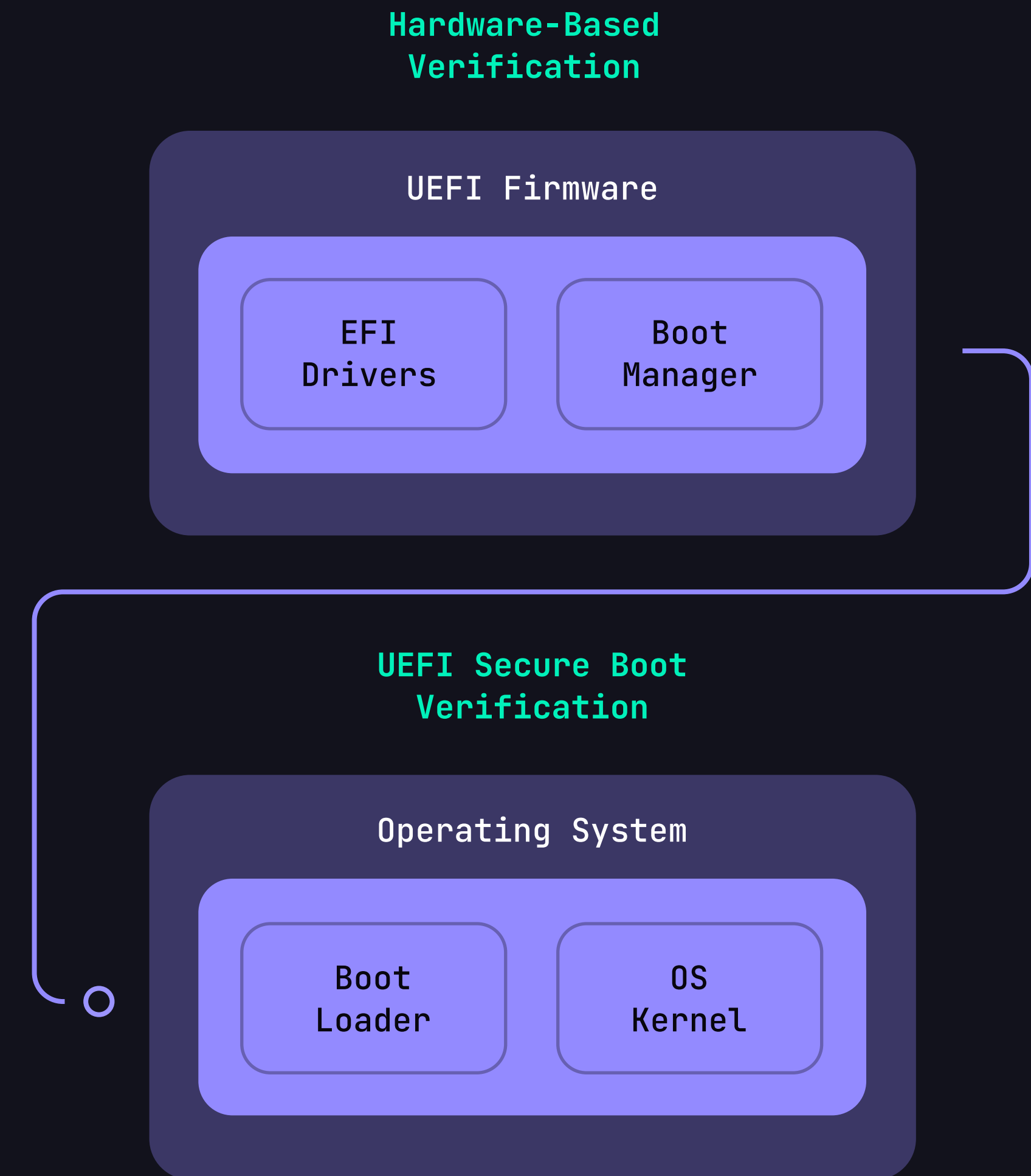
In theory, given its importance, the creation and the management of this master key should be done by the device vendors following best practices for cryptographic key management (for example, by using Hardware Security Modules).

In reality, the Binarly REsearch Team found that these keys are generated and embedded in their reference implementation by IBVs, under the expectation that any upstream entity in the supply-chain (such as OEMs or device vendors) would replace them. When this does not happen, devices get shipped with the original untrusted keys. Binarly researchers recently identified the private part of one of these Platform Keys in a recent data dump following a leak. This key is currently used by hundreds of devices in the market, putting them at immediate risk. Another peculiarity of PKfail is that it represents yet another example of [cross-silicon](#) issue, as it affects both x86 and ARM devices.

As we will show in this report, **attackers with access to a device vulnerable to PKfail can easily bypass Secure Boot by signing their malicious code, enabling them to deliver any sort of UEFI bootkit, like the recently discovered BlackLotus.**

A UEFI Secure Boot Primer

Modern computing heavily relies on establishing and maintaining trust, starting with trusted foundations and extending through operating systems and applications in a chain-like manner. This ensures that end users can confidently rely on the integrity of the underlying hardware, firmware, and software. In modern systems, trust is typically rooted in hardware-based implementations such as Intel Boot Guard or AMD Platform Security Processor—which however, as we reported in the past, are not immune to **serious supply-chain vulnerabilities**. The trust is then propagated to the operating system via UEFI Secure Boot, which ensures that only digitally signed and verified bootloaders and OS kernels are executed by the boot manager.

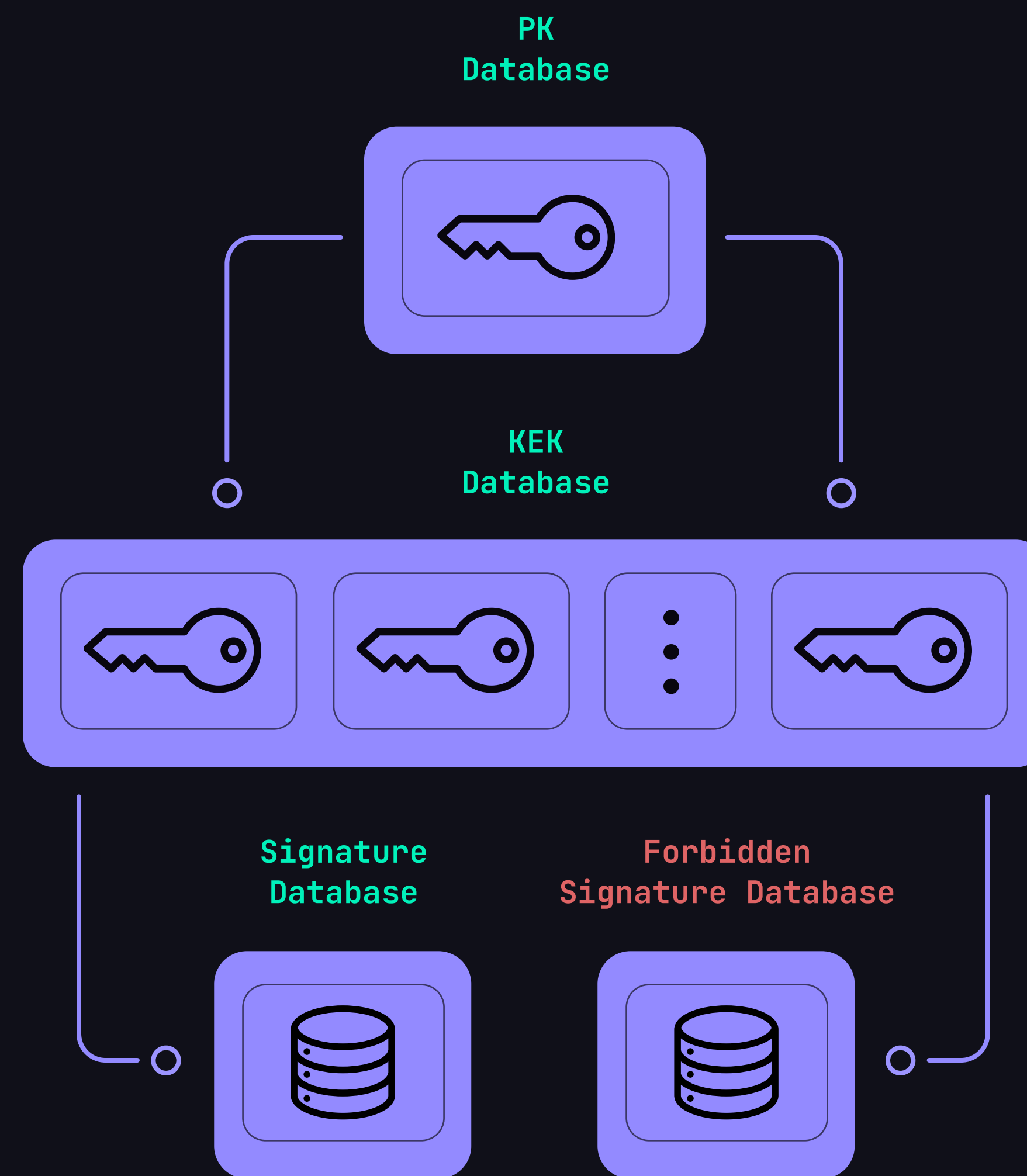


A verification-based view over the boot process

As shown in the next picture, Secure Boot uses public-key cryptography and it relies on four keys and databases for authentication:

- 1. Platform Key (PK):** The root-of-trust key embedded in the system firmware, establishes trust between the platform owner and platform firmware.
- 2. Key Exchange Key (KEK):** The key establishing trust between the operating system and the platform firmware
- 3. Signature Database (db):** A database containing trusted signatures and certificates for third party UEFI components and boot loaders, which are thus granted execution.
- 4. Forbidden Signature Database (dbx):** A database containing signatures and certificates used to sign known malicious software, which are thus denied execution.

Each database is stored in its corresponding NVRAM variable (PK, KEK, db, dbx). These variables are authenticated, meaning that when Secure Boot is enabled, updates are only allowed if the update data is signed by a higher-level key. The Platform Key (PK) can be used to add or remove keys from the Key Exchange Key (KEK) database, while the KEK can be used to update the Signature Database (db) and the Forbidden Signature Database (dbx).

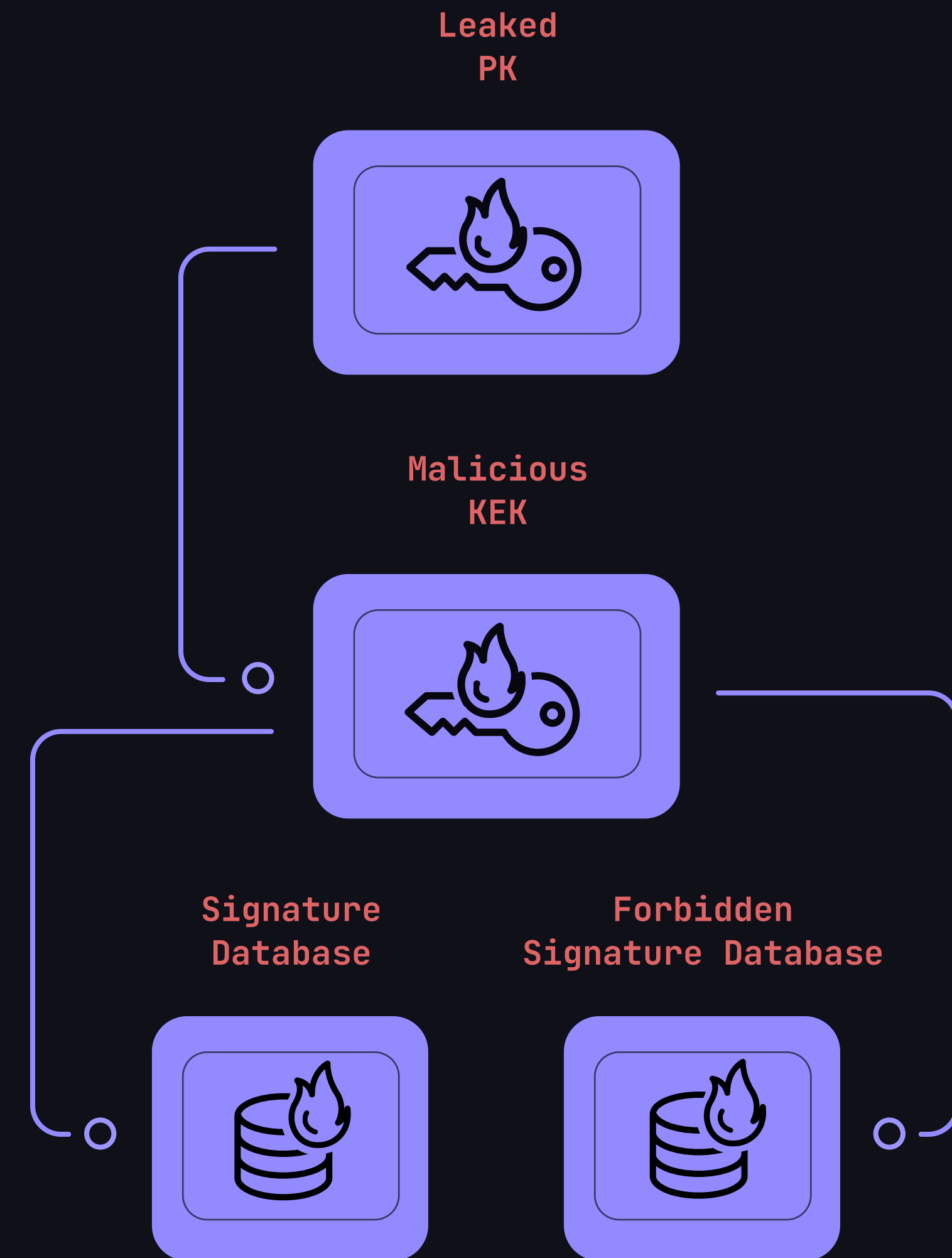


Secure Boot Databases

PKfail

Given the previous introduction, it is evident that **the Platform Key (PK) plays a critical role** in the security of Secure Boot. Access to the private part of the enrolled PK allows an attacker to easily bypass Secure Boot: the attacker can update the Key Exchange Key (KEK) database with a malicious KEK which can be subsequently used to tamper with the Signature Database (db) and the Forbidden Signature Database (dbx). **Since these databases are used during the verification process, an attacker exploiting PKfail can run untrusted code during the boot process, even when Secure Boot is enabled.**

The Binarly REsearch Team discovered that hundreds of products use a test Platform Key which was generated by American Megatrends International (AMI). This key was likely included in their reference implementation with the expectation that it would be replaced with another safely-generated key.



The effects of PKfail

These test keys are shared with commercial partners and vendors, so they must be treated as completely untrusted. There are several reasons that make us confident of this assessment:

1. By scanning an internal dataset of firmware images, we confirm that **devices from unrelated vendors contain the same Platform Key**, meaning that these keys must have been generated at the root of the firmware supply-chain.
2. These test keys have **strong indications of being untrusted** (for example, the certificate issuer contains the "DO NOT TRUST" or "DO NOT SHIP" strings).
3. More importantly, Binarly REsearch **discovered the private component of one Platform Key in a data leak**, where an alleged ODM employee published the source code containing the PK on a public GitHub repository. The private key was stored in an encrypted file, which was "protected" by a weak 4-character-long password and thus easily guessable with any password-cracking tool.

These three reasons clearly highlight the untrustworthiness of these keys.

```
Certificate:
  Data:
    Version: 3 (0x2)
    Serial Number:
      55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
    Signature Algorithm: sha256WithRSAEncryption
    Issuer: CN=DO NOT TRUST - AMI Test PK
    Validity
      Not Before: Nov  8 23:32:53 2017 GMT
      Not After : Nov  8 23:32:52 2021 GMT
    Subject: CN=DO NOT TRUST - AMI Test PK
    Subject Public Key Info:
      Public Key Algorithm: rsaEncryption
      Public-Key: (2048 bit)
      Modulus:
        00:e7:36:7b:20:92:ba:7f:aa:a3:f6:0e:49:08: ...
        .....
```

When Past is Present

Shortly after discovering PKfail, it became apparent that this was no novel vulnerability; in fact, it's quite the opposite. A quick search on the Internet returned numerous posts from users finding keys marked as "DO NOT TRUST" in their systems, worried about the security implications. But even more concerning, we discovered that the same vulnerability was known as far back as 2016 and it was even assigned [CVE-2016-5247](#).

Why are so many devices still vulnerable to this issue almost 10 years after public disclosure? The harsh truth is that the complex nature of the firmware supply chain -- where multiple companies contribute to the production of a single firmware image and the security of each component relies on others' security measures -- demands inspection capabilities that are far from the current industry's standards or simply unavailable from a technological point of view.

In 2019, the LVFS project introduced a check based on YARA rules to detect non-production keys. This rule matches the strings "DO NOT TRUST" or "DO NOT SHIP" with the intent of identifying and reporting firmware vulnerable to PKfail. This rule works well when the Platform Key is stored in an uncompressed form, but fails when the key is compressed and stored in a raw section or within the data section of UEFI modules.

To address this and other software supply-chain security challenges, the Binarly Transparency Platform analyzes firmware images and autonomously unpacks all nested components, creating a detailed blueprint of the input, allowing for the detection of PKfail and other known and unknown security vulnerabilities.

High

Untrusted AMI Test Certificate/Key

Description

Untrusted AMI test certificate/key detected in target firmware.

This issue can cause Secure Boot to be reconfigured on the target platform, allowing an attacker to execute unsigned or self-signed EFI boot loaders with Secure Boot enabled.

The Binarly Transparency Platform detecting PKfail

A Retrospective View on PKfail

To understand the actual scope of PKfail and its historical patterns, we scanned an internal dataset of UEFI firmware images using our Binary Transparency Platform. This dataset is representative of the UEFI ecosystem as it contains tens of thousands of images released in the last decade by all the major device vendors, including Lenovo, Dell, HP, HPE, Supermicro, Intel, MSI and Gigabyte.

The macro results of this scan are quite alarming: more than **10% of firmware images** in our dataset use an untrusted Platform Key and are thus vulnerable to PKfail. When only looking at firmware released in the past 4 years, the percentage reduces to 8%, though remaining at concerning levels. The first firmware vulnerable to PKfail was released **back in May 2012**, while the latest was **released in June 2024**. Overall, this makes this supply-chain issue one of the longest-lasting of its kind, spanning **over 12 years**. The list of affected devices, which at the moment contains almost 850 devices, can be found in our [BRLY-2024-005 advisory](#).

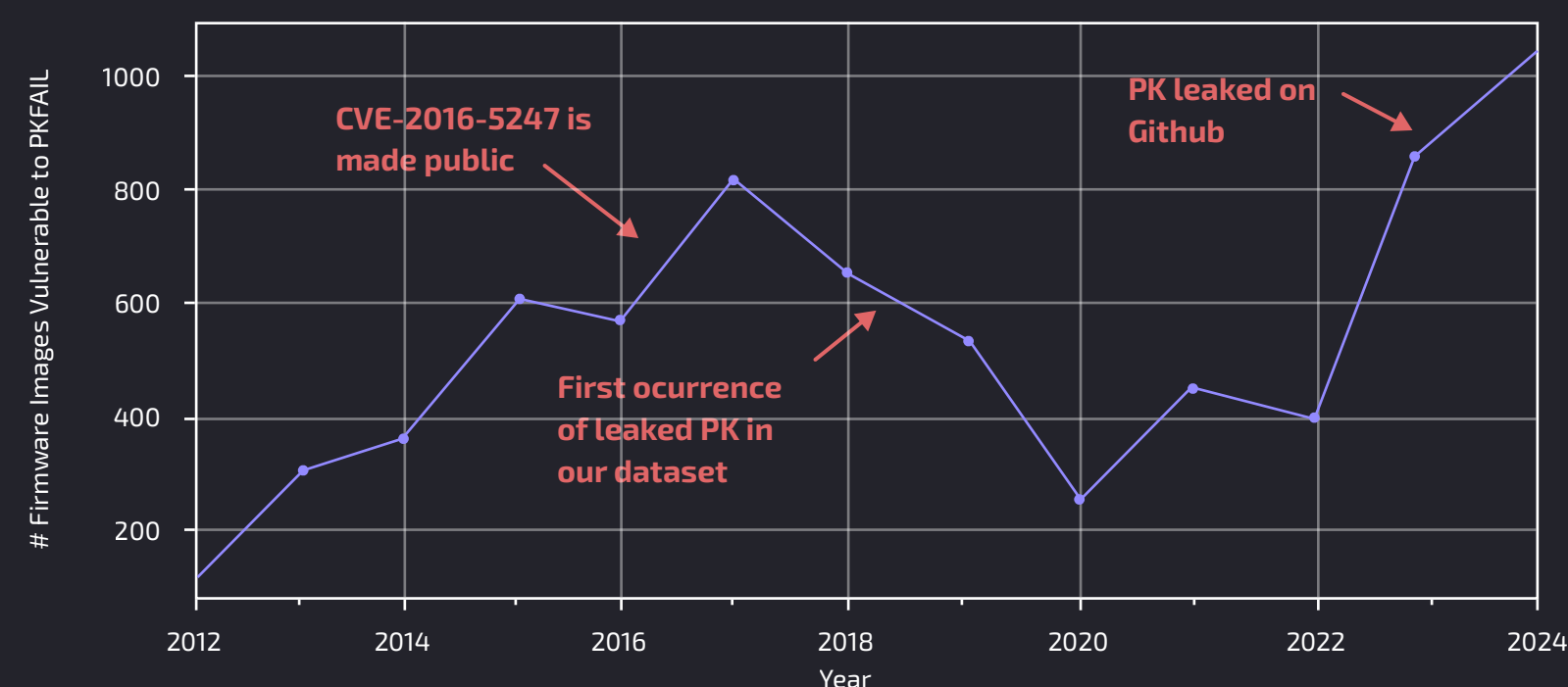
A closer look at the scan results revealed that our platform extracted and identified **22 unique untrusted keys**. The next table reports the five most frequently used keys, along with a breakdown of affected products and vendors.

Certificate Serial Number	Certificate Subject	Certificate Issuer	Last Seen	First Seen	Products	Vendors
55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4	CN=DO NOT TRUST - AMI Test PK	CN=DO NOT TRUST - AMI Test PK	2024-06	2018-04	364	Acer, Dell, Fujitsu, Gigabyte, Intel, Lenovo, Supermicro
-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59	CN=DO NOT TRUST - AMI Test PK	CN=DO NOT TRUST - AMI Test PK	2024-06	2022-06	167	Acer, Dell, Gigabyte, Supermicro
-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b	CN=DO NOT TRUST - AMI Test PK	CN=DO NOT TRUST - AMI Test PK	2024-03	2015-01	483	Acer, Dell, Gigabyte, Intel, Lenovo, Supermicro
-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37	CN=DO NOT TRUST - AMI Test PK	CN=DO NOT TRUST - AMI Test PK	2023-01	2014-12	287	Dell, Fujitsu, Gigabyte, HP, Intel, Lenovo, Supermicro
1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1	CN=DO NOT TRUST - AMI Test PK	CN=DO NOT TRUST - AMI Test PK	2021-03	2012-05	157	Acer, Dell, Fujitsu, Gigabyte, HP, Lenovo, Samsung, Supermicro

Summary of most used untrusted keys

From the certificate subject and issuer strings, we conclude that these keys were generated by AMI. This conclusion is further supported by how these test keys ended up in devices sold by unrelated vendors, as shown in the last column of the table.

By looking at the actual product names and models, we found another concerning issue: the very same key is used to protect a highly heterogeneous set of products. For example the key with serial starting with "55:fb:ef" was found **both in gaming laptops and in server motherboards**. Moreover, as we can see in the Last Seen and First Seen columns, **these keys survive in the ecosystem for multiple years**, up to almost 10 years in case of the key with serial "-1b:ed:93".



Number of firmware images using untrusted keys over time

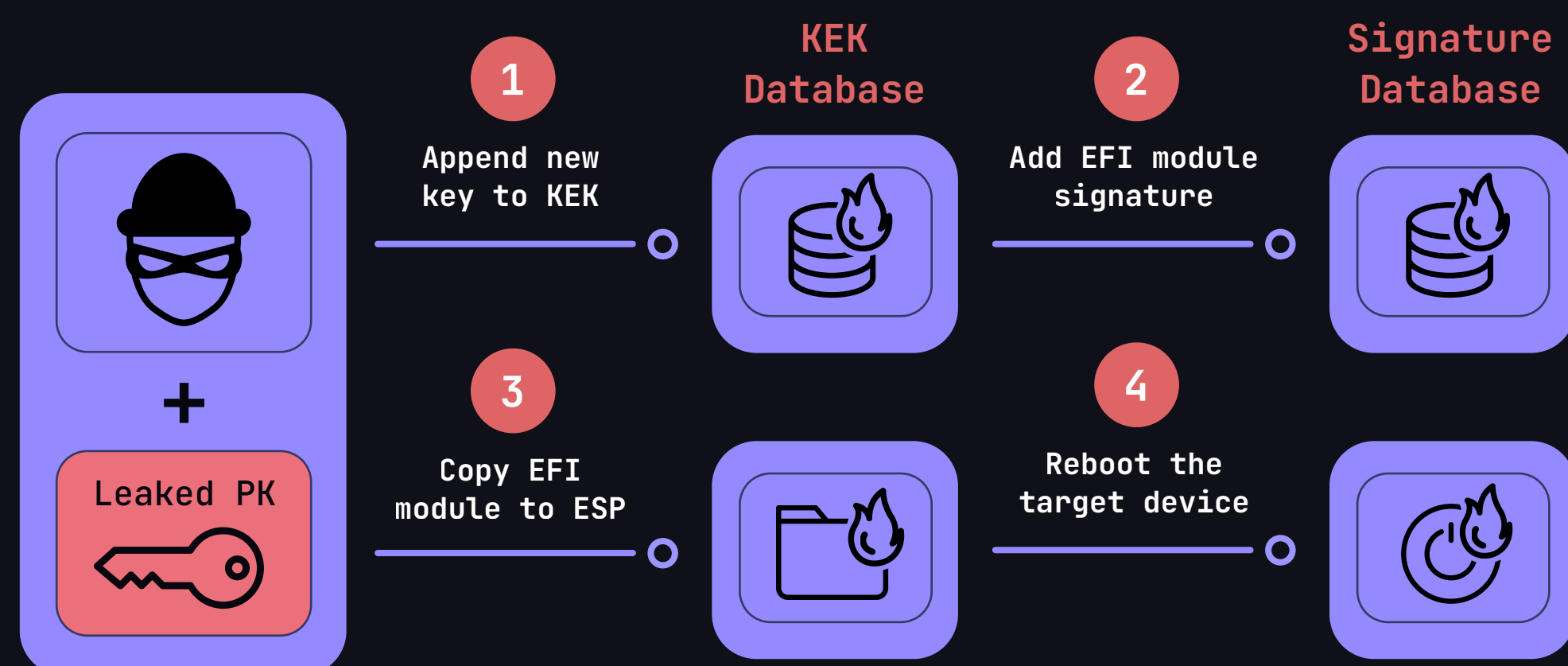
When looking at the historical trends of PKfail, depicted in the previous timeline plot, there are also a few interesting observations that can be made.

First, [CVE-2016-5247](#) was made public, the release rate of images vulnerable to PKfail kept its previous increasing trend, suggesting that the firmware industry was not very responsive to that 2016 vulnerability. This behavior is consistent with the findings from our [retrospective analysis on LogofAIL patches](#), where we found that the industry needed several months after the disclosure before security patches were ready and propagated to end-users. The reaction to CVE-2016-5247 can be finally seen in the period from 2017 to 2020, where the number of vulnerable images steadily decreased. This trend however changed again after 2020 and has persisted until current day, with a constant increase of vulnerable devices, which could signal that the industry simply forgot about this problem.

Another observation related to the private Platform Key leaked on GitHub is that this leak did not result in any visible impact on the number of vulnerable devices. This is once again unsurprising when put into context.

To be clear, this leak went almost unnoticed; in fact, we are the first to report that it contained the private part of a Platform Key. Second, the slow reaction to this security incident: by mining the data provided by the GitHub Archive and available on the Wayback Machine, we confirm that the repository remained publicly available for at least four months before getting noticed and removed by the original author, while it took five months to delete all the forks of the offending repository. Quite concerningly, **the leaked key is still in use in many devices and has been used for quite some time**: the first occurrence of this key in our dataset dates back to April 2018.

Developing a Proof of Concept for PKfail



Summary of an attack based on PKfail

An attack leveraging PKfail is relatively straightforward since it doesn't involve any memory corruption or exploitation. Instead, it relies on standard tooling normally used to interact with Secure Boot.

The prerequisites for PKfail are that the attacker must have privileged access to the target device and must have the private key of the enrolled PK. With these, the attacker can generate a new KEK and use the private part of PK to add it to the KEK database:

```
openssl req -newkey rsa:4096 -nodes -keyout KEK.key -new -x509 \
  -sha256 -subj "/CN=BRLY KEK/" -out KEK.crt
efi-updatevar -a -c KEK.crt -k PK.key KEK
```

The freshly enrolled KEK can then be used to sign an update to the Signature Database (db), which contains the signature of the malicious module that the attacker wants to run:

```
efi-updatevar -a -b Malicious.efi -k KEK.key db
```

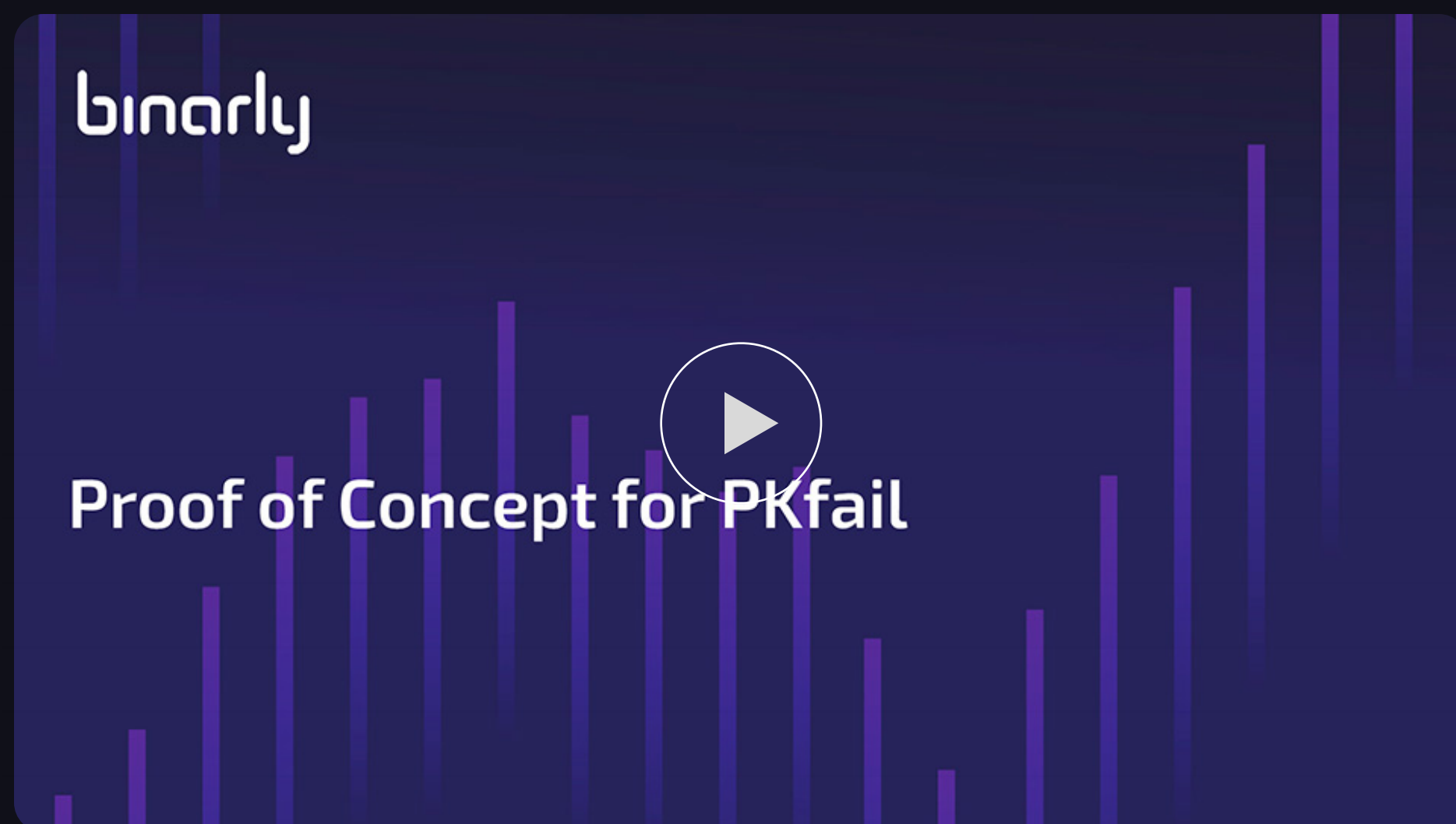
As an alternative, the attacker could also generate and insert a new certificate into db, and then use it to sign arbitrary EFI modules (for example, with the sbsign utility).

At this point, the last step is to copy the malicious module to the ESP, update the UEFI Boot Manager configuration and reboot the device:

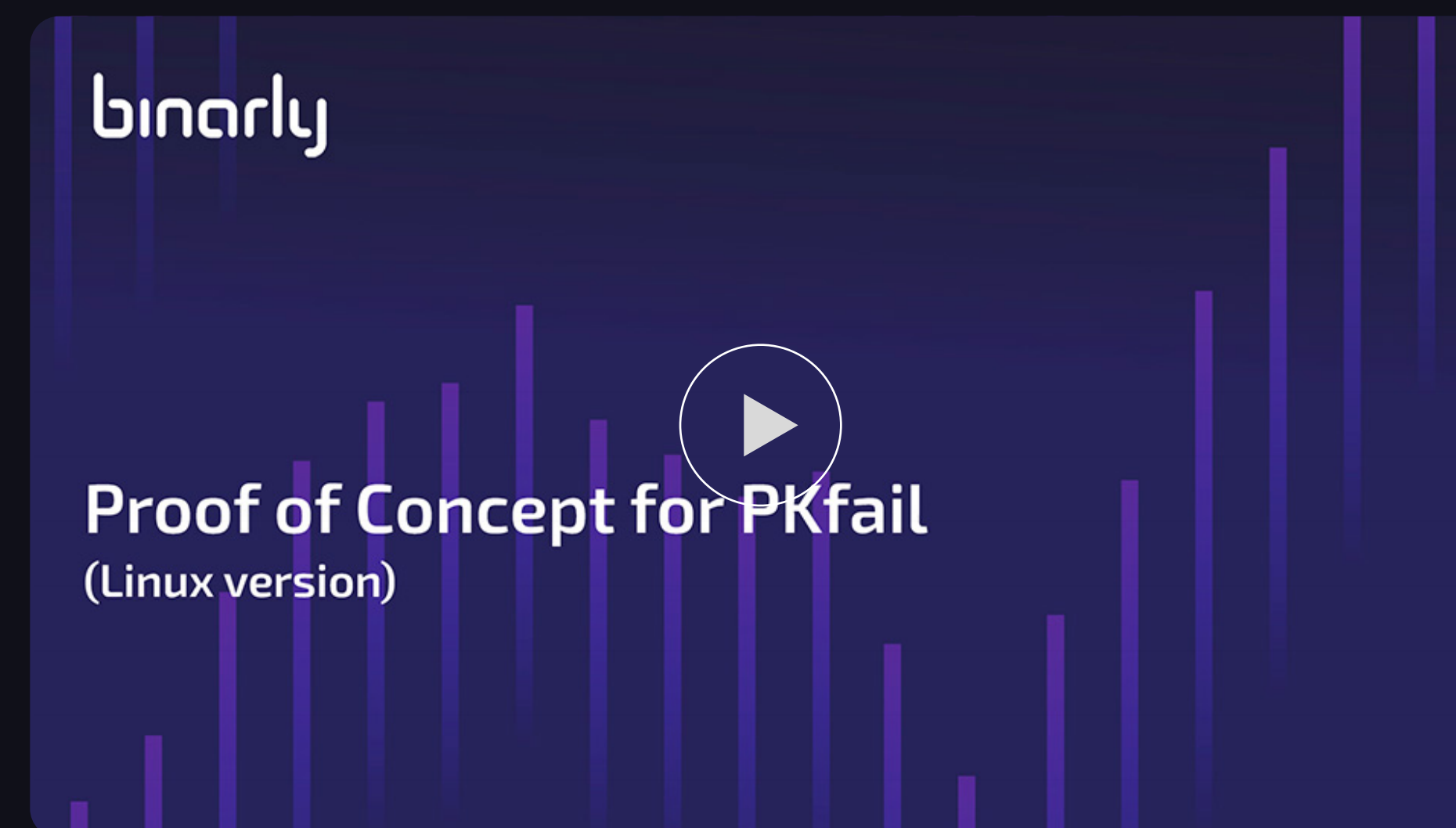
```
cp Malicious.efi /mnt/ESP/EFI/
efibootmgr --create --disk /dev/sda --part 1 \
  --label "Malicious" -- loader '\EFI\Malicious.efi'
reboot
```

Once the firmware completes the initialization phase, it will load and execute the Malicious.efi module, which will successfully pass the Secure Boot validation due to its signature being present in db. This module has full control over the target device allowing, for example, to easily modify files on the disk or to hook into the OS loader to propagate the attack into the OS (as done by BlackLotus).

To test this attack we wrote a PoC against a vulnerable device -- the Gigabyte BR1X PRO GB-BSi3-1115G4 -- targeting both Linux and Windows 11. In both PoCs, the "malicious" module simply prints a message before exiting and leaving control to the OS bootloader.



[YouTube Video](#)



[YouTube Video \(Linux version\)](#)

What about other IBVs?

The two main other IBVs, Phoenix Technologies and Insyde Software, seem to have a similar approach of creating Secure Boot test keys and embedding them in their reference implementation. However, we believe that their UEFI solutions include a mechanism to prevent OEMs from shipping firmware with test keys. This is further indicated by the fact that the only examples of firmware and devices vulnerable to PKfail based on the reference implementations of Phoenix and Insyde were released in 2013.

Detection and Remediation

Devices affected by PKfail will have the strings “DO NOT TRUST” or “DO NOT SHIP” in the subject and issuer fields of the Platform Key certificate.

On Linux, PKfail can be easily detected by displaying the content of the PK variable:

```
$ efi-readvar -v PK
Variable PK, length 862
PK: List 0, type X509
  Signature 0, size 834, owner 26dc4851-195f-4ae1-9a19-
  fbf883bbb35e
  Subject:
    CN=DO NOT TRUST - AMI Test PK
  Issuer:
    CN=DO NOT TRUST - AMI Test PK
```

On Windows, running the following command in a privileged PowerShell console will return True on affected devices:

```
> [System.Text.Encoding]::ASCII.GetString((Get-SecureBootUEFI
PK).bytes) -match "DO NOT TRUST|DO NOT SHIP"
True
```

The Binarly REsearch Team recommends that affected users update their firmware when device vendors will release an updated version with fixes for PKfail. Expert users can re-key the PK with a trusted key. The other Secure Boot databases – KEK, db and dbx – must also be assumed compromised, thus expert users should check and replace them with new databases of trusted signatures and certificates.

Conclusions

The Binarly REsearch Team (re)discovered PKfail, a firmware supply chain issue affecting hundreds of devices. PKfail concerns the master key used by UEFI to administer the Secure Boot databases, thus allowing attackers an easy venue to completely bypass Secure Boot and run untrusted code during boot. The source of the problem is that test keys were embedded in the reference implementation by AMI and not replaced with safer keys by any upstream entity in the supply chain.



Appendix - List of Affected Devices

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Acer	vz2694g	2024-03-26	d61d0e09d008bfb29bc32532b1b94fcc4ee2af5e8372c6d38722a4e73ecc71d6	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Acer	aspire s 27	2024-02-26	2bd2bfaf79a72eaca45e544e5c6a5bb842b292bdc229b8975b3101a4013e0d5f	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Acer	aspire s32-1856	2024-02-26	29837e239487cc83818a7f40f9280d9692a50376487899edd603494b0f30e4c5	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Acer	aspire xc-1710	2024-02-16	cdaa406bda1a58f9933622dec218a26f79871d42f0d3576fbf878e51a16201	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Acer	c24-1655	2022-05-18	399f68dc94a6c42030efcd57fd034ff721f860b7b5d447779e7a6a6c99aba34f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Acer	aspire c22-1600	2022-01-17	d938d08543d35d4249a51057c1d9c62bb1f6440af19913c5feffcea47dd3de95	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Acer	c24-962	2020-12-08	3d525f96f63995c51ab1bcd2c50ebb71661ffeca9f78f97cc97e851d0e2bbbdd	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Acer	altos r680 f4	2019-07-17	a2679a9595a104d70bddc024dbc4f65f0dc9d906f30a0d1ae6b996b14246a6c2	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Acer	altos r680s f4	2019-07-17	e5fdaabf11b236c5c7b040d674936e84db746a180ab9999317e16dcb77aeeba4	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Aopen	iAPLx-DE(TAA30 TEST)	2022-07-20	94c6f84946db100b505af8a308f69ef6cddc2e310b50641a6e2e63bc9aed54e0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Aopen	iKBLMUx-DER(Volta Charging)	2022-04-27	fc339e12730f057e41ad41228f9612d4954f2d0dbcfeef37e14dcdaf2866e05	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	inspiron-15-3510-laptop	2024-06-13	7fbfd8b03d178e074572dff764f28af98c87c7556ce3837ccb8dfe993efa1940	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Dell	alienware-m17-r3-laptop	2024-06-12	620848eeadb74a572d6400672aecca35f46dfdc7b5152bb028fbcfb74ea7bccd	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Dell	alienware-x17-r2-laptop	2024-06-12	65f5939878deede2e1b24a6412ba025b78f45b1562e9d365d97e1c76a32a1832	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Dell	alienware-m17-r4-laptop	2024-06-12	f75b595b9ce5e1e25a5d64e54edffdf696251b4f4e860c0d3a03a183631f090e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	alienware-aurora-r15-amd-desktop	2024-06-12	6348442334e85e8374884ea848685771053a7cf274ccb77559c710b5a00f61e9	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Dell	inspiron-15-3521-laptop	2024-06-11	e2242e4aa3a284fcbbcf2f38a10bec24408f1eff74bb307e699ea46f483359f2	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Dell	alienware-area51m-r2-laptop	2024-06-11	253743e7a39d0b709122c5329799f4c4608536eeb632218e7f0cbe1f6e8b5db8	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	alienware-m17-r3-laptop	2024-06-11	413a04c12bde19f1f97d9d334ed57197f0405f9f10ab7154d2b71e5471577c97	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	alienware-x15-r1-laptop	2024-06-11	4fc54067f263791aed2fa4b57b226ea15c4eb0f55b3797e002bb62aa936bdd8c	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	alienware-aurora-r11-desktop	2024-06-06	8f79d9de33f5f131226a78ccb10bb16218a5be51b2105cc32e38ceb0c8c30e9a	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	inspiron-15-3502-laptop	2024-06-05	62c02a9b5a4d4328ac41c3e3aa7757e64e6c5cd52b9e047333ad18e60d17fcb6	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Dell	alienware-aurora-r13-desktop	2024-06-05	dc5912033c5ca14475f2d59ca47f25c8840f362f0c8553d13bb06a8e47c42abf	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	xps-8950-desktop	2024-06-05	6982be0bd8e1aed1251fe5300eec2b515b7cab70e761cfb72074f5d658d092d9	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	alienware-aurora-r15-desktop	2024-06-05	7e310dca802db0f7a22d39bb2d7d5b79c7e9df8e5698f0e691942ec334ce5794	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	alienware-aurora-r14-desktop	2024-06-05	26a447a94e96fa8d9c590888cae490750c32d5af95faece3595f21efc41c1f2c	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Dell	alienware-aurora-r16-desktop	2024-05-09	06a9dff8fb3edafd1b6377cf38879860a0ae3c87f97258e09d189d291f64ead	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	xps-8960-desktop	2024-05-09	0dcd7494f4926fb04b56e9713f0b62eff3a345b626fa2adaf47636bf0bb4c3eb	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	alienware-m15-r2-laptop	2024-01-30	69da86e9cf24c49496529f3041604a6bb1c0c0ab86c192239d31d3a9b92467cd	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	inspiron-17-3782-laptop	2023-09-12	602a23f43b11817ad5439579969753866a54b836f34dfe19342e5188cf088d85	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Dell	alienware-15-r4	2022-12-08	608e410d1c0475dac58b1e8f36b477aa8d9e9f28d30ec89d44b550e36bbbf47	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Dell	inspiron-5680-gaming-desktop	2022-10-31	f1075841f54237735c1135ebf92baeab9c0c3f8b051229f898520f5b0f265353	58:4c:65:6d:d4:0d:8d:ae:48:e5:ec:bb:a9:7f:6f:51
Dell	alienware-17-laptop	2022-05-16	d4ed519bd5e5ba2f027d00635494d485f19f3080d8baf6d711b190323294e216	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Dell	alienware-13-laptop	2022-05-16	cb25317443d65ba126174c8b7547c7d2f6c0288f859e2063436eb7b350d9bf62	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Dell	inspiron-3472-desktop	2021-11-09	02877ae1ee43c787fa980d6e897e14546ac193100395bbcc6bc26fdf3077e860	-0b:79:94:48:a7:77:41:b1:16:82:d2:be:16:50:3b
Dell	alienware-17-r3	2021-07-30	003130dabf11c8b5df286d9584b3174faa9529cd6149513d13c7ce85d63d97b0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Dell	alienware-13-r2	2021-07-30	e6819bd24e063807336994f36e1b7cafbbec46c2679a365dde1b54b720a049e4	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Dell	vostro-24-5460-aio	2021-06-09	d54e560849c716d0ded4b25d9aacc746f77174cc6d3eeb3a50424eaf337c92aa	58:4c:65:6d:d4:0d:8d:ae:48:e5:ec:bb:a9:7f:6f:51
Dell	inspiron-20-3059-aio	2021-03-03	4b4fd4cc68e48cfbacaf1279ff42ce6e9d37aa7706efffb2a0bb84fbda2aab2	27:1d:73:f2:2b:76:f7:b2:4d:52:e1:52:e0:40:eb:dd
Dell	inspiron-24-5459-aio	2021-03-03	2c6a0bd7b3a91b9e1b309bde7d405812a42abe40001ce661252d81e7cd009650	-62:1d:1a:58:a8:34:f2:62:bf:4e:2b:e5:27:e9:32:1c
Dell	inspiron-22-3263-desktop-aio	2021-02-22	13deddbbdccb6e5411317e96bdb045e28c0dcbb7e86ed5f32e5d24b4b54a5657	27:1d:73:f2:2b:76:f7:b2:4d:52:e1:52:e0:40:eb:dd
Dell	inspiron-3250-small-desktop	2021-02-17	95446bcddec63d36a9f5554815892c104febb73c676a075d789e4b7c69979fa6	75:15:48:57:1a:c5:49:9d:4b:e3:25:11:e1:7d:41:3a
Dell	inspiron-24-3464-aio	2021-02-04	3ffd081959db4684563f0044cca9ac16d5467a42d40913f503bad8d171bf1c99	39:e7:7f:95:d5:9d:74:83:46:0c:b0:06:75:54:ab:f5
Dell	inspiron-3662-desktop	2020-12-22	5a02b9214bb7ca03030323835a85efd84d369ff02a6baf9193083e2b22e8d0c3	33:c9:da:4a:88:90:52:a5:4d:da:26:fe:c3:c7:bc:be
Dell	alienware-13	2020-09-23	fe9e2b75babda09ba22a3e99494198e125188d9345bda2b961f10e98e6c2b784	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Dell	inspiron-one-23-2330-aio	2020-06-29	374f19a62abe5b7c195038ebc945528046478ba7fac2b7b429edfaa47122e6e6	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Dell	alienware-17-r2	2019-10-14	e94ccb36573d53127cfd1f6d617c31ba8562fbdd4b43e48fe1fd52325315756	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Dell	poweredge-c5230	2019-09-19	52dbddaf0c9803e7f9dd389519b829515abe97dc0fbd9b979230de28880f595d	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Dell	alienware-alpha	2019-06-20	f1d2c02737ba96e93892f38c161b3f35fbca79a4302e439e8405d3434ed88fdb	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Dell	inspiron-15-5552-laptop	2018-10-26	73e72a45f92daa7ef76dcf82e6d13113cd9acbd2250d78d2e02232535f83fbc5	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Dell	inspiron-3646-small-desktop	2018-03-17	081c82a0748297ca5841b1772330fb6e776c678d425789a66e3072fb73d072d7	45:18:b4:22:4e:57:12:8b:44:18:25:a1:f4:5e:81:1d
Dell	inspiron-24-3455-aio	2018-03-06	2fd0f72190810fa5c4a2a3f57a7bce51dd0baa47584b59b7cba4752a92c66ee5	-3e:e5:01:34:bd:a5:df:51:bf:6e:a5:6f:2a:78:08:8f
Dell	vostro-20-3052-aio	2018-03-05	c4574a6a5e1e6b4f3b4a3317b51d75c3764395775f900b9ede99dca5e76849f2	-08:d7:1a:d0:15:1f:f5:41:bb:20:e7:ee:55:21:99:6d
Dell	vostro-3252-small-desktop	2018-02-26	9cc04e65928cf4852d0ae16d55808b42542387ae389ebb3e42f888638909932	-52:0b:5c:21:69:a2:5a:64:bb:ab:f5:d8:ef:5a:7c:ce
Dell	inspiron-3655-desktop	2017-10-24	31a7af2885146a94a82ce214a26e4dcdcf36969aa47a7a1eaf3725fa6a2198d	18:ab:83:60:14:84:6e:84:47:d4:bc:ea:92:44:4b:d2
Dell	inspiron-22-3265-desktop-aio	2017-06-29	7c0c8fab8b15d6de59936a3921f85d9e79f710c6c6db6459804b679d82760e26	-07:9f:37:c3:37:51:bf:5c:b3:3b:53:73:92:24:e6:c6
Dell	inspiron-17-5755-laptop	2016-09-02	19967c4eebd851b31936c8cab20f86008c7f065cf93217f6cc82350521cc640f	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Dell	inspiron-3656-desktop	2016-07-29	a0e12007dd08b6d9a22fcc6548d0562ea3a966b2030ea9d00c739971e02b6c9a	-4f:95:81:2e:a5:05:62:67:b4:46:66:d1:f7:5c:22:9d
Dell	vostro-20-3015-aio	2015-04-08	05b03dab647098c957cadd2a66ebb1401dc5dae51f267351c0d076c239d5856b	45:18:b4:22:4e:57:12:8b:44:18:25:a1:f4:5e:81:1d
Formelife	Studio Sys UPD	2021-02-08	a451ed9d6359fd109f495c75bab2678285265a72be64b3e5d0d5447a0e167cd5	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Fujitsu	AU47 M1	2020-04-07	d3715136d50fc486ef59fb4aee1d7f06552fdf98423809939538fe905a1aa0b3	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Fujitsu	PRIMERGY TX100 S3p	2019-06-26	bfadb1d20541d4c39857e7b295b7ad20ce81d393f014eae27565bc173c1880c0	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Fujitsu	PRIMERGY CX270 S2	2019-05-15	e44c2088ee54191192cc690787d74d8ddbfe3fc97c58fb2c42cf8a952784c94f	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Fujitsu	PRIMERGY CX420 S1 Chassis	2018-06-29	c27a0e267f18a89c8ba8aadd37786ef8fe18162b60b45fc209bf992b570837af	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Fujitsu	PRIMERGY RX100 S7p	2018-06-20	e71744d4e18cbee18a1fe381a8a83350487baa6cfbf3729d999f85d7b650610a	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	E152-ZE1 (rev. A00)	2024-06-18	a9638651a2475403924f124552dc199689a45d2e2e59e3dea2b223667dfb63de	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G152-Z12	2024-06-18	ad457250d51a0638880d9cf1df9dd029ab34b36265eda73c5459d8d0460ba3de	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G242-Z11	2024-06-18	2ab6af312a78886a13144814ce766a771604755f8dd303381658026304415280	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G242-Z12	2024-06-18	eef3fd99672410b85e6342c5757723d0d3ccecef9805237955baa20780de8b4f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G262-ZR0	2024-06-18	f21b8f836105cdb4051d8bb29302dcf86836b640bf048b24f3c76e930b513b32	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	G292-Z20 (rev. A00)	2024-06-18	62bb737d55f4caa082b7ea2aa6f8a59c8efdaf9d5ac5b158cbfb32a6cead8164	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G292-Z43	2024-06-18	1b6ff7d60400c7c21a5b28f947475e61abee187627c1ff12cddb25b1ce59ecb3	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G292-Z45	2024-06-18	18def9ce5aa6551c1d7e77e9f53e34701f77b89d6b32d41ea050cc94d52941e1	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G482-Z50	2024-06-18	b14d2e3fad16c97684a4ae947798bb3a67372441dd7252568f71fc86e98ae9f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G492-Z52	2024-06-18	062e3100bfbe635c66feed863141f7a6f2bfcf0b887a5b3d7ae31fb610d17cac	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H252-Z12 (rev. A02)	2024-06-18	ac416150a9752dc20107bef240e73c6054af4992348003429bfd97a7373f4f27	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H262-Z61	2024-06-18	340cc5c8f4468eb2d36b684dffbf139b4ac4504b5db3993c3c1b5145858c5131	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H262-Z6B	2024-06-18	0e761b6f3c7d3a1407addf499ff848c493a9d0b0197368cbe858bbc4fa5a4702	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H282-ZC0 (rev. A00)	2024-06-18	0b739af751913ea6ff42999069963dcf6a1bdd58a3de800ab721d9bdbd59bf0d	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MZ32-AR0 (rev. 3.x)	2024-06-18	a4102b19258804214beb838f61699a7623cc654341e6f60ad986dae805935c14	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MZ72-HB0 (rev. 3.x/4.x)	2024-06-18	e0a3837abd91821c4ad98687d2dc6456b7fcb05c8b672c48f242ffeabfa3e9b4	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MZ72-HB2 (rev. 3.x)	2024-06-18	7678e64f7728c059b228ddec74f0918f0544d5193f7b8efe0bf03e8f36c2f5c5	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R162-Z10	2024-06-18	122baff0bf1243b945a7eaa9ca55303469d624d6150d4da136d697878177f1a8	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R162-ZA2	2024-06-18	9d318d27111a3c5a2e3a6451103750d70dec9d6e9d048f7e98fcd60066b98aee	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R182-Z90 (rev. A00/B00/AT0)	2024-06-18	dbd77ee47e4bccbb2b8af2883765641e9d7c404937da2942637fa1b4b6d4d635	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R262-ZA2	2024-06-18	c7f73261e85bdc43932e49254cb8654ed2ce0945379592cecb081d51e5834289	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R282-Z97 (rev. A00)	2024-06-18	076310804e591d1c2d4ab1d53cff0866c04a4189e03e6964b528b8a94faa7991	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	S252-ZC0	2024-06-18	8927ee41096d71b75bbef2672e22f640a22ae3588f4f44786fff92c70b861885	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	ME03-CE0 (rev. 1.0)	2024-06-11	79700c28616b906f5534cf45d4582878a73f96eff24f1f894bd04b24c00eade8	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	ME03-PE0 (rev. 1.x)	2024-06-11	ac5ec67cafd72fd7f497c3759b0dcf359de8b7db6941120c0c69d5f3eeaa4bcbc	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	ME33-AR0 (rev. 1.0)	2024-06-11	8bdf9b526d2e9e65f23ded60745006c65678d184a258761666d3864432cc0cac	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R143-EG0-AAC1	2024-06-11	630321979d80b22e20ca5fc713b2e3e1a8d9ec9ecaa6e2f814193ab8471636aa	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R243-E30-AAC1	2024-06-11	ae9c0a6e84b0c2912eda99c2de4e95d45c0c8feb2a097e02832ae03c74796f50	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G191-H44	2024-05-27	28068e88e5041161f4485f958f49060d6a865e4beb0b53bafc8f3c5e5e3923b9	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G241-G40 (rev. 100)	2024-05-27	912834981a1de06dcdd4f8cfd11e7db46ac691e5ef20616d76d859e889c303be	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G291-2G0 (rev. 100)	2024-05-27	0dbbb711ff0879479dc30b9a7116fb94f093e0225b74916f6b79edae90d8fb2a	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G591-HS0	2024-05-27	bce2bb4589e9ba8bc8029514a887f3f3bb4ded3556bb5d77dc1a38bad564b435	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H231-G20 (rev. 100/A00)	2024-05-27	819cf98fc21e036b3ae7e6390ae09edcf6fc6c260b22bf6ede0852029ef2495b	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	H261-H61 (rev. 100)	2024-05-27	190d03dff0cfed20b38ae3270c8bb197b024765963dff6b7730d96bfebcbb24c	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H261-NO0	2024-05-27	7eab23785afd939c2abdf53e001e896c67216a6cc75b646d990fd92ae226748	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H281-PE0	2024-05-27	9f715f7b4128701de97332885c28547fe89ca4214de5af85623ab90670fdbbfff	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MD61-SC2 (rev. 1.x)	2024-05-27	98c90d7d56e82fcf28b362fbf659c3dfd3f987de96d997defe2ef2e78f33cecf	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MD71-HB0 (rev. 1.x)	2024-05-27	82bbbdeed52e95c3f19ad09cc8fff5ea17f9f5341fbef5f88fba478c24e9fd66	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MD71-HB1 (rev. 1.x)	2024-05-27	c6957244c7417f2ea28889e02d23b63091b6049b82263872ec3a952765becf9c	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MU71-SU0 (rev. 1.x)	2024-05-27	67c4f4ad83e151ebe6e61092bec3153ec269e7be1945dbba0c61091a345a885e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R161-340 (rev. 100/200)	2024-05-27	1bea20b7f9327d743487da2db53e5fb89ace6d22f56600b58918737418e716ee	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R281-3C1	2024-05-27	aef16fc11c0f6ddca64581dc5b42b9d6e4ab66807ae7c5a30ccfd8f6774a2b18	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R281-3C2	2024-05-27	5077c5d90bce52e6e22371dd64910f30aad69c42aaf9a144165682fffe23c3e0	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	T181-G20 (rev. 1.0)	2024-05-27	c2b46f65550950fb75d45f5bff54bbed8d4877d803a9688739abd47909fc5f6e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MC13-LE0 (rev. 1.x/3.x)	2024-05-21	a1f593c61f035734a87dddb547a18a52d641785c40cfd320b0a0802be57a1e5	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R123-C00	2024-05-21	ddce5a86b35fcf3fe494169bd1834b1f40f24b1a4938e5239bba011dfb981949	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R133-C10 (rev. AAG1)	2024-05-21	a09c15eaf24a7804b16fa6fc8e4d16c8ebbc850d070439b2c1ead835f4626dc0	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G293-Z23	2024-05-20	36b879d3be098143f10fd76db48424f3c3470ffffbe2f828ec7462bd8ec73dcf	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G293-Z42 (rev. IAP1)	2024-05-20	b98e94dc0b78131fe59ca6a9c0a142037d412e2ce5fcd9b9d0d6d10f102b1d5fe	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G363-ZR0	2024-05-20	b2bdfb3a454065b92210cf8a11ef836b45b1db8679d31b45e65a71d1f5efdee8	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G493-ZB4 (rev. AAP1)	2024-05-20	930761233953091f36c6f92e069229f7dd6c86555c03315e1cf51f9fd349ac79	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G593-ZD1 (rev. AAX1)	2024-05-20	c564d83ca92af69a296c473cf748d2a6062883164794856c8be429a652e421fe	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G593-ZD2 (rev. AAX1)	2024-05-20	74e19d515a7d2d4644f026bd8ea3ee5035b1d325189d9ff2184892a62a7cddc2	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G593-ZX1 (rev. AAX1)	2024-05-20	637be0a8baa2b2a07788add89178c5ff71b837b0d7313d31252293e87a8c3734	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	H223-Z10 (rev. AAP1)	2024-05-20	3d2868fe9d5c6ff7e0397d929f170cc6ff006c5d1b5f7bd99d937de8f93dbcd5	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	H233-Z80	2024-05-20	5bcc229773a51f96a3904ab181bc621231f881b88a9f59b9427555d9bc868045	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	H253-Z10	2024-05-20	4978fa8b487795206594ef340a6c846814e02e248aaf6d6d22e21e58c194fc00	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	H273-Z80	2024-05-20	7d216a628dc15d65ad64ee6535a8c190260c9616945108237dab43b3fb1ed549	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MZ33-AR0 (rev. 1.x)	2024-05-20	2c185f2a4900213d87796a8f1b7ba719d3506961c3587cc6b6c39ebae2067e93	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MZ33-CP0 (rev. 1.x)	2024-05-20	13b00bbbbe69eb17f726a086841770b17b9b5b02c903d165e5dcbcb371b87e4d6	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MZ73-LM0 (rev. 2.x)	2024-05-20	140cae90bff7b80c41f0fc69c6439ec9ef3e7b54e408a29dcb9b41bcdff07bb3d	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MZ73-LM1 (rev. 1.x)	2024-05-20	36d2df2564747908c8f8b28df00ea5504783b9308fc76899d0a5ac1b57f43361	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R163-Z35 (rev. AAC1)	2024-05-20	6e276e4fdfd0ddecd0c1df49718595d0c4bcb28850897215b88fa01c239b62d	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R183-Z90 (rev. LAD1)	2024-05-20	9bb0e8c4030538d2b820b333ffa1b211a7930953f30bc9ba206eb26adfa45741	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	R183-Z93 (rev. AAV1)	2024-05-20	44c75c03ddb8689b7a5df96689d730f002367d428da0982bf089c8f6909a75e	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R263-Z35 (rev. AAF1)	2024-05-20	4f59fb01703b0e6cd5140683e9eb6d98c452b3acb64ab642004276daf49e1ace	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R283-Z93	2024-05-20	59c838f97265422664d3508ad13e370351e9f482983d942dd7fbf33bbbf00587	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R283-Z97	2024-05-20	42329f479e5572eadd01b94fa8f3fae16b7fb4452ac2111f886855e4f52597b	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R283-ZF0 (rev. IAL1)	2024-05-20	3b999a0a4b3a7336597e7373e3317dd29b91f5510fdcc8323988d1edab6c23a	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	TO25-Z12 (rev. AA01)	2024-05-20	920c4d1c705e8b80e94b19f2c690d1fa4f25f0f6954db6209ed5118d7927fc32	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	H223-V10	2024-05-16	c9387dfa08afff4cd1f875331c6eb24ac6758d608976603c7398c039dde35890	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	H263-V60	2024-05-16	76f7ae620a91ff5e8590a2f22f59018e613aeb12b626b886d6ce2f5e4276fce9	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	H263-V11	2024-05-15	57be6485a091b1f60afa9a2af34cff051e293d03696c04ba578f97ac38a34d4f	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	H263-V60 (rev. AAW1)	2024-05-15	2221d582286ebe04101fc5bd7e353e3f8826c86f948defeb8ac265b8c7ceb8d9	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	E162-220	2024-05-13	0c8eb9d218ca1706bd15989efc2915e792918b52cdcac38a4845913631f6cccd	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G262-IR0	2024-05-13	ebf41cbd3da1701755a788922944f1ec7e13aa8396a03611cef2e3940da4cc20	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G292-280	2024-05-13	5caad5c1ff5d9518017d64a2dc8cb2a83e294520ba6460c0a1b14212688f39a4	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G492-ID0 (rev. 100)	2024-05-13	c2902ae30064150ea9236e92b819a2cf96c47ad73f0439233471b89bb04cc13a	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H252-3C0 (rev. 100)	2024-05-13	436d56f15a1373c341638cc0edd950866bd519e0cb1e0de07ab7df2c59fba5d1	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H262-PC0 (rev. 100)	2024-05-13	83eeeab2bc322fa12b1ab2be69ba64ade98d999f8e1118ba1d6957c45b52a6c7	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H262-PC1 (rev. 100)	2024-05-13	083289beeb6b2d85285084059994d0ae833833cc7284428b6eea303099d99090	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H262-PC2	2024-05-13	db38dafec56ac3bb8948390f699fddf5a3f3f2b33d0a696d41c803c059a5b940	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MD72-HB0 (rev. 1.x/2.0)	2024-05-13	eff883c442f1805faa24a44e645413d9c9d3d95e6e0bb5c227124f7eac8187b6	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MD72-HB1 (rev. 1.x)	2024-05-13	43eacb8f8ffe499f4d0715cf6f798cd81351474abce0e410ecfeed7071740e3	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MD72-HB2 (rev. 1.x)	2024-05-13	ede862fa7c647cdd18ab5b2cc90aeec53c35e7f2a9e8d3cc9bd4f1f4e7837b30	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MD72-HB3 (rev. 1.x)	2024-05-13	5ffc9128e64f5a30a78f594923301a6110a8a97c236665f4d4ca7ea28d8a8d21	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MU72-SU0 (rev. 1.x/2.x)	2024-05-13	776719490d81637a1604081fa3e9ea7fc975020cbb45103bbe4efc70ed69c6e6	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MU92-TU0 (rev. 1.x)	2024-05-13	d6c0481e584911e1758040140b89593d1839956ef379a6d45d5ac37d0666b866	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MU92-TU1 (rev. 1.x/2.x)	2024-05-13	80073632c479a5522a64e14cd9bdb4cb12c3b86eb8eee5c36f63c40c96865334	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R182-34A	2024-05-13	da898f000b47ebe799f88868276a9f9a0744ae283480c70b4506f17218696a52	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R182-NA0	2024-05-13	0b851b25b7dfd2d50e710016c21c06a5aab78fcd64597ca631669b7e6344db6d	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R182-NC0	2024-05-13	75adec4e87cb200578f3899c3bd7435bbdadcc4941e5edcb5a3fe3055a8ad190	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R282-G30	2024-05-13	ee788077e078691ba0f587f2f9f044667b3463f794d8f38fa0c96e8b68550703	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G493-ZB1 (rev. AAP1)	2024-04-02	64c336027bad7ec398c64d31ec444c47ec0d0b60eaf89202547967cc1b21fed3	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MZ33-AR0 (rev. 1.0)	2024-04-02	4270e08e2fca65beb36f8adaf338c4b94d248a98eb3d205d0fcb6a1cd2d6ca6e	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	MZ73-LM0 (rev. 2.0)	2024-04-02	29ed1fb8fd445c86fb30ef02e78db0b5be5213ece5edebf5f9702daaa94f5ed2	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MZ73-LM1 (rev. 1.0)	2024-04-02	5be6bd89d0e644714c6c98502efcb6e5b90fbdf3101f82cd821d04d2fb11e60f	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R263-Z34 (rev. AAH1)	2024-04-02	00089e4dbac3fcc36ba347ac7d7f9067722601a9a55c2360bf9cae439a52c010	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R263-Z35 (rev. AAL1)	2024-04-02	ea3e4c728b066bf6827adb0497ec6e32ab66c546c4ca89fca8f3113c3d74e950	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	GA-H110M-DS2 (rev. 1.0/1.1/1.2)	2024-03-26	5e55411efbcff6e593a2de57f46b6040324f35c1ed14f902333a71b6cea38930	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	E251-U70 (rev. 100)	2024-03-20	6c404dfcb9550bf9080bb679ccfba607c96b149772c345ddeab0f881fdd16f8b	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G293-Z40	2024-03-12	84c011953dcd5981156d4d5488c82f53ee73cc839d3359004d491b0f1fbf2808	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G493-ZB0 (rev. AAP1)	2024-03-12	c4dca3104af399295b160bd3ad7d01d38f9dc86e7143dceae68403480d7c19cc	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R283-Z94	2024-03-12	47da1b96a4296aa07edf9e4f54df7dc663e8c8134477ee8718319667073a5d7f	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R283-ZF0 (rev. AAL1)	2024-03-12	0f77013fe1a7795b311828614ab371df89c88dd7ddd165d17130422289838731	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MX34-BS0 (rev. 1.x)	2024-03-08	c5b7f646ddc82ab730c91e13b52d86d9fa3c28d0b0cd15699f0a9b77509d7c4	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R123-X00 (rev. AA01)	2024-03-08	876f82d1e8632fff9b24a04be60fb1486a1e4eefb8b20183580874680fc06150	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R162-ZA1	2024-03-06	8567d8f2fd8a32c33c81aae33ef21e34f818159199f0beed6c10dd6e2283351f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G242-Z10	2024-02-27	c7e9eff716b9e7000c89692637c58014ee0be37d7dd39a0c2ae4ecba82e38fe	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MC12-LE0 (rev. 1.x)	2024-02-27	8e37407821e4af774debc51d6dd492c11fe6652ebfd25febae7a603a7ef69822	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MW34-SP0 (rev. 1.0)	2024-02-27	add3e41160a5effcd5a6dbfcd45072059e02f5a6fa39042fdbf36ae8193067f	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	E133-C10	2024-02-26	2d5900b5a13292df17073793a00393ea8e60a645104ebf8d95c5407674421c76	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	E163-Z30	2024-02-26	1ecbdd2c9fdb6e9bc4f2e48b5b3e1651977a39eddc6480cc4888462636648f38	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MC62-G41 (rev. 1.0)	2024-02-26	dc4153ee0a3333ab789383cef8b0d9760b9f416138a093cd3357370261babf4e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MX33-BS0 (rev. 1.x)	2024-02-21	a0e138096681313a3923eefa3bd3480e6416c73d627d3888b36ce7bb6b2b989f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MC13-LE0 (rev. 1.x)	2024-02-06	b9f880e1df8c0a237dd9cf607e19287817eb75f59057e8df89ade763ca7b6812	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R263-Z33 (rev. AAL1)	2024-02-02	d18f17a61f21b0b96542a3efd2a543cf87b434d86055e48aac951f09c53e0e3	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R133-X13 (rev. AAB1)	2024-01-29	3e3fbdde80c01e9755408922f67ad04834a61cb5e519ab010b151b68772a9784	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	B760M D2HX LITE SI (rev. 1.0)	2024-01-17	641b9c056a8fecdc3a572db60e0f0b0fed7722fe9cf377bc4b6ee9208423107	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	GB-BER7-7840	2024-01-17	f63845840d8dabf49f4a1137c4b1558257748fc26812bd693de92ed0257362ec	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R163-Z32 (rev. AAG1)	2024-01-16	7fd571d3ff56fa697a130f06d98ae3d2568e4e3d5848cc0966f4e00617801cf2	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MD72-HB2 (rev. 1.x/2.x)	2024-01-12	e01af875c3100fa3d72d014aaf93417317a1a4a4e69c4a28c216c73dfa5e041f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GA-H310MSTX-HD3	2024-01-11	094ba53bd3f96434153ed4c426a2c9f8b62ccb2b7ff60932061f9fa84a9309e	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	GA-H310TN-CM	2024-01-11	9f5d955a2b3e33b9ba93e98d56a3ce4c997c4234161a4637aa88eda81cfc743a	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	GA-H310TN-R2 (rev. 1.0)	2024-01-11	5ad827acb383f51e80cfd4605f8b02186b680f61ba0129e6c054af896dbe6d48	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	H310N	2024-01-11	de983965452c5d6dbf7e4137ef30782337efded699beb2db1cb1cfab2a9cdb9	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	R143-E30 (rev. AAB1)	2024-01-10	a0ed7595a6c1b6e26d1e930ca3a8c1c0dd619db049ef112fa653b8bf9b026bda	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	TO25-Z11	2024-01-04	c70331be155ee7c048b0296e15de195158c1215b1ddb31fb842018467c5857d1	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G293-S46 (rev. AAM1)	2024-01-02	4151a030854ddb555d497a9d2626723d662a9c81e86b39e4e2c02c209ebabbc	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R163-S35 (rev. AAH1)	2024-01-02	f8c33896586db20586273c8378d4fd18e49a4db7b6ac15333eb67536536c40da	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R283-S94	2024-01-02	70ed5ca85b768ef6f9bb36baa9596d07fb259c775b457464c138a7494f7340a2	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	TO25-S11 (rev. AA01)	2024-01-02	9ad9beef2a8253dc72e6bdd37d76bd54fcae482fbd3308904d87dfaa4df281e2	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G482-Z54	2023-12-21	f446b6d7d932602558e4abdbea9a9b826a12d27c535ca6c2d0bafa5e34ec3864	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R183-S90 (rev. LAD1)	2023-12-21	9cee49e6b444421c55798f7ce7bf7a1eebc6d6f75319c2bcb39bd11b4075c71a	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	MX34-BS0 (rev. 1.0)	2023-12-20	5380cc7bc3d652f0d0316dd3225fb45f1bb054e9c568b9c8e8bf9591306cdbaf	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G293-S45	2023-12-19	77b27203150cbb0b885df35e361b1a193163316e3f315be4e7967312b097aedd	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R163-S30 (rev. AAB1)	2023-12-18	e0c5fec105a86f8b7ffa77bd983d3ed0b54cbc65542e0ffd9aae29cfc2d8d8e	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R133-X11 (rev. AAG1)	2023-11-29	e8f28f55ed2fb648c7237e216e5c377da45e9f6d6a746605515002aaf502ae4c	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	E283-Z91 (rev. AAV1)	2023-11-28	1fee6620306388e1d23dba7889b858bd56a091cf04ee68db32639e14d9b87a14	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R143-EG0 (rev. AAC1)	2023-11-20	672102a1648ac9839230ff8c818edc737b01f9e2250a0db8ae2441b257f5d7	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	GB-BEi3-1220 (rev. 1.0)	2023-11-02	39ea2372c5af03dacf3a4112895e5bb59489497c23828e38acd4b4fec35df970	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	GB-BEi5-1240 (rev. 1.0)	2023-11-02	2d34f17d147062c8aa223fd2e528b8c10c0879e8ee2d6064607f45e93908a935	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	GB-BEi7-1260 (rev. 1.0)	2023-11-02	dc45a2e1fd0112f5deac4678b7b093d4e233256af8e492104658c38a5ad426da	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	E283-S90 (rev. AAD1)	2023-10-09	059d906408ac5c7daa81504d9e9057023d7686c9383faa48ef6f195d4b32d997	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G493-SB0	2023-10-09	394bf746dc6183441ea4d034769683c92eb999195fe6ab6e1fbf10c4cd1aed32	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	H263-S62	2023-10-08	d733c74eeca529ae54b842ea757213532781db14b38c9222f4eb34be5ac7e1b8	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R163-SG0 (rev. AAC1)	2023-10-08	35ec23b26774c9030a1deca1b66837805aa7bedd6518d5be506681f2296b5e17	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	S453-S70	2023-10-08	9fb2a464f53ad26c1bab90ee2437c0c265ef6d0faf419af58baca323c6156b7a	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	E163-S30 (rev. AAB1)	2023-10-05	a7ac0837b77d7a91edb4e5fbfde127eafe1601e858a6312af9e555646de46480	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G293-Z20	2023-10-03	abe7715141d75d5817b2456105d037d116c441796c7a373dbf3307412e111bf5	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	TO15-Z40	2023-10-02	b0766c740aceae7f71543fb22d3c757640e714e52f32a17a3d42f9d16d39383	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	E133-C10 (rev. AAA1)	2023-09-28	2af044c4474abc534ec6da84e1e6415386421dbc897ed2946efe131840de8161	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R271-Z00 (rev. B00)	2023-09-22	dcff49fc24b1b8cf02fce97a15b0bc8bb19c6979df21136007c677ac3b9023c7	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	ME03-PE0 (rev. 1.0)	2023-09-11	2bf55cd3046c8fb548063466ea9eb0802c4401f3c04a13f9ef693fe7c23570ef	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	GA-H110M-DS2 (rev. 1.3)	2023-08-24	8448a4dad1df740fb0882eb8533c40a2227e385f9f2f07a546c1d2e6020b7cbf	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-H	2023-08-24	0dc9159572d38d754e168d1290219dc558cc72e67e8fa72727ddd43a5ad187e7	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	E152-ZE0	2023-08-18	83d24271a7b1b9bba7070c128edcc8b4d6a5e7c96caa920baf5c014efbf6775d	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	R282-Z93 (rev. A00)	2023-08-18	255ffd2b1161bb8a53626ad3920c40eb5f0f63cb1d5710969abf31797f8771de	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R162-ZA0 (rev. A00)	2023-08-17	85f9cdc44ed670c411f0892b769e91567f9a81bcdeb92861fcf6e2ffc7773f9c	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	S453-Z30	2023-08-17	92c197c09f8aaa2e20427f649cacd1484ef7a345040f54eeb3135745b6f671dd	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G262-Z00	2023-08-16	efc056c3caa782e178b7ade2333316ef39a0a6e17157c68a61927b3a045061e9	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H262-Z6A	2023-08-16	2ac696517ae7da9f3efe81af66b89b5f7b24beb6e09aca06e61e454915070a3b	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MZ72-HB0 (rev. 3.0/4.0)	2023-08-16	2ad038a3b127e95df1fc8fa61bafb96a113fe0093d9ecee66db9ece973c5a257	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MZ72-HB2 (rev. 3.0)	2023-08-16	225cea866d8c5843d32d6edc97764b69b05707e47c9537e6e6e7f4ac06775816	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G152-Z12 (rev. 200)	2023-08-14	e7969888310f2eceb73544fd8108eda95c1a3ea62ff57da93c643bc55b898f50	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G292-Z40	2023-08-14	d31512a9a475071b6e14a03aed7c5286aa0c622925d7a840bdee7158a7d9583c	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H242-Z10 (rev. A00)	2023-08-14	1096dfa8e4e5f5d2410eacac73c51bd1b946bc4d2f110a44e8c33f53d0182eb5	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R152-Z30	2023-08-14	5297e4a26fd8ed927abcb2438a5ac2a4e35e770d06d272ed77b3d847bebb11fb	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BSi3-6100 (rev. 1.0)	2023-07-18	e81cd2760e4d5090b1d0da86309ba993256d88a4abb8065ce83266bcf4f0ca34	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	E283-Z90	2023-07-12	40d4956a427564b83b0c1a86f1c32510feeb5282eccfb211bd29f0a0a7767c4	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R163-Z30 (rev. AAB1)	2023-06-21	58a47d7e153b03ce005686aac24bfe31f405a7cc4670b826ccc775a839de7ee1	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	G262-IR0 (rev. 100)	2023-06-16	43dd7e97fc6fd1fc0ac1ef601c00eed9ec9b5d5325243fb8c6f0ae3517fce89b	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G292-280 (rev. 100)	2023-06-16	5b7eee5f852ce1424dfd476d8713650e528fa359f19e551b7adb9b6a12ad467e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G492-H80	2023-06-16	e79fefca976e762f76a8ce36494928dc2ba039de02b69659a87b5245cb27ac2f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H262-NO0	2023-06-16	d04141fdfff53843c10ef247e885ad9fb62ffc58c89580718ecd2b102a590f30	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H262-NO1	2023-06-16	ca65772cdd5fef0d287957d5a6e308fa1126b9b40a2cd701e1190e852ce0bfd2	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R182-340 (rev. 100)	2023-06-16	ade7666d9e200c0929260025880128674b63349911f1d03857a42cf753f10b80	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G291-280	2023-06-15	6917b15d532856e0c0f7cbfc3501f4d5c273616046d94695e01ce07303f6011f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G481-H80 (rev. 100)	2023-06-15	53a8edb12be4b79c231d3f950e20343f20f3727a6544504259639fa6506f2457	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H231-H60 (rev. 100/A00)	2023-06-15	56289ef76755acc7f4e843b3ee0f29ec8f063f113f640b157d095d18a866d874	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R181-2A0 (rev. 100)	2023-06-15	01c95a23c9bfeff78ab2b6d77ca33e6a967cf624d1afb5fad393776c79a25920	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	S251-300 (rev. 100)	2023-06-15	303797b38020f7b91381f887954f819112509c4b855ebd75c7a31d227acf1cc	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	S451-3R0	2023-06-15	c9a2e7d55dcf6e3f7537515d2c6cb0e36770a5fbea7a01dafa4a90359ade90eb	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	WRX80-SU8-IPMI (rev. 1.0)	2023-06-08	249510667c5c37bd25d731655d7dbf18c5fc2d8d377c0c2326810cda6d9c0f46	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R292-4S0	2023-06-06	1dcce1bfce8c75c3fd8a307ba7f6d0231504095e1c4e6bf2166a4cf75f29cc	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R283-Z93 (rev. AAF1)	2023-03-24	dcb8c9ec0cdddcf94852ac34e952a349af1ca970d825dc239075286875a9257d	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	GB-BNE3HG4-950 (rev. 1.0)	2023-03-13	ed3834eedb770cbb44be9357c5b05d9800ec9577ba3eb6faa3c47460d78814ee	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	R161-R12	2023-02-24	523e9d1bf5710144e36f9535141955dcf9a3d075fff092f6b4d1e12ee2eda562	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	GB-BXBT-2807	2023-01-30	16f990d85b5a42e9b762a08f69614b0c6e3f5c1236364ca38efe92a5dd729bb4	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MB12-CE0 (rev. 100)	2022-12-13	bcf637c0c5be2018d76681b66661d1e6f061c2e1366124f4ef8754c074f8a95c	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	R263-Z30 (rev. AAC1)	2022-11-30	92780ca87316f207f58c61f65bc8f702fbb2881688d9819dbe8ebbbbed6e1f67	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Gigabyte	TO23-H60	2022-10-24	955038954a0d1463be658fe518b6006f9fde166b67e9007f3befb9cfa62e5da9	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BRR7-4700	2022-09-16	a462c1a73072f541b6719e4cdee351d44a7cb3593dabbc6809b5b387d909eee5	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BRR7-4800	2022-09-16	424e8b46bd3feec4aae4ec33eae1ca8658526eeb66e121adb244d3c322dd005d	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BRR3-4300 (rev. 1.0)	2022-09-13	5cc12fd686928c97fa7bfda17250579adc4e7bd11e46e88650de5ebca6ed03c	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BRR5-4500 (rev. 1.0)	2022-09-13	6ea44803e9b188161126374021e9d845136edd676d33fc80e5f9348b8d577a87	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	W771-Z00 (rev. 100)	2022-09-13	d07d7094aa0dbdb896f8d3dceb093ea8c1d72ee0009472ece73190d2071aee6e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MB51-PS0 (rev. 1.0)	2022-08-05	372c9a6f86f60d7cef6ae2d2ee7ca0d55df998ba0a47468668c6758b3d3db725	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	X299 UD4 Pro (rev. 1.0)	2022-06-22	ca8a556421eb318b0e5901085e97c448f1646a1636e34ec6e4d7f64a3d61f601	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G492-ZD2 (rev. A00)	2022-06-21	c8ab653dc8a40406c0a8a4d71b56059a2f9b7c7ab9e883290acd071941c7bc25	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MW22-SE0 (rev. 1.0)	2022-06-21	d369b68d0c38afedcbb0eeb82f2d06d486e9c0ce212ebe3b0d9f8dfcdbbbf5b0	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MX32-4L0 (rev. 1.0)	2022-06-21	78ce8406e3b09a3450d41ba11c1dae91456f25c796441dabb52c7b7e261b3a69	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MW32-SPO (rev. 1.0)	2022-06-20	0cd64d233ea4db6db2a90962d2888f4e5b967fbb24fa944ccbbfc2c02d5a358a	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MX32-BS0 (rev. 1.0)	2022-06-20	40234a98894a9855db1a921ffe9d272caa1e5702dcd14afc82f6a91753fd460	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BER3-5300	2022-06-16	a3ab1a934f5806b5472f13257771924e3fcbaed289b2d6a860ec2fbbfd2d0c11	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BER3-5400	2022-06-16	06879fa2383284b0222247992f7d359bf5d0ddcebfcdd5b42a20ee5f46a8473f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BER5-5500 (rev. 1.0)	2022-06-16	68f88269c87ecb16f9b7d9269005ce505a3498b9e3440054742481a2254d5aea	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BER5-5600	2022-06-16	d98134626baccb58d0d97613efae6d504b112a4f8d8849e2599ceecf55f7fad	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BER7-5700	2022-06-16	ec439231fb2d3491a63b173bda078a128bf02b19262b3549f3a799992442d9e7	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BER7-5800	2022-06-16	7704838038c24fa47fadd54f19c5911fa39823ecfb5f451db59271112a07e777	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BMCE-4500C	2022-06-16	43cce322b194b9be7bedb247098e8b691878f238b14199cfba11af4422b3464d	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BMCE-5105	2022-06-16	c412ba0cc85278e93f349b9fae6011982f23f8f3a7b6539a36d90b551ae1006f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BMPD-6005	2022-06-16	6f14b4087af44921d294462fb0d65259f18af0cc23b7ab1c5b87773b9c3c13e4	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BRi3-10110 (rev. 1.0)	2022-06-16	d6626703c5940d244a87f2967f0c54f4a5a7b53597dd92a0b561f28a2f9a9161	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BRi7-10510 (rev. 1.0)	2022-06-16	af98c4cea319d387751cb356a28390fa630a1b2f66920a3202b37e0acb861ade	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MF51-ES1 (rev. 1.0)	2022-06-14	dbe505cc1f3a4135628b7e22c7fddb99bf3ee1d46f82a84219e8cb0905c20ff2	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MF51-ES0 (rev. 1.0)	2022-06-13	d27437e85db58b607bc173e844b31dbfb8b949ea3c225e13377ae942572c4611	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MF51-ES2 (rev. 1.0)	2022-05-24	9bd110e7a5a1e1cdd77af3702309d98f748cdec6d25a5e76c04f63417e2e6a8d	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G492-Z50 (rev. A00)	2022-04-26	0b2bd8851706081fb9e310e5f4a7a97c3a0bb32eb7167a609e602ba6ceec1ea89	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	GA-J1800M-D3P (rev. 1.x)	2022-03-07	19c85b8fbc25322544c775c9fdcee793a563d51b32ede6b29c02248e0813f42b	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BSRE-1505 (rev. 1.0)	2022-02-14	2f18902d7afb8d900b6552c2d7a86760f05c4698c1018053b2fad97f6ab51f7	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BSi3-1115G4 (rev. 1.0)	2022-02-14	6f6c034629c0d8df05227f4e7d85d02d8fa52d7fda0940fd4f80f62a23be06c8	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BSi5-1135G7	2022-02-14	baddfacc85e4aa97915493c4f66cde6002104bfc10ecfa3839c4fc6e32597953	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BSi7-1165G7	2022-02-14	b191f4293202c488ba673c288bb5edbf506a9835a508ec38fa705797738c918	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GA-H110M-S2PH	2022-01-13	a5013d7b2208a6c2d1ea75bbef06711be676430321f4b275140049d6fd53f8df	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-S2PV	2022-01-10	60d70e509fc3f7c1da701e5195218f20e297c11d2dd4f0327ea4d25732c120d0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G292-Z20 (rev. 100)	2021-12-21	e0ae28d4aca350a31f66402f4b0f46e05e4aaf77adfc813179a7df20c8f4b148	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	W331-Z00 (rev. 100)	2021-12-13	4f7c60d69e3c374da221c2ab2d2393794965f2e0e1cf296f5a64d4d77299089e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	X299 AORUS Gaming	2021-12-06	c5534cc441ef64739b9609ed3160f296cefda8faaae992448baedb01e9310be7	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 AORUS Gaming 3	2021-12-06	82f181dfcdb973537274d8fbf4ad83d60ba8b7315bf99def64780a8c29c6a843	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 AORUS Gaming 3 Pro	2021-12-06	810a53fa70ab5b27f2dbe92948b79638dc87fe6015f94c41501562a47805e28f	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 AORUS Gaming 7 (rev. 1.0)	2021-12-06	ee03798b5db2710360c33566b2e61b46bc664ff8a25b257bbfb620c332d70f2b	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 AORUS Gaming 7 Pro (rev. 1.0)	2021-12-06	6ca7152161d4d3a65a2d4fa707a3784811bbb7507332f1c82662456f5f76b5a5	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 AORUS Gaming 9 (rev. 1.0)	2021-12-06	14d6cfb20110768c3da503050dd9222a2514aec0ca49f2c08e64bf6595b0cd2	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 AORUS MASTER	2021-12-06	326280954738ecffd23930791fec6dc0ba2b9774c85886b98d33723974c3427d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 AORUS Ultra Gaming (rev. 1.0)	2021-12-06	91933d348054953096135089baa7b6ca61dc43e9fc25dff45c9fb4dbf9e8d606	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 AORUS Ultra Gaming Pro (rev. 1.0)	2021-12-06	22869435dede4b52f75a6b82266b67f8930857829185f97bd322c3a72a8899e1	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 DESIGNARE EX (rev. 1.0)	2021-12-06	0a1aa3edaeb6b389a08cded1ce036ea9178527389ca1549442a35f8b1b2bcd6f6	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 UD4 (rev. 1.0)	2021-12-06	3716034ddd789a3e8e1c688a477e4735f228bc3acfa18b63e719d7cd1e8fedfb	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299 UD4 EX (rev. 1.0)	2021-12-06	6fbe2e27bf4b4543e39c88a4702f487b15d02a47b04e006759cfb6432d82fa0b	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	X299-WU8	2021-12-06	d15d9bd6d7980d27bb56848643aecef336c8ff0a695e155071b7dafb1f75d08c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	H261-Z60	2021-12-03	826f711b5accbc542c3e33d607f1dd10edfb3486772975f204aa2de43bdb52fb	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MZ71-CE0 (rev. 3.x/4.x)	2021-12-03	c0c4215e8207d397914a56edf50428f01ad3676c23630ef7b8c06cf36e45a7e1	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G292-Z40 (rev. 100)	2021-10-19	fcbed542b232be01a0ed2d52dcd3dddc101fafed3da9f3e3aa6b17b652e640f4	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G182-C20	2021-10-12	e133210fdecf2d57cde25b0bc706437210318e37655eb22a97000bf27a02c177	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R162-ZA0 (rev. 100)	2021-08-02	03e23d40902c4e68730e74ddadcc716f46032774001e1b6bc606c5294d4bacf8	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MZ72-HB0 (rev. 1.x)	2021-07-30	390cd14f2be9ff14cdcc90a9e705cc017bb2535e66b93859eddc233425998937	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G221-Z30	2021-07-12	8e8b934cc0bd3127262a9e52fac754d64abe27c09902a78accec81c0daf883f77	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G291-Z20 (rev. A00)	2021-07-12	8d49dfb69b420390cf13ff8f3a3b3ab88e5dcd46a182c4ac5be9868bc6278c35	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MZ71-CE0 (rev. 1.x)	2021-07-12	d3b797002d243cbed1182569ffc6b5e5f6243e59ee27bbabae7362fa80be6e91	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	R181-Z90	2021-07-12	24be564cb337350bd9cbf409cd95f29b760e1ff872f99b27379c40b533e9f2e6	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R271-Z00 (rev. A00)	2021-07-12	99f913a3f88561d7163bb1ed79380dd346897e577315eef71695aeb861e82579	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	T181-Z70 (rev. A00)	2021-07-12	e42a49d2674808c57b781e8b3d78613a143ba9797d1a856ccd2a62302a49520e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BRi7-10710 (rev. 1.0)	2021-07-02	14c74b9b80e71d3302c13aea0dfea3560e1452a55c698c20e457c5b495154443	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BRi5-10210(E)	2021-06-29	56430f2f4f9aef4e50f503dc8397fdb20b005bf38a8b9029c43e3eed56c39229	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G492-ZD0	2021-06-26	bacd1c945c9ff1ecea3e29039ad8b742c6d040e5792bb45008c1b7f664fb36bb	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G292-Z46	2021-06-17	31aa7ba19f6edb9472a3da22793803c265a0cb0b7cd7979db56251c37edcfe5f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R282-Z90 (rev. A00)	2021-06-11	8cc6129ba23848fbd65b91a9b70999aad19d3b7a6d168066cbe4a0b759fc5a5c	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R282-Z96 (rev. 100)	2021-04-28	605db3a5c91d915929488803446e5a51dda16d661e76840b707474d2df79069	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G482-Z50 (rev. 100)	2021-04-26	9b0c2aaaef88b38db18e4efd44b2582c8401f9a17f2c54d0e1f07d2c94a9a5f4	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GA-H61M-S	2021-03-30	5fb07e319cf6d523a488d879e7eeef3321e90fbee049efb642b34ad2a32611b8	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	G492-ZD0 (rev. 100)	2021-03-05	25555956322c0eaecf58fd759ed9b0b7857f9dd149b02de55e2f5eedb291117b	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	W281-G40	2021-02-18	f7c504d3d3907aa4c7f70ca1fbed7e73426eb987b9c5e2f6b31d42e801af1	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MW51-HP0 (rev. 1.x)	2021-01-08	1190d15905ff8656d2d0601c388df633b1646fd585de4fe871fdf93fc23d35a0	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G482-Z53	2020-12-24	f5f61e3f93c7f6615cfdc26efce6a83b3188d697e2243643d08d10dfa9de8afb	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G482-Z54 (rev. 100)	2020-12-23	0fe0c762e396660fb30aeddcf5a5928af864eb44399271ed975913f36e46190e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BXi5-4570R	2020-11-17	3353c109a69e6fdd86adbec899e2669cce724bc35db33a86fb0bf1c81a508c2c	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	C621 AORUS XTREME (rev. 1.0)	2020-10-27	7edc3eecd5d5ed515e06f8130d875fcae07cb0c7bfaa2e4cd8d86862e5ecc256	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MJ11-EC0 (rev. 1.2)	2020-10-14	3631995d059e336863527f1511894bdfc61361bc0691a430b3896fb94746aded	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GA-E6010N (rev. 1.0)	2020-09-11	c9c8f182cf3b058d12bddb039d8a3f3686d1c325c9b2719ec5fc8644e066274a	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BACE-3000	2020-08-26	2da499751e8a5446ac8445cee5b95f6bf75ded5c8ec6738eb67f5c4ac2081c32	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G291-Z20 (rev. 100)	2020-08-24	6d6107f0d094fab41eaf6073089de8a0b24bb7a66c5851f534a8f1d26812c3d2	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H261-Z60 (rev. 100)	2020-08-24	edd3eccfbbc2ef2ac40e723697f67a346fca062ddd6679c5ff8cfbb91d3b6afb	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R181-Z90 (rev. 100)	2020-08-24	575fc48c70ea9ee40f8016ea2328ebe790e7e556333a95b9b511be466047f668	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	H261-T60 (rev. 100)	2020-08-20	6b636c9fc0ec84737f2238365e71c23e9227695cd5ad52bf40dbe8290920fb60	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BSi7HT-6500	2020-08-12	e9bc71596a97741893377b2c52a13b5b2ff0a7b6f985af40725e0755d2c537c8	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	C621-SD8	2020-07-30	d6ad23c1fab3f0a2babb23e7907385e25a06801c2edd50d108e5b08f923855a8	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	C621-SU8 (rev. 1.0)	2020-07-30	b9017e90f6c47a9d9560cfd92206c4b2e624cd91cd7f0680fb75dd972ef9582d	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BSRE-1605 (rev. 1.0)	2020-07-29	d72f64d5a25b9088f7fff456d3783c2fb0e7926cd4de6469c6c3f57690830907	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GA-Z170X-Gaming G1 (rev. 1.0)	2020-07-22	0455dd8b57341d5667d4c4dd71767321c3f72770f84db4e46f93d31e50b376a7	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	C621-WD12-IPMI (rev. 1.0)	2020-07-21	0215ce75b3629651d0c64b0b241095b58f0af921cec3022c524d531c22f1385e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	C621-WD12	2020-05-06	f528dbe55aba35bd4e5d55fe853afed41c54d78719765944a5ea74dbc062f4b5	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GA-Z77X-D3H	2020-03-13	cc7b733f36b027823b3f501864d74397d308f8bc169149cca5307855234a4527	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-J1900N-D3V (rev. 1.x)	2020-01-30	19b4ba1388707838d0de17b6f2e9ce01f70f728926ab7e2dcc0566f6dbce8e90	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	G211-H4G	2020-01-10	9546a8c62b6d285172acc0ca17340040cd18ff76bfe5b9e7672824e948f7331f	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MW21-SE0 (rev. 1.0)	2020-01-10	60370916ce5edea7899125ad1b470d59cc04b0aeccea1ae5474f78ccf187e4ae	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MW31-SPO (rev. 1.0)	2020-01-10	a89940e207a6fdd61170536d0d8fe66b4584c38a804c0df15d23c0cf30d49e35	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	R121-340	2020-01-10	d2565f697c692df559b665d0b97b3743c9de07c0ffa83b0fbb5b86aa821e8622	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	R121-X30 (rev. 100)	2020-01-10	2ca3df4ff24732338397d64dc81509ea5a7c4b979ca3f2ee6c7446d690355c52	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	W131-X30	2020-01-10	7fb3aff9b87102cb3535bd80904b7252c40ba4f556d9f355a45fc9003cb29e9d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G292-Z42 (rev. 100)	2019-12-17	09d1d8dff99b19615f14413d6ba20891819d481b12667452786510209344095e	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	G180-G00 (rev. 100)	2019-12-06	e32576a5522533c1914ea8aed13f238022bf60eb6fb86ec5393bc8ee56fc5a06	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G190-G30	2019-12-06	ccb6d5a01124074eda2161e53a5128e0d0d8eedaffa55b14c1dfdd6fbc5a067d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G190-H44	2019-12-06	bef72cba124fcef35a3cccd67b94707f20c2bfe2a4f4d89f3497affd72b8c2a73	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G250-G50 (rev. 400)	2019-12-06	9424cd10408253ab228dc2125524340f5ca53759e3ad4e996e7cf0320f41884f	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G250-G51 (rev. 400)	2019-12-06	c17b5d0b9140f95f5317619866739be362765e6165292cb183f539b6758f34b3	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	H230-R4C (rev. 100)	2019-12-06	59a3fe40e2896be666fd2712f7e5176ab10ca9335b39bd04fa48867ee607c066	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	H23N-H60	2019-12-06	d4fc77114a472bf1902a66a35f51a11689446c8d0dc18000717a5f74ae6b3a2b	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	H23N-R4O	2019-12-06	a5cda726ef82b73f9c764e39a64ceab32e4d6e238c3019e06d3b7f2218d68ea8	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	H270-F4G (rev. 100)	2019-12-06	934742dd01634ef45d78c2a7f9f3e89a0db2cbc7baf994570cd8b64fa4491da0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	H270-H70 (rev. 100)	2019-12-06	499d17336ee9e6be59a733507c25f7b343933bd728f296f6ef08af611d0a8ae2	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MD30-RS0 (rev. 1.0)	2019-12-06	3b9ef069c1c67a9caa29f8eaa915605cd0bbf1edb735d92abf2c4e959ca4a726	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MD60-SC0 (rev. 1.1)	2019-12-06	473033483d404754621122afe34dc8f8f47432bde116cfdde03ac38fdf2fb054	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MD60-SC1 (rev. 1.1)	2019-12-06	7213c438e3f07e82dff82a5b6cdeb5f80e8b82ce6e12fc37732a8df2c527bfc	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MD70-HB1 (rev. 1.2)	2019-12-06	7540b3951f0ddc6c1c1f4eaf062525f55a1c6e862022e4a545530895510d772a	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MD70-HB2 (rev. 1.0)	2019-12-06	0db641b3a89e75061d6af75e41e365cab69a819f6880d4bd0a0f4ea7960fa17e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MD80-TM0 (rev. 1.0)	2019-12-06	15f2bdadf43e6d3731df0693552d4aa4780ed958dcb0ea4ef80bc27510cdc85	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MD80-TM1 (rev. 1.0)	2019-12-06	298d5755fa084d9268d09063222030993755cee31f9fe5429323b830c8c3f5cb	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MU70-SU0 (rev. 1.0)	2019-12-06	4b5caac23e6866a9bbfd7962a5557ddc9b0369cdce09b664910b35bd66e690cd	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MW50-SV0 (rev. 1.0)	2019-12-06	cde8f07d2e7d14233748df612e113ce348140090694b96c407053fe4e6e1690b	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MW70-3S0 (rev. 1.0)	2019-12-06	f8c314404f2801dc3b04cce95fa27a97f58459f9d70c8e3b03bbfd45bbaf5e40	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	R180-F28 (rev. 152)	2019-12-06	5d3bf4c8452e70a4ee31e25cfd555694af3cf64eda965fade0b21e8a262a2c10	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	R260-R3C	2019-12-06	e6bc9c983e21a0cfc2d86a9dc88c28e5ba33387acdf81bccd6caf780e4619c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	R270-R3C (rev. 143)	2019-12-06	6b6d0ebe479ce082420f5412fc099860ab825450e58d96a6b33c5013ea061864	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	R280-G2O	2019-12-06	efaf5f327a471776f0a75a2b8b7f963c8ab72190be7f606d51a0c04715dafa70	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	D120-C20 (rev. 230)	2019-11-29	cef953fd8883203ef326a6b195a90328ae31ddc10736afa171b617a906fab77e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G150-B10 (rev. 111)	2019-11-29	fe702d3ce5fdade4ab194ec43fcf6f0a070123ab547ae49b9cbaec33c474dfb0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G482-Z51 (rev. 100)	2019-11-29	4dcab1a378bb4cc541f210917c563b95dd678e185b4d0dc8483b175cbf9097ad	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MB10-DS0 (rev. 1.3)	2019-11-29	3aa61cde7b1886fab7e60e077bdb39d0a94e3c451593d13e87306b88b4e56a80	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MZAPLAI (rev. 1.0)	2019-11-26	cd755796109542b3da08826c56951102e5034c76428138d1a6dd4f1ca29955a7	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BPCE-3350 (rev. 1.0)	2019-11-21	b22a7a1693d8cb2deb608f8e3ab366f5eea0e6bdef6ddb03a86d599fb2efdd48	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BPCE-3350C (rev. 1.0)	2019-11-21	a42535bbb37725951ac18b0fa9b5771454ce707bcdbeac8120d0aa0eee0cf1b	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BPCE-3455	2019-11-21	03662e2e512cfe18afe431d968d60e944af5f7514f840754864ee4cd97990130	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BPCE-3455C	2019-11-21	47b54ae65d44b227a3bab252fcd465df6e6d4875cf2511f1261f1c8e5b196e1a	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-EACE-3450	2019-11-21	421dfe54ac2554e627762ea96f454f95f7232f3f238dc9f5d5fc96bbf284fbac	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-EAPD-4200	2019-11-21	c6009503816a44e0d4fa7d0d74ac7418b6551e31e58bab97390711055449e52d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-IMB1900N	2019-10-21	cb4e9aa8b2416ed2fb7593a3c93d5fed07d24d1f349761a1790deb97778a565c	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-IMB1900TN (rev. 1.0)	2019-10-08	93d6ae2ede6573f018ca1dccc5b686a0461a0d662a353511a0b420a10935267d	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	W42G-P08R	2019-09-03	f0d6176199b56171ec12bd663025c664b2bf3f8b844bc90edc8dbc3cc062871d	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MA10-ST0 (rev. 1.1)	2019-08-19	00f354e79abadfb8b4aea11bb07c3ddc16f00b3055ec8c221ad4d69538bdeffd	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MDH11HI (rev. 1.0)	2019-07-18	2fdb64f2007196150cda167f3eb121cedba80d75d0b79def30c4d7155ea0b2a7	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-GZ1DTi7-1070-NK (rev. 1.0)	2019-07-09	0d274a7eb05cebe468e07b2e6692a11c90f222d18077b3d058fc02b464046265	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	S12-P04R (rev. 1.0)	2019-06-27	25b628eb776a57d9fa45cffb00f8f3347cb9d7c2f3c33712348b85c3ecad2d4f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	R272-Z30 (rev. 100)	2019-06-25	fbf652a641fc3d847c148abb65130f7eece7a51a9c6607f1c403a8bbdde6ce48	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	GB-BNi7HG4-1050Ti (rev. 1.0)	2019-06-21	a0c57eb7255f99412b62429f165eeb1f8a297c26a13eb6d7ddbee91e32dbce6c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-GZ1DTi5K (rev. 1.0)	2019-06-21	f37453e390737ec297686b784da5aad11acba8375d377fac533caee996c1d66	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	R160-S34	2019-06-17	898a0ddce89b59e6993ea651b0a0d4b54752957b63274dda75160674fa0928f6	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	R181-T90 (rev. 100)	2019-06-12	c02c66a7d393e7bd8cf757197bbc6bc22fd9f9b38a8a1068166eba97bc5b4a29	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Gigabyte	MDH11BM (rev. 1.0)	2019-06-03	410a0aebc3826f029ee6a4cd0c5816eb0676fe99a0b112e8ce55e8b2f3b49e6d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MDH11JI (rev. 1.0)	2019-06-03	05cb527ef122bbe9e54d4678686e6a21b961f16392841f5f0b0bc3882a184e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MDH11KI (rev. 1.0)	2019-06-03	945d5b0e567bf5604ea9b12fc7f3f3bb12ccfb1935b9de78c9bc77241632fc9b	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MDH11TI (rev. 1.0)	2019-06-03	7796142d4d8a09c6f416d5b3cd452caa659cfca40992683d7f8af55cf4e6a7c8	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MFH27AI (rev. 1.0)	2019-05-30	4d3a05e1006e9d5a1045ea65277cc4fba148ab453ccb1b6d52ffe54edc7fffc	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b

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Gigabyte	J4105N H	2019-05-22	3d1879acf606abac026703a7fe242feb538192ec6f01642ca33ba6d6de55a725	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-N3160N-D2H	2019-04-11	bc5aa15ece1e486f4b7d31c5ba6d45382204c115e556a6412d751e25703a4a7d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BRi5-8250	2019-03-25	3584936b2dad0ff3ee3d6b167442d39dce8400e1016267462827ff20d15dcdf7	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-SBC4100 (rev. 1.0)	2019-03-11	873e676d25545b3d6e133a2c85cedd5a4627a11f67513e54e6a99e812e7618cc	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BRi7-8550 (rev. 1.0)	2019-03-11	591b486bba979b64d20fc90bd63a5991b7df16b5aab1447de888e3d6090f1086	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BKi5A-7200 (rev. 1.0)	2019-03-05	e13105b80056966dee303194e6eb7e2f622dcc80f5fc5780100197d43b871ea	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BKi7A-7500	2019-03-05	002c5c88a393a9da6b48c30d64bd702f6b50fef07c32f45b7c09f40fe2f3f2c0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BNi5HG6-1060	2019-03-05	289cffe9f81f1e9a9cd087bc529701a9343084e499684caf4d34bfe8db15f3f7	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BNi7G4-1050Ti	2019-03-05	9d8b09f7df906dff7d92049fa20921927f3cfebf564455eac78ce2518ad03a1	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BNi7HG6-1060 (rev. 1.0)	2019-03-05	3835eeda7653120a02ce98ea98ba75ebce53ac1efabe3b81d0b6dcc9e611d1ac	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BKi3A-7100 (rev. 1.0)	2019-03-04	c5697a205b0e85c8f31e3538135e32b72ca60d1652162c30007d94ad079096fe	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-EKi3A-7100	2019-03-04	2f7481194b1e0a153551fbc9e68fef59f463882e3fc0238673ed6293715366c5	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-EKi3M-7100	2019-03-04	c1cc2040975c62eabeae3df92e63b2c1a22c690a97edcea1576f83e975355db4	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BKi5HT-7200 (rev. 1.0)	2019-02-25	47a969af17efdfe04690233319d36d12ff820901d0817ce17846281e7d5f49ea	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BKi5HT2-7200 (rev. 1.0)	2019-02-25	0aa384720b8e5c0d09b9b0b14cf14a105e4b607681f778bcaa202412e666bdf1	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BKi7HT-7500	2019-02-25	f61c63e919c797c1faae135458e0db89f288a1d05402380823562f34452806be	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BKi7HT2-7500 (rev. 1.0)	2019-02-25	cb0603d8ecac9baf7de500500990ad0a7e9068dfef69f296d62de549f69f9b1c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BRi3-8130	2019-02-25	a74d2353acccf98743271fd296b2bf6f1e047cca1fcaccc2fd9095a7f72fba2d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	iTXL-Q170A	2019-01-02	fa7e7ca9fd48d608094d5f56ad6f0166db7be91862666abbb6fa631055b98f5c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSi7A-6600 (rev. 1.0)	2018-12-19	6504f61ce57f6caae37cc7c56910267d18a1db46e6681178b6807f0e26ab966c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSi5HT-6200 (rev. 1.0)	2018-11-12	e649eb460cc049ddac440fe93528336fa42bdd9cd7a284ad9a2481647b57e75a	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BNi7HG4-950	2018-11-05	b772a8c72de61e4821a04793a16c8dc8ff7b354fa2a0bff189d879df254c9f1e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BNi7QG4-950 (rev. 1.0)	2018-11-05	f4426a3de06ca8015af5798b631afe601a78a069be9e70fc818222d9b4f679cf	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-J1800N-D2H (rev. 1.x)	2018-10-09	ee21f7397347f3b42d5229b41f9d9a6b4be739419f6f2bef1c3eec8f5d3a17e2	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BACE-3150	2018-10-05	66ff6219a24fb3662b7b3d4fb1fb7937649dcf052cea4364d4c9b178735807f3	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BSi7H-6500-LA-IW (rev. 1.0)	2018-09-19	9e23a81c581d5e6c351c2cac1a944ef5759271739f6150c3ef6857bfe401ae62	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-IMB4100TN	2018-09-12	5abc359c698cd90030a597105c4ef899e4ef56271b9e0f43c843408b9fb53d33	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-N3160M-D3P	2018-09-03	cf2df7d9f1ff5f087021f7b47cef6aa3efb47cbfd639f730512bc630e0c91f81	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BNi7G4-950 (rev. 1.0)	2018-08-20	210688036c5ecadc5d764691d511e738ff32146bc69f26601fd45321c65b0c7d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSCE-3955	2018-08-20	327e84e3cfce4cb086435232d033a20ebcd4b95cd5aa4b85cb92206f44507170	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSCEA-3955	2018-08-20	6e166fd67041801b0481c69bc271ae73e0657f1078442b5740b09f6774128e01	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	GB-BSi7A-6500 (rev. 1.0)	2018-08-20	6662b3f0d921aeee11ecae2893271fe861524620b05540e255d1e364aa65abb6	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BNi5HG4-950	2018-08-19	030031c6c1b9422a56ed44f04efa2ec84fc8a2de254f24d14989934f613d12b8	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSi3H-6100-ZA-IWUS (rev. 1.0)	2018-08-19	6399b690346ae7ceda0f8dafbca5acd17ac4d796619568a51cc8e50f5b630b42	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSi3A-6100 (rev. 1.0)	2018-08-19	e7049738618fc298adb3099074b3419bcf553f0e54acd9ada2d611fe64925026	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSi5-6200 (rev. 1.0)	2018-08-19	044e3800c05a232d4a8821edc28aae7927474c8814a385f717010ef9b12a5622	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSi5A-6200	2018-08-19	d86ef77e6d28671ef838b314840a4ff9237798c058244805b3b3bc01010db097	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSi5A-6300 (rev. 1.0)	2018-08-19	8ca806b8be055f9b5df84871c469279930b34b89de515068b1cb30bfa9c3cae0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSi5H-6200-B2-IW (rev. 1.0)	2018-08-19	40f56a09ded19979902613399e9d6c84cee02b72b7114cabac53629fe2c068be	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BSi7-6500	2018-08-19	5cb60622a0063c6d261c5693fd423d7fa44d826e8250812f50c7b9a28921712c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BACE-3150-FT-BW (rev. 1.0)	2018-08-08	c754aa67ba523b595de11270897af05dc22907a4fce3f4880bb372b1e18d9164	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BACE-3000-FT-BW (rev. 1.0)	2018-08-01	19a209b004631abf16b5f6abdbe22b3e9578e1f5ffc4bb94b6601fb612ae47f1	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-7PXSL1 (rev. 1.0)	2018-06-28	663977d4a882f59c8a8791d427ef4431ca63f89ed5683a4cb6d61006f1b1c8d5	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-Gaming 5 (rev. 1.0)	2018-06-25	4260703c9695e6975438598d85f4046bd34a1f16f77fe797b22cb45b4428f83c	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-Gaming 5P	2018-06-25	e5ddbbae819b82a8237740cccc23cee00844fa79a15e18e6187854b29e7e81a2a	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-Gaming 7 WIFI (rev. 1.0)	2018-06-25	b767595393d045e4adb4225856611b3a51848a17495666be273823220a0dd165	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-Gaming G1 WIFI (rev. 1.0)	2018-06-25	d3e85abb0959e87075f3a91e0048163e92c1831edf3c70a4d85f6ebbe5d56cfd	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-Phoenix SLI	2018-06-25	fe510a8d06c948ca3e699a51d8f60bc0411df8056124d5e4a993cd526da8a0a5	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-SOC Champion	2018-06-25	a85cfd3acbec43f545c8586b63aa52622d9fd00303bf80ff3890012032699ea7	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-UD4	2018-06-25	95eddfa23bfc032d7d65b730d49a4d87bd9a93e349fd9e30dde6a450b9a9bfff	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-UD5 WIFI	2018-06-25	36b023bf42423988805835e5b7c48af57c0b487c7308cfaf5a7a0ff75e3ae8cc	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-UD7 WIFI	2018-06-25	f93b61306682c563bb68ecb67dea64f9d5b86a8e1c7cfa7fb2b4ea02a15146e5	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-Ultra Gaming	2018-06-25	90818dd14d621360badea1463f975a367952e2a0d43e7dc73401a7ab0a2d3a1f	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99M-Gaming 5 (rev. 1.0)	2018-06-25	e3b8e6db2e08d8cf93dcd44adf437d6a6fabfa7b309702b35f7ddd4c1790734c	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-Designare EX	2018-06-15	71337bea704f642aad176d64c9f64fdccb9f38f8107294a417c9bce7a104cdd4	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-SLI	2018-06-15	0307e5ffce3a9981334d7eb19b13caeed61ab8074212943438b4a423b5d2a9b8	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-SOC Force	2018-06-15	678f05bab483e1cb9cc2cd51415c920bb4307b31ff917dc46cc44c6c2083b5bb	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-UD3	2018-06-15	295417e80fba51a322a02a7e4c35ab04af54a48355711066339743e88e3922f1	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-UD3P (rev. 1.0)	2018-06-15	51c5cd38074336d75c166ad86a2df881b53b4fed849b538e3281d1bcf0502094	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99-UD4P (rev. 1.0)	2018-06-15	27abdc6ac0e50d6d6ca0e937c0a7ab1efe8d2c53c46532b68f0cb1a5fb955517	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BACE-3160	2018-06-13	9cd9ea2490848b03659e0e7dd7871ac815c54080e5588a530afe35cfc1ed585e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150N-GSM	2018-06-04	01b2fa505a7a377587ea64b20e1a1570eb7f6567a9204ec972ae478998236a0e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	MVBAYAI (rev. 1.0)	2018-05-15	86a0a4b3efcbc51e14a0a307a0efe343c7a7e3e2bae3a6e0502869f610034ead	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MZBAYAC (rev. 1.0)	2018-05-15	073a6246ab57b038afd9050e2dd017aefdde6dfad5d61b80bb2d5c3c71134b73	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MZBAYAD (rev. 1.0)	2018-05-15	be9c2feced70f810a5d08ec03dd8e7df75f9abd066a2ee30ad82136f355ceaf7	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MZBAYAG (rev. 1.0)	2018-05-15	305b23937168ebec60ac6756010c07e4588c48e9fe4694fb935945dbf4be6ee	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MZBAYAI (rev. 1.0)	2018-05-15	4ab2b4adb933a22cc5b3b3739e315a68c9a9a3dca20b1ae7f27713c0279f6670	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MZBAYVA (rev. 1.2)	2018-05-15	f96a77ebf7806cc05507582f25810237aeaea30ef819dbe90ab2227f8a36ce8c	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-H110M-S2H DDR3	2018-04-26	8bc76dc04271ff2014eaab3560bbe3177cc08eb3337f4f512c7d44b98a40d1d9	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-HD2 (rev. 1.0)	2018-04-23	713c6e95151ae02f075d0391a12e47fa2aaeed199379377bdcc00590ceda1795	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110N	2018-04-23	b66a10f650f73f5497b22a2d45d9c0bf4df9a987668c4d617e62925c5c26c388	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110-D3A (rev. 1.0)	2018-04-20	447d66dd22c3af2bbdeea4b2a766cb3fa4442466d0c02d62647de9f3683cd6c2	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-A	2018-04-20	a04064b45ec7d0c5b6ae123d779095e23315e6ac1a150d4b3190909a2237603b	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-S2H	2018-04-20	b1276f7ad8788d3db650a672e6ce6785d5c3922d2bc5aae554ad1b48b62dec5d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-X150M-PLUS WS	2018-04-20	3ba7690791f1adeaa12e45dc9adca1ee7f08c99bf5f1c51961c6975d1cd14770	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-D3H (rev. 1.0)	2018-04-18	efb150fe9825a88101d934fb5a9801f970f6e734e758344062d37152e8baa1af	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110-D3	2018-04-18	f5f374f38948ddbde29b9673cd70ce05e27af9f3be23a7bc086f37f35a68ede4	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-D3H R2 (rev. 1.0)	2018-04-18	ec7f01320c848a88e89d3db821f462448f62e5ae65fb4fd02dc3a5602ad1eac0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-DS2V (rev. 1.0)	2018-04-18	577535df524a000747a1e15828af3de0cfe6865b0b20170d024974d6b5b81160	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-Gaming 3 (rev. 1.0)	2018-04-18	901396591f3682b308f9cfa279cf1a7f8d4cc6622a9ca799e6b5e1d5bf769f2e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-S2 (rev. 1.x)	2018-04-18	6a24bb276e5c9b05ac4cca0da01e1b381245a0d217efb5190543de6ec41b2505	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-WW	2018-04-18	b565acd86a3f4e294d606bf6c0e42eedc4b7361f4adf7c31ee4a806b54767cfb	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-P110-D3	2018-04-18	c544cd0b03384834b08b784ec0339e2b91a129ee56e7f4881101a10af567e6a2	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-DS2V DDR3 (rev. 1.0)	2018-04-17	8b02d988ee00fe78039974032b856c56e741a4594744b4f6376cbe1df8271226	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MZBSWAI (rev. 1.0)	2018-04-17	41bbe9daa5808a1c5b9836a654d6c6d312ed7034c304f963af28d13eaad84340	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-M.2	2018-04-16	18216a9c0fedbfa3a8c8cb3380845ff086beaec130296234d58d02d24fe051a2	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-S2PT	2018-04-16	210d858cd9ce7dbb1b76277fd580e1c71214d1f7ceff46788efda64e817fa95e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-S2V	2018-04-16	c80df47ed107f7ea4eca4e15a55fce37f1578b985ed45131b8c67dce9ac2bdad	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110MSTX-HD3 (rev. 1.0)	2018-04-16	55099b8c517078f75299dc02afe1f09167bcd7760c0f46546cf4f8274b54c465	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110TN (rev. 1.0)	2018-04-16	f5fa2136e6ebb55d5aa3c0bcee64bcf4506a7854ca10fb5a43b8141ff4bf1275	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-X150-PLUS WS (rev. 1.0)	2018-04-16	0bd8853cb934be142b7edb2ef31a2031fb348a6ecea1db37e466dce25bf7fd6a	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-J1800M-D2P	2018-03-28	a08c05bf56e1c4e4d180d69266bbcb244e7e2f85259d86c05bfcf5593cfa33f9	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-J1800M-D2P-IN (rev. 1.1)	2018-03-28	98372c6dea313b0660ae2f1b1c80a8a5d7e93ce07010621392faca75818c0fe6	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	GA-J1800N-D2P (rev. 1.0)	2018-03-28	af4026ab4defc142e75d57ae35e7ef4492fac8ab6c0cc55c6de47f3e21f5ac24	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-J1800N-D2PH (rev. 1.1)	2018-03-28	b2977acab6438edeb2af8a4e3d0c353fd89e9b2d47082b528c3c23fbddbdcbe3	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-J1800N-H	2018-03-28	464be29c2ee1a3f706063374be13365d0a296776aed73fd0c8506f1cdddb568a	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-J1900M-D2P (rev. 1.1)	2018-03-28	f89741fdf7f21d8670407a4b8038e75319d73486009e08a795632e94fa27df82	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-J1900M-D3P	2018-03-28	5641071fccf0c169979343e131d614caa71a2b334ffa45d1ee10817ccef73d8a	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-J1900N-D2H	2018-03-28	ed85051f384bd7694f0a86322c705f819cc18a0ced71d4e3c3946b37d4f3abe7	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-6LASL (rev. 1.0)	2018-03-14	2c0e4341f91bcdcf78c301778d52492fa304380cdd15bdda725910cc6709e033	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-6LISL (rev. 1.1)	2018-03-14	9a8e636b33372a34e9719b8b20d2073bc56f549b64e5af83fe617187a51b97c1	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99P-SLI	2018-03-13	fa52c6150c49a84699bec9739b84f5a2c073f4f69b1bc84028f3b2cb15b2167f	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	G1.Sniper B7	2018-03-09	92311971e888a24238c48086feb47b2d0820856e514dd6308575291b6de4e48	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G1.Sniper M7 (rev. 1.0)	2018-03-09	6051ccb31aaab7240147a1fdf9b8f444c7ee4bde73ffb4baca63b02bc77dea81	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	G1.Sniper Z170 (rev. 1.0)	2018-03-09	3df7b53ef2284dd2f3385aaa589f87f2e3fadcc93d2755e28781452a273d999ec	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150-HD3 (rev. 1.0)	2018-03-09	878450f31de9dd84201895e81547ada2085ec94608d7fb6bdf84d73dc3b98538	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150-HD3 DDR3	2018-03-09	d1d3adca998106090f4b2f08d6c50769e88e944ed640518d23f8865102c2ec0d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150-HD3P	2018-03-09	4cec11820244f485baa7f61d50e60a514b0c5aedb87d1a26cd6b6fb153fdf9ef	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-D2V	2018-03-09	fdedaff9a18229027689f23bef37cd8424e248412137bbf710fb6163eac6ac43	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-D2V DDR3 (rev. 1.0)	2018-03-09	da480d23fe57a6003e41f8c88e2aacbade99186f0b62ba4561663b346e9f96e9	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-D3H DDR3	2018-03-09	5fd1eb03f29343e1ba70dce50264a7143129fe60bde396f6e3715330623db8de	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-D3V	2018-03-09	f2da89fe72acf6892b139fd4f7a047c30eea75cf5c572da6f901511658ae1522	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-DS3H (rev. 1.0)	2018-03-09	b3148d78c2efd368e986a43b19e209f2ad4817e8a4ef41bb79c57ec7b9dc09f3	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-DS3H DDR3	2018-03-09	086d80a421ed4cc907120e6c96117c3b69b9edaf2ef6951fde7d3dbe6ea4c878	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-DS3P	2018-03-09	e69ba3bdca3335f01b749abb84c702f6f926eab3e4d6ca70dd5ab84c3aee24a2	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-Gaming (rev. 1.0)	2018-03-09	639cd1a8d45af689d2fe1aea44b62d2110146b314f39be8a5d472e412842e61c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-HD3	2018-03-09	94a5124370c2d66b38a568b3d8be4a98dd8d2e25313b68506f7753c4d60be97e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-HD3 DDR3	2018-03-09	825b4bc9bf807631611cd33434d1455bca3d412b9a03463fdd1092c54d5ebbfd	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150N Phoenix (rev. 1.0)	2018-03-09	12886ede3cef3c93c4602ff26519a04c9143e903b103006ca3805c3df2744c8c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150N Phoenix-WIFI (rev. 1.0)	2018-03-09	330f761ad2d43d72a4a09776d76bdfdfdd88d4ddf6002e0056e2826828372ab	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-D3H (rev. 1.0)	2018-03-09	fddafb4af375516cb2f72c9308852c88738a66d57af9deb08e9a10f1dc983499	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-D3H R2 TPM (rev. 1.0)	2018-03-09	4ecd2f653fab0c6dc0ed24c68a8f04c454cf8dea68b58d149e9d79758aac2c54	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-DS2 DDR3 (rev. 1.0)	2018-03-09	f71a5cfc0646d85af2847e6816752e81f3b4d2a3ea5fa94516aed9464eaa4024	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-H DDR3	2018-03-09	a402dd098614ebc89fe70642661c52da9ed9ba0b21627cff4868defc97db0274	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	GA-H110M-HD3 DDR3	2018-03-09	2e24220caffd6ba7c7e1835f12740073a9e3a826a1ffb9bca210756c224eb99a	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-S2 DDR3	2018-03-09	7802bf1fde1f8771ff7165acab0474471598a46df398d7db84adf911d2d37260	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-S2HP (rev. 1.0)	2018-03-09	4b0a77259b2af63a9704b094688237ff3c29fac1c011a373a0f2537a8a543d1a	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-S2PH DDR3	2018-03-09	b73d5f184db4524883fae5f01e681f52371964740bd6fa957998ab4d65537732	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-S2PV DDR3	2018-03-09	ebd6b43db01ccccaffc4a08182e03cf6633d5371aa69c82f7300141277fe7d7d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110M-S2V DDR3 (rev. 1.0)	2018-03-09	756777ea660defef2629b8802bcbdd29b61020fa8ae8cb07045a7d5f991f3508	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110TN-E	2018-03-09	879f28f51c3b235744352f0808b6267258131f2594f3ff85a6938401e73eb9da	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H110TN-M	2018-03-09	50f77912004b73bade539e1c3983a7ab78984b8590a64d3e030ade4352c49eb0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170-D3H (rev. 1.0)	2018-03-09	e4a209b19361c13d7a18fa41d8a257a22f6c806bd62f04dd24cd77abd7d3134f	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170-D3HP (rev. 1.0)	2018-03-09	2e1be66c511bc8367a2b1ab41a3ca60cfe46648bcab2d5f1f5bdf5df14de1c05	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170-Designare (rev. 1.0)	2018-03-09	6ea3c21e1aadbadfc2e9ac0860d94eb87e6590ab37f98326e00b9615a13a6208	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170-Gaming 3	2018-03-09	2cb69c081c6413077fd076d7230ff816931ae65bbead2f94f0b12d33e1861c9e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170-Gaming 3 DDR3 (rev. 1.0)	2018-03-09	eacba20ef05b116d70c6344a54486bb7c23a131d7c897f5399b9a084a5bd5205	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170-HD3	2018-03-09	38643b383b7d51cc53298693e108cc293779dc43f254b2e2b17f66a80f9e4175	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170-HD3 DDR3	2018-03-09	b3cb86dfc649346ea7ed4c8ff117ca91b59435b9baa9bdd8e6f2bde1dc1b1124	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170M-D3H	2018-03-09	60a230b0a5722bfb364b6d64ae3e1b1cccb6161bbd6f8cc034977f4d283b4f7	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170M-D3H DDR3	2018-03-09	1c6801b8a7920939facfa379b6141016651601971156e426db947ca40b6f1708	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170M-DS3H	2018-03-09	b9ea15324d90a1b750cfcbf964321370a56b116b44a0cbee2035cf11ffcc0ef8	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170M-HD3 DDR3	2018-03-09	78bff3425a6b42b846508850f03a040c22c43566947ac1d039b431fb80a31451	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170N-WIFI	2018-03-09	03299dee42886b0856629da99bce9cedee322b80bfb89aa6943913d2da15e03	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170-D3H	2018-03-09	523817566d04fde3f7fc0215b4c4758243319affa5c1819e4f041c290a36970f	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170-Gaming K3 (rev. 1.0)	2018-03-09	db4668c191b9266a2afbf974c348885a9d10a3e1750d1e100418aaa896a5a103	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170-HD3 (rev. 1.0)	2018-03-09	bf0aac3f13b0d68c6a255735eae4000c7e5f09748818746b4a1038f0be34f78	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170-HD3 DDR3 (rev. 1.0)	2018-03-09	bceea4f950f07347b40c579223456984c0515a2cc94c4cedbba3c17e1c459eb	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170-HD3P	2018-03-09	20607b0f670b297b45523730d2204e46603cb3c65f47e6cf8293b07b7b1178ec	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170M-D3H (rev. 1.0)	2018-03-09	a34cb81eac53b0800c2c02d2984c0960c0d68a22707869befd4af3996be42e7c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170M-D3H DDR3 (rev. 1.0)	2018-03-09	fc0eb68179f1363c19896c7cc043021a57cd45a3492187829b329474c361722a	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170MX-Gaming 5	2018-03-09	b87e20d143fef2fc32233444070130834ce5dbbffe06409cb537e59c911f49cf	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170N-Gaming 5 (rev. 1.0)	2018-03-09	209045f2bba172fb91679d4319cfe548c24921f1e28dd9f887e3a78bce515e7c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170N-WIFI	2018-03-09	d67b82421d81df8f3d64966609e3c963be6d0dbd87df531ba5f3ef0bd61e5353	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-Designare	2018-03-09	c061ffcf8d7e38afb97fb434afc78d39d22bf9b02884c7c1b04487cbb7dea7	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	GA-Z170X-Gaming 3 (rev. 1.0)	2018-03-09	7b1cb9593c0c1890a7f1e922777c206012f1ded7b3339d66fa49efaca44c74	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-Gaming 5 (rev. 1.0)	2018-03-09	438bf66c9433bfe1ba92452f5f7eb1d46cbdf9af9ab3c3d1d4354e902fb0f257	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-Gaming 6	2018-03-09	25917f5dcd5f5a4c2daaa9fc0cdf991b365e226856202b4e5e987d406e6af95b	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-Gaming 7	2018-03-09	75468e84df86d3133927f5c08028dfb6dce55168c99ec9fde08397f5ab0865ce	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-Gaming GT	2018-03-09	2d40ec6b83d08a885cb576844e609105e15fdc4e48181dbc861e2bce0b657b59	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-SOC FORCE	2018-03-09	5c25f790a4eb79b4ad3c4ceae05329c0878337257a6e31c276ff7aa5c18acc4	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-UD3 (rev. 1.0)	2018-03-09	d6389e5f47ee85c43b2d9aebef2e0c8a9f06856fabb148496a8acf251cdb3c1c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-UD3 Ultra (rev. 1.0)	2018-03-09	a01bb5e701b3b847766d027e7b9bed8e7bb05403ca0160734bc73c93fb77b6fc	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-UD5	2018-03-09	260811f239a5a92f4a894f52c5b7218faa75c5765e3db17a4ee33530bbfc1295	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-UD5 TH (rev. 1.0)	2018-03-09	ad921f429c443cd2a73ba3373fb6407a81b4b8d53b3fd5cbea07ca847ddc75c9	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170X-Ultra Gaming (rev. 1.0)	2018-03-09	464643065d45eeb1c2566dcce90bd868313319547c91d46e3cea78126109d374	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-Z170XP-SLI	2018-03-09	32d8482434dfaae6405eca2bf724939194c8740da638c9e3e8b760489b2a1128	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BXBT-1900	2018-03-03	6b0b62e4ea23df186b7bbf0fff342ec107596e1fd249721eea75375982054535	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-N3160N-D3V (rev. 1.0)	2018-02-26	e03efb41e61ac04cb14a63c5ee5a71d3deeddb29426e38eab1c68946d60e26a7	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	J4005N D2P	2018-02-13	bae6e219e1ed8e8164382c4f05db847386c5f2908fb2fa453066aed4531310b4	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-BACE-3010 (rev. 1.0)	2018-01-24	aecee44ca1c8bd43d65abeafcd5f0085e1165d42baa953808d566005189746a9	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-N3050M-D3P (rev. 1.0)	2018-01-19	2d4c55cc53de9adaaacd9e70527becc4de1cb0b39a605791601fefcd0156ced4	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-N3050N-D2P (rev. 1.0)	2018-01-19	c717a5d6b61b22bd458dbb497dc5abad9e30fedb668810e558a46f994a656435	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-N3050N-D3H (rev. 1.0)	2018-01-19	63cd7d4698c89b720c73125900f4cba4b8b1c2b962064280a93dc9ce2a0e9549	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-N3150M-D3P	2018-01-19	1c4cf96a2ce5bae121b0594c2b41664510cfffcd4001072f2275964c20fe12e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-N3150N-D2H (rev. 1.0)	2018-01-19	4685e5a58d4cf84102460110a5fad72931b1b46eb9f71650811832f80580bc0c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-N3150N-D3V (rev. 1.0)	2018-01-19	b0474259effceedf7aedde543afa096fdcca74d9865eac223b6a91b4ed922310	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-N3160TN (rev. 1.0)	2018-01-19	5f53230a65454b8805179f246ac3c8b36bd274ae0051d900cd04890e7b765555	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-B150M-D3V DDR3	2018-01-11	8ba0474e2bdeb945adf9a819854cde336f3cca848e1ac41e381aaf03d397c7d0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-X150-PRO ECC	2018-01-11	c6ed04464891a4cdc3a25ba34d3cd44599bd118ed953c68c8b63f11be2dc83d3	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-X150M-PRO ECC (rev. 1.0)	2018-01-11	764d56cd4e5b88fa97313d5eef173bb426aa27aef5d81794eaf5b9c1fdf38375	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-X170-EXTREME ECC	2018-01-11	35f6ab275afa77bb30a5672f32b196d8c76208e48500d7f381e05f8f12e400e6	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H170TN	2018-01-04	bbb58a67574c989b095f38c9fe031cadd5a709235d6e0bfc9a206f98fd5318f0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-9SISL (rev. 1.2)	2017-12-19	493437a68a7a7b46b645d46660e17c3b6599eee86cd06f592683e56963cf9a8c	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-B75M-S (rev. 1.0)	2017-11-21	554e7be483afb47c81760179da5199e9e2f59a97b7146e50ed42f35728df9c5f	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68MX-UD2H-B3	2017-11-14	5bbd2f88bf68b66e974356e0e49f63b83fdeea8d148da445e24073d8012c0c3a	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	GA-Z68X-UD3P-B3	2017-11-14	b7981e34bc8994973c48a18ac01d6b075f092de47d35fc62ffdc503ecf081ed	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	EL-30 (rev. 1.0)	2017-11-06	485b963baebaf9e0d0d3f0438da8fc3a5e74cac6fc7781e732df5ad0a3be3eec	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GA-H61M-S2PV (rev. 2.3)	2017-07-28	9e2baeb611484b3c3460fbabe2b48ad91111e9a0cd7d1f189ab2d0438a69b3dd	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GB-BXi7-4770R (rev. 1.0)	2017-05-12	73f5c64009c9b8ce26c13399584a65b73b3b5201475b04dd9621f5433ef959da	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	R130-134	2017-04-26	923e61ed9ecf1c37848cbe56822ce753f455fdf25c1eca816f3ac04aa46daa4	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	R270-D70	2017-04-26	d5844b2dc05f8374705493e1d67700d0421f63c27ea10070c60f1871dcf540c6	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	P15F R5	2017-04-21	e112ae0d90739fa839e6e29687412b5669a2f23bbe2b418d96b65ead135ec349	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	EL-20-3060-32G (rev. 1.0)	2017-03-03	8e0251d4518373ebab7aa1dc037d732b5c04e92306e16a8e8ca1479df0a9ae88	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	MP30-AR1 (rev. 1.1)	2016-09-06	586ca26deb275734620c0b80c8d16dd86538bff6116f5d7db1fc10230d775eb0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Gigabyte	GB-KMA1 (rev. 1.0)	2016-08-22	5b5b834775e9fa3cb50db4d25d9df7849cf0f13011a209fc53c51245aa963856	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-6LXGH (rev. 1.0)	2016-08-10	984e1178ed45439578fc0b3cc2787cc8f972987c087fc5b4762ef5f421cf5782	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-6LXGL (rev. 1.0)	2016-08-10	240c0e6220a07f27d4debd867f2a1774a50be1b37c3f53a2dab272a71280af4e	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BXi3-4010 (rev. 1.0)	2016-07-31	10cef05010197e635c330548e99ad98827223f0c8eada8a6e5a95ac7dc2880fa	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GA-Z68X-UD3H-B3	2016-07-11	9387c8f1b5d856bdf0ce43c88413c22f98214768708183bc610381363dd269d8	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GB-BXBT-3825 (rev. 1.0)	2016-07-02	6775386a28b32b93d1853880a8ccf1b916a3bedaf7ba4d34f2a64904de792417	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-X99M-Gaming 5 (rev. 1.1)	2016-06-22	d11d8f85507e54952adcfbb82d5d58ecfeec7674b756ba62c8e1316d9a1500de	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	G210-H4G (rev. 100)	2016-05-10	dd75c90a2a81a34fee2c17a6e72b8ec2c93120fbd98c437c4648ac5fd78b6af1	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MSQ77DI (rev. 1.1)	2016-04-07	030615cdc1d2e52fe185f8fa8e6e1c1028beca283a6be9215482a39df1418622	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GB-KMA3 (rev. 1.0)	2016-03-24	dcac97ed60b61b1991fc9f499fb3bf0e8594d49d102e76a988ea8933d099d396	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	M9M3XAI (rev. 1.0)	2016-01-28	1d3295cecc309f0649ecec6952824abfad776ecc1f46199a080932b5e99ac206b	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BXCE-3205	2015-12-08	a080c1d64fb844389bad75a733e3b4c5483b07623276b114575d5cba32170869	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BXi7-5500	2015-12-08	14dca67fdba7b20c48d3c16446db2a648c79e5f94712afba6e720ecf04ba5223	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-B85TN	2015-12-03	2d817d05c86c92a00f00e286c6c26cc52e6a50019970a71d98aa07c53d9690c8	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-H81TN	2015-12-03	5ebbac1eb55e763bd4efa47f6232ecbcc62d73645c3291e00a3d5cd880898ebb	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-H87TN (rev. 1.0)	2015-12-03	e555305c3219cca7d7b8d5a667ae2ef454aca7eb84341f07e1fa8288cdb38359	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-Q87TN (rev. 1.0)	2015-12-03	5f237b90cd70e0f63c0414262a0af2fbf8456ea78252750ccc6ef7fe59cb8774	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BXi3-5010 (rev. 1.0)	2015-12-01	bc4bcea45075ba867a4aadd97494ddcbbe693b23131bb52703d3c42b41340719	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BXi5-5200	2015-11-23	39b90d14141556595814f43afeb015cc34e75acc31d23b0c505ba00d1c4a6a7c	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MATMH81 (rev. 1.0)	2015-11-23	dea93336a790f6ce8a80f451d1dc454eaf29b034a38a802140937b3166c4d450	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MZJ19AI (rev. 1.0)	2015-11-18	51ebb3341dae5033164b3b45470115f49f327e5dae5ab111df2a59bc04afad8f	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-H97TN (rev. 1.0)	2015-10-06	882fa77c019e12dc61165308318657941c1b15c1259213e78aa035017fd50445	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	U21M	2015-08-12	6fb97ce4f81eb4d83364b9377cf654a6f0e8d9271bd8e1e9f45f78b07f838172	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GB-BXPi3-4010 (rev. 1.0)	2015-08-10	8a4342c4baccfc07bdaf52b9cfadc8789c37092ccc0c414e1848e4d0317d01b4	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GB-SIOPS-J1900 (rev. 1.0)	2015-07-31	ddff03dbd491004d20587de561e976bc8b5b5366723b51d3f59dfd1892b9dc25	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-TCV2A (rev. 1.0)	2015-02-06	70c80b940abbafb0d631870322b5f7c8e306a2063097493ab471f0ba8ddd228b	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MQHUDVI (rev. 1.0)	2015-02-04	092c46188af77b69b4c19e349712a23244ec7cdc885c2e0150a8209c1693c95a	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GB-SIOPS-4550U (rev. 1.0)	2015-01-30	d3d7862eb46bcecb3f0eeeb5ec94caa94456def40792a125cb9b7912625be5973	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BXCE-2955 (rev. 1.0)	2014-12-08	161c97b5c0ce6cc90a70034d8de30b18d07c43e50d5566c1802dad967cb05eb	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GB-BXi5-4200 (rev. 1.0)	2014-12-08	05001b41f2adc9d6c008f12f9d1d9669225a2366c9a05f6bd19d420cd5b13fc3	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GB-BXi7-4500 (rev. 1.0)	2014-12-08	6f6b51ad77bb7963ec455923fa731323ceb72af167a0a40b8c2b91696301bae1	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GA-H61M-S1	2014-10-01	19e2a33d2a28a825fb89e7dfda9609776110876b204c5ff760edf716cc7c390b	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GB-BXi5G-760 (rev. 1.0)	2014-09-10	faa729af295c234dfcfc5ac4ab91c8c255c1b054c612b9cbda1fce33f88b4d51	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BXi5G3-760 (rev. 1.0)	2014-09-10	718662066149651d1b7506c7582df2252c555428481b1821829b4db25e2a836e	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GB-BXi7G3-760	2014-08-12	7452bdc99e762f3b54571e03c1b6ab0873529b798275149fe0a8bc057929f8c8	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-6LXSL (rev. 1.0)	2014-06-05	3448017b88b33e3949d6c18876be32e506d827f65de6c425ebf82f33a2c3f502	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-6LXSG (rev. 1.0)	2014-06-03	eb08694cb68b19cc7bd0bc323a46e8ce6de5036078a61dc8827ee480269c88eb	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-6LASH (rev. 1.0)	2014-05-20	d7f1a6c78df7317f866866e74e881d91485ef816e492fd2a6fa02b940629494	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	GA-Z77X-UP5 TH (rev. 1.0)	2014-05-15	f0e7e5b4689bf7e81db1b56185b2a1186d31a50f1cfd1c9863a0746f490ebf3f	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-6LXSV (rev. 1.2)	2014-05-12	cc9b6fc8540a6abe60b8966ae6c4217180cabbb3471d12f93e3c81dc206c8bd4	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Gigabyte	MSH87FI (rev. 1.0)	2014-04-28	c19f30c4c9a444922cb61cf136cd48d9674d2134b98e618f6e7ab9654eb7a7ef	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GA-B75M-D3V	2014-04-17	ac8e4d6a033b6a2d130404eb06e193b248a76308d4a82eeb5736d4f251af6826	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	MSH61DI (rev. 1.2)	2014-02-05	ccb5cecb797ba2e130f297ec86bfbd629ebaf919065e50d3f8911cc05b3a1d	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GB-XM12-3227 (rev. 1.0)	2014-01-29	c67607819bad2d7abfd1d47eebad947f9920352c33b96db61f9f25c05bddc7c5	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GA-H77M-D3H (rev. 1.0)	2014-01-21	f5502f7f96b9ca121d3b52a1a804c877839e76e3d3bb45beda100bea672067d26	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-F2A85XM-D3H	2014-01-07	104c3173aff7cbf07c72956516cdc7c34e6169604293aec90e86bcc4384a799a	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-H77-D3H	2014-01-07	d4c6ce9d730179b7a5cab37a8744a2ca588c9a2a8b8462b62d2c96757adaee61	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-H77-D3H-MVP (rev. 1.0)	2014-01-07	1ca64768668cac95b2c49594df5412492fd3e84a5ec279f5e5782d9d08d641e8	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77-D3H	2014-01-07	0d28128151819a06848aeb241f3dc4737d3a9b3918b739f8c512085af375b368	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77MX-D3H	2014-01-07	32b1eee6b2e1553ceb902d17d0ecf5534034685dc8c2863f9ec99d2dc587bb72	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77MX-D3H TH (rev. 1.0)	2014-01-07	26778248ce3156bc2d3e70461f079d1292435aeca9ea2c6ef0e536c979845164	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77X-D3H (rev. 1.0)	2014-01-07	b51371864d4322ca5c584cded0f6bbad11d01cf498b841b270ede1f03497137	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77X-UD3H	2014-01-07	c27a0ca23c6d3ee9eea18c0e700f33f13c568dc209341b8ab4b64148a235c70b	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	GA-Z77X-UD3H (rev. 1.0)	2014-01-07	023f4c9928786909d9fcb2143edcb1ce9a20d1b15cf281559996f21617503f91	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77M-D3H	2013-12-31	eeef50c6dbb27c9ae8bbca0e2be73384ba60469957414bc2943892ef28836b4f	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77M-D3H-MVP (rev. 1.0)	2013-12-16	3c50ff8443f151a8022b4934dc0e87cd74d500719b586c82bce2184bac3ec2d3	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-B75M-D2V (rev. 1.0)	2013-11-14	cac095d827e58ed8992e3eb2bc4285823c8378247de15d7ddc3f97c79d275f8d	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-B75M-HD3 (rev. 1.0)	2013-11-14	c3d754d426defee4e705ab9b72862764a22a64f316a1f8a2563a72cae308c31f	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-B75N (rev. 1.0)	2013-11-14	4a901cc6ab10bd1546d8453bd1bcf75379880ee549329c03ecfd4b445b52de99	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-H77-DS3H (rev. 1.0)	2013-11-14	58d19c2ca76b765809a99f0eb2227291f4f51860723d303f9ef0cb20d4d19dcc	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77-DS3H (rev. 1.0)	2013-11-13	98d605b3578ac3b7518f151c24c937455b204441ba806ea244f22e54c03af2be	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-B75-D3V (rev. 1.0)	2013-11-04	8222535124cf1bf77c3af3e6ce3b3a942390794440b01f8d2fd44b4e416b049b	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-B75M-D3H (rev. 1.0)	2013-11-04	33793d37f2415d724c58c993c2ad6cc67d661253b929165f6f0ab0c88c8325c4	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-B75M-D3V (rev. 1.0)	2013-11-04	235c6f47146d2bf5dd20ff3971421489c69517be3b467ec1a2b6f7dc0f2d8a94	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-P75-D3 (rev. 1.0)	2013-11-04	1859a1e462fbb1db039e99f7cfea16e6da59188ad37b313181211ab2c3d70150	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-P75-D3P	2013-11-04	901658f7361b4d15145d07de99b9d921d7293699a15479f086f4d1a00fedf089	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-F2A55M-DS2 (rev. 1.0)	2013-10-01	4be0b29ff5fd55d855e5529912b92acea24740eb7fa0250ba01a44824c4685b3	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-E350N WIN8 (rev. 1.0)	2013-08-15	4fd09df247091f6c6ead14d012325d14055ab38095f5c4d8c258352f48c2052f	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-H77N-WIFI	2013-08-05	7e95d1a64976573e5ed1c8c3466e24037d33fcfbdb9f02d1ae69643fdaa44d7f	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-6UASV3 (rev. 1.0)	2013-08-02	00d23573a79d5737cfc6a1094b12e22c8a8601618934193dba2242f0246af559	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-H61TN (rev. 1.1)	2013-07-04	f19c7fe7e25a9a41b4065791fa390b8d79c00cc7fafae702a92a6ec0e86696	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GA-B75TN	2013-07-03	506f5abb01dade2137a4b8d3ea42d1127f24f59f96339e77c59883571ae63443	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GA-H77TN	2013-07-03	1ffb3921b21ffdb876b2cbc7b6ff939fb5168efdf5ceed571d2d220e195fb150	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Gigabyte	GA-Z77N-WIFI	2013-05-30	25c38be153f85659377f63b4968f5425bf7e8d6c99fb695eeaaed973939bd943	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	G1.Sniper M3	2013-04-29	bcd286446cd358474b492a2c9a4d49eab652aeda52c0e69ef94b1cd12b7579b5	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-H61M-S2P-R3 (rev. 3.0)	2013-04-26	0e26169fbddeb0ca9b8283dba44d571b554487b5dd9348caf84fe9d7a6a20dcc	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68X-UD3-B3	2013-03-18	c0adc82a52cbe367efed31279d6e1ea3ab98311db49a68ae149e4af9a70ab67a	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-P67-DS3-B3	2013-03-13	ff5f5836457aa7fd0f02d037d0dc23b5c5a49fef8f7360268d7276e577060256	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-P67X-UD3-B3	2013-03-13	b8fb25742a7753c0f7ebac50e9e3d6186ea123dcd0e33eb0a64abc111eaa7728	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-P67X-UD3R-B3 (rev. 1.0)	2013-03-13	435e0ba0715afef2a466835c19105c6480a35f921af59b863f2c29ed2d1de0e6	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68MA-D2H-B3 (rev. 1.0)	2013-03-13	e8d1572bf6bb0b658f618c735322e6c1aa20d01b79c9100e3d177b6c27ced480	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-P67A-D3-B3	2013-03-08	d36182899b2c912ba34f51b50bbf228e1ec367b0fc009d20d34e4f011f4e9fc1	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-P67A-UD3-B3 (rev. 1.x)	2013-03-08	c46c76138b4cf0a3407c3fe2844c11fdd5c0c2c4d335ab58aa0b0617a6f13f33	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68X-UD3R-B3	2013-03-08	50d3dc2e80333527177e5f5e1dbc06357ecaee3fa2dd1d51272a906ade3cd7e1	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Gigabyte	GA-Z68X-UD4-B3 (rev. 1.0)	2013-03-08	beedbc9f64d20973229b584d965bcaf2f8fdc4a88c4bc202eb5e9f5565c85fa4	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68XP-UD3-iSSD (rev. 1.0)	2013-03-08	f615668a861c9d430afe7b40f42f352881132d193d16426951563997fbd8c81da	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68XP-UD3P (rev. 1.0)	2013-03-08	1d3552918dfc84151da3dabc0687a4513f1dea9d6879d53a8b8646398fc462e5	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68XP-UD3R (rev. 1.0)	2013-03-08	e4f33b57947d45b3e43bdd7bafd68d2f4c799fd0b72a8a2ca61319ab760ae67	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68P-DS3 (rev. 2.0)	2013-03-07	5823dc1fbc95d092e02519c069c4fd111783428757b969fd8b9dbac1009fe91e	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68XP-D3 (rev. 1.0)	2013-03-07	384d9e1e3cad82b7841f33115dbfdf38589420716c8c0aa5a190971a44aa39e9	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68A-D3-B3 (rev. 1.0)	2013-03-06	2065b895916edbec17057603ba98779b4bd10cbfc3477a87c767a36fb027b76a	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68A-D3H-B3 (rev. 1.0)	2013-03-06	d6c9d4c8caf3307da9b1d6543e00682a3cddf1dc06c41f0f973355cb9c8554bc	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68AP-D3	2013-03-06	7013aca3c062f040c9d0448f7e2892101b30e5956915c8dc3a53c3c2aacd13d	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68M-D2H	2013-03-06	d6d451499ebe6d8dd621f1c2ebb00b87dd01f7870b791e682b66d5f33eb01d8b	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68XP-UD3	2013-03-06	c676efd7e6c8bf4a7d3da8aa51b2b564d77c67f6d2be68b25232326166e0c20b	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z68XP-UD4 (rev. 1.0)	2013-03-06	4ae3a48e1a715461671107f9e8e790cfd1c4ee4d2b8ddaa50b140d67622b920f	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-C1007UN (rev. 1.0)	2013-03-05	7b2aaaa9f92c0e6fa23a59bdda27d5cb26e8fdece26bc756893490d3ee657a4b	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-C1007UN-D (rev. 1.0)	2013-03-05	fcf7c3d07e1bf9f1347e48dd3ac6e45fc9492648985a06394ab6568a7a71e262	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-H77M-HD3	2013-03-05	e3b619d396378c2e6bc2f550cf1c55cd17e7091fa4ab90761f32582eba28884d	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	G1.Sniper 3 (rev. 1.0)	2013-02-20	cfa61511dad005aeb4ab01678f87169c7d509d59042b2fd33e8b58bdb34febe6	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-6UASL3 (rev. 1.x/2.x)	2013-01-25	7196b64c2f89763d2ea7f0f106d06352ae2c0e17a83fed2d10548e1aefa39245	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77X-UD4H	2013-01-07	3ff3a0cad413c0b862ba515d60cac0e98e373e199f0d92c79a77ebe6fa6a2247	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Q77M-D2H (rev. 1.0)	2012-12-20	43216a565586f1c49090c7982e6f3c1e41b179e430d7ac0c47c8ad07308a5bc3	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77-HD4	2012-12-03	f6cd8446d78da9720f06cd360a48e9b6bdae33e342e18cb05420adb78fe05858	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77-HD3	2012-11-21	c1209a2eb0b5eb9324e1a8ce11c77ca141023b94b988bd1df4db390dda4c275a	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77P-D3	2012-11-21	00fa676c6d12df8a48049f39b87e3343769356e880d2abcaf04ab1b679c450f9	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-Z77X-UP4 TH (rev. 1.0)	2012-11-21	c5310894b9a2bb510f37c49852d743d64343a698436ca22d9b7a44bcf20e447a	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	Q1742F	2012-08-09	350cc51e5e7fa472e95460eed374eb1f9a43ea4e615e2654c26a9da4d83bf529	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	GA-6UASL1 (rev. 1.0)	2012-07-04	f86f7ad9ffbc7437bba6bcf99d08b8de38f945bedff00c2d35362387077eabea	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Gigabyte	Q2542N	2012-06-28	3d6faf2792722d1b9fbff087e4d85ddd2a4f9922a7848ed4db99284687df3b23	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
HP	hp-proone-400-g1-19.5-inch-non-touch-all-in-one-pc	2020-04-29	642290f1b37e616b64b3c6b60921e24ddad599a38e67cd46a281b24c1ab62bb3	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-rp5-retail-system-model-5810	2020-04-29	2a090cfc69ebd88dbe2e2e9c52a7f3a75b8b150478e30a752c5c0f09129f3bc9	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-z1-all-in-one-g2-workstation	2020-04-28	d0a54ae69192d2d0289b2c9ae33a6ffd0a0db78189b41b032e18a3452c878eab	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-z228-microtower-workstation	2020-04-28	5174331d57cf3392012b00a6de381ee7a873f7fbd217bfa3e744b7dd6136807b	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-z820-workstation	2019-12-16	b02cdd16e398c2f31e9641d27d99865c404357136f857a1e2dcf2f7479b9457d	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
HP	hp-z420-workstation	2019-12-13	05e89382e73afb280f637acbfa1029e9107dd30c78df37b6a00f184657f5f2c3	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-z1-all-in-one-workstation	2019-06-18	b6fd5cd3364bd459f040c1693b879bbcf508513124bb95b5f36743efd8e73c	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-z220-convertible-minitower-workstation	2019-06-18	cc5a9c2d4827e9b1501c2dc0a464f580d4a2d65e4ff83dbab548e51839339d06	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-prodesk-400-g1-microtower-pc	2019-04-30	289f0fa72150a52f2b71bc6bf23f343ad9c1c412aa5977e89ffde7474562cb18	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-prodesk-600-g1-desktop-mini-pc	2019-04-30	a80a5c395fd3b28b0130d4579dd3e462f9e38bccb2a42cc5245cedd70b27ff0e	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-compaq-elite-8380-convertible-minitower-pc	2019-04-26	455164a23e14f8cc9567b458dfb85106294f149f0e446d2d8b4036551f894cf5	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-elitedesk-705-g1-desktop-mini-pc	2018-10-05	1650cfd06bb698ad3cecd9e0c38b0de04d29f9c397492ba70b985b033e2458da	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
HP	hp-compaq-pro-6305-microtower-pc	2018-03-22	44988d41019b5f5c7989b71e966b97752f60c835ba2300c7d55323ded97c21e6	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
HP	hp-elitedesk-800-g1-tower-pc	2017-05-26	659078fcdff1dead57cd05eafa0af4de667b52e981d1b907f0d963b41902dc7a	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Intel	BIOS Update [PNWHL357]	2023-12-18	a3fb2070233c4544bac73cd0f6578e65dfe5333cdec5a1e624806b4182127740	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Intel	BIOS Update [PNWHL57v]	2023-12-18	0f9dd355e6ab0369a9df46af391350acff375e9c1c7a488aa06e875f3ab06fd2	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Intel	Intel Server Board M10JNP2SB - Firmware Update Package - EFI BIOS 7220, BMC 8100.01.12	2023-04-03	ea519a5fd11f6a1955545f3c01fea145589b272c474f61c72437efda90f024bb	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Intel	Intel Server Board M10JNP2SB - Firmware Update Package - EFI BIOS 7219, BMC 8100.01.11	2022-12-13	388cd43e6007e7550c22eff47ca1b4527de8883e30a572ba43e4a9a00c8203ea	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Intel	BIOS Update [PYBSWCEL]	2022-09-15	58c40ea0349617cb985c09ebb5ee4b68e29149973a978fb0c6d829743f066ed9	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Intel	BIOS Update [RYBDWi35]	2022-08-03	4f10d0a51518dae11ee8dc79c0100863dae1a6fc4906c7b2961b7fae46d55c27	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Intel	Intel Server Board M10JNP2SB - Firmware Update Package - EFI BIOS 7218, BMC 8100.01.10	2022-06-29	460fda3a419e94caa56d17552e6acd4a67c678afb5b7e80b4651dda5956c54ac	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Intel	Intel Server Board M10JNP2SB - Firmware Update Package - EFI BIOS 7217, BMC 8100.01.10	2022-03-24	a132cd6038454085a5d1fe961a70d08c7afb17c6a1b846a71ddb4c08edcae652	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Intel	Intel Server Board M10JNP2SB - Firmware Update Package - EFI BIOS 7216, BMC 8100.01.10	2021-06-29	e871223077aedfb6983ab46ee71b1a1308797f2f0235b77b9cb4792d04d9f06f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Intel	BIOS Update for Compute Stick - FCBYT10H	2019-06-20	15753d6bbf2540a717d841039b52b42236532463df259e19c12f6072d07b1680	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Lenovo	lenovo-10w-type-82st-82su	2023-12-04	69dae6e64125b37fa0ee09f5cd9bf3581b3244e99d9b4651395834f9eef021af	-3d:0b:41:88:17:bb:6d:55:b0:d6:79:ba:5e:56:d3:a7
Lenovo	thinkcentre-edge-62z	2018-09-05	b04cc879ac09941e714a8ccce371111bcbbc8d7b1dd1ecdc823de09fd2dad7b3	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Lenovo	thinkcentre-m72z	2018-08-30	4438137139edb1e04de7e265e94444e1c87316b0821178285d87763f00bcc5df	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Lenovo	thinkcentre-edge-92z	2018-08-28	e37c7b66aef1c9702b08f3d08a41edf3e4617fc94a17f318297506868e1d254e	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Lenovo	thinkcentre-m62z	2018-08-20	76c5461e86a33095c4191aa02ccb85cdad5f24ac9c816fb8ab6f408cf32dcd	1a:a9:c7:61:c8:6a:be:88:4d:85:f5:ad:2b:95:3b:f1
Lenovo	lenovo-62-desktop	2018-08-15	73a8fdf89ed1a2d0af45142f4b4498545ce4182ca704ad2b292490263480b1fd	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Lenovo	aio-510-22asr	2016-07-28	47affcc25ded66333920985902473398438b49dac28be82542062ddabffec3c8	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Lenovo	aio-300-22isu	2016-05-24	a6b6a2940a5f4c98e2f531624707fd8ab7dc61f4b3d3de0457fe00ba3cc5c135	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Lenovo	lenovo-c460-all-in-one	2016-05-24	1235ca01cc48484db1157b312ec1632c45be511cfbff28d25404df0a3df47148	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Lenovo	lenovo-c365-all-in-one	2015-09-02	7cf94927f6826886883baf229f3cc2f2545588a564ddb7583f2b52853aeb5b21	-1b:ed:93:e2:59:4e:2b:60:be:6b:1f:01:c9:af:a6:37
Lenovo	lenovo-erazer-x700-desktop	2015-04-14	8dbcebb69c00242f0a346c34776171061d606262f412e92f84be99301d413c21	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Lenovo	lenovo-h520e-desktop	2014-10-13	0ee94a5c0d4b93a2a1618d144bb0a505865a5d308c484c80fc26fe31f23617a	-45:d3:fd:00:33:52:5d:45:b5:36:de:47:4e:15:cc:56
Supermicro	SYS-111R-M	2023-12-08	820704fd75742704a1353676a294db6a65613215811a8baf07d16bd27a031f00	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	SYS-511R-W	2023-12-07	b792f054fdde0a191e6658cf8fa9c1a41dcf7ecf34638e37be8500904ba91828	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	SYS-521R-T	2023-12-07	b6bec4b2f9d19f9e2c5b7376b8c57ebc785d628c17727bef244f71b81842f7d4	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	SYS-531R-I	2023-12-07	12f346e133f434f1feae568398e1deb7d3259abceadee9fa16c16907d9c70f99	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	MBD-X11SRI-IF	2023-08-17	bcf8c4093307c2371328f17ccd3b5d715c86884b0b4d76ed72e5cc85d55a6a5f	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	AS -4124GQ-TNMI	2023-08-10	d5b2fb249bfea79224982d0663843ccf814511ba2054f37c18102ba06b312b31	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	AS -1115HS-TNR	2023-07-24	7dada64f6f30ab87378fbbca438af791d400c479136c1d242379c1d7b902bbff	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	AS-1125HS-TNR	2023-07-24	7baa4130f706fbd8bde62335624639c97f87db75f36829343b1ac4308537a016	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	ASG-1115S-NE316R	2023-07-19	d9d67617b937f81ba4aad448872fd221ae50a5d332790e01a5f32d0a16c0ea0c	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	AS-2115HS-TNR	2023-07-13	69435f07950d22aac588c96e2cdecf95664cc1c4e198c0d0dc1fda4ecde8cb1c	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	MBD-H13SSH	2023-05-26	568f9112ae5c8c434f719ce25a3a00fe7e4f3a810e574b9ef6df474de050b971	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	MBD-H12DSG-Q-CPU6	2023-04-21	730417639fc5e894029fb0f33f8c5ea8c82829f1b4ea26d8f203f226a868b25a	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	MBD-H13DSH	2023-04-19	7020840751b252a1943563ceffe77d547eb5650dbe8c063b202034943eebfa77	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	MBD-H12DGO-6	2023-04-18	81c9d66ad0e9687e13eb4f7cc66838b64a3f4a2541ccb1844062780f6a85df9f	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	MBD-H12SSW-AN6	2023-04-18	c217692eb826ad399f33fcd12a2f1092764c3a584d4a135f646e7acb3cc18a73	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	MBD-H13SSL-N	2023-04-17	eafef2e3c5fda9b4b79472971e449841fef7c82955fe40b57e6e07e82e9930eb	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	MBD-H13SSW	2023-04-17	7271649a13e3c24272d267e156709566539f8110e1205e8eeb15d5a16693b8c1	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	MBD-H12DSU-iN	2023-04-13	0b4ccd02bd1e5e218672f1f959b76b621da86568b022b8f53f6e6c4de67c6745	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	MBD-H12DSI-N6	2023-04-13	7c4bc9a577443b1d8abffc2344cbc82691e72c2f53c0acde4b9ff7f56e11a0df	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	MBD-H12DGQ-NT6	2023-03-07	e3776bf7f73b11117981241dd64a0019bf291a426da3848373ca628712acbf7a	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	AS-2015S-TNRT	2023-02-14	a6e003c1b9741bd83f06f629f18de8a5b6894a1eda7fd2c1106e7e8ef426a080	-08:c2:d1:c3:6c:9b:51:4f:b3:7c:6a:02:08:12:cd:59
Supermicro	MBD-X10DRG-H	2021-08-30	f2ed430067a489c48097613a59efb70f8839a1566fbbca2d21c095aefb3ff6b	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	MBD-X10DRH-CLN4	2021-08-20	59c97a873b83805e85b600dbf9c636c8627b41324b119aa467f08f893b206c50	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	MBD-X10DRH-C	2021-08-16	0b742278b6d0a0cf765533ee8e1556ccc9604c9a21f9b3171ad355966fcee6d4	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	MBD-X10DRI-T	2021-08-16	0c0673750621ec4ba9bbdbac012bd647b1694b95afa06d555fe90f9fe1194339	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	SYS-4028GR-TXRT	2021-02-23	bc1e729e6829e152fb7e9b894fc6d095ffe4d58d51dc4dad1037194c97040a63	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	MBD-X11QPL	2020-02-24	d45f4621d8c40a27d4f4bcb5592a0baef7febe5bdf9f675963feab6230ec1c84	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Supermicro	X10DRG-H(T)	2019-09-18	a6e89dcb0b60bfad1fd21d6758d8a7992f9974a97eee68a43b74b7bd41fecc0f	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	B11DPT	2019-09-06	b870f5071c2aaba57a714d409e27ba15c5bc2476ec5e16471a79f4272f23ea5a	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X11QPH+	2019-08-22	a39c7ae750563f43f67a832de470a146f11e27b68f9701c7f7b923c67c7c4eb7	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X10DGO(-T)	2019-08-13	36d7ec07dd40eb7d04ddc1cee863b305aa1f94793e2e8c412fe19305f4ad05af	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X10DRG-O(T)-CPU	2019-08-13	40f669bbaf52817b50afe1b82c1a1c6e871c0bf0f9c3530ab71795df0f6cc3d0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X10DRH-C(T)/i(T)	2019-06-25	0576f39f5466efebf98fc88b94ec159ac2f0fb081b7a6e41f5ae41aa04229963	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X10DSC-TP4S	2019-06-14	8afa0734898f2ec3efb412ac1833893fb5c5a13a7d469da82a584935dbc6d380	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X11DPS-RE	2019-06-11	fd8a767a767843abdd7165a1e1819463bc5195f169f0c570ae18dddc68d2f2029	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	B11QPI	2019-06-07	d128e52fb7278f14b6fe042982750ac0de39e4c32d10b771e039270603719aec	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	B11DPE	2019-05-29	beb4e0a939a94256d65d981ba8d7c36fd4297a56dfa43a05520348817e67e60	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X10DGQ	2019-05-24	087c1514ebc0d13f4af3dc7fbf9dc9c1d6e5f359aad83d7da82f70af2af52327	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X11SCH-F/LN4F	2019-05-24	a42a7f0f1c689c716915d4e3b9f611f4a586006d90de40f8661bf161427c207b	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	MBD-X10QRH+	2019-05-20	38140281034258af8fe25f387e4679b3779153c4228e1afb4e1991e3550a1766	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X10DAC/X10DAi	2019-05-16	d57788e98ea0f85672d29642e88f3d26aac27167bd3128ef9510bac06357681c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	AOM-X11OPI-LBG-P/MBD-X11OPI-CPU-P	2019-05-10	058995906709407a71b19f551a86d38265bc75938334a0bdbfae7e14d6b00ac7	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X11DPG-SN	2019-05-10	5d11d805debd6de0251df46a6d284fb76e1a4ef6b5981aa8e2782dcc29605e63	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X11DGQ	2019-05-09	3005d1aec88adf5b46c7cbea0465d50f2e6845b76b05419068f10d1aa7325652	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X11SSE8_308	2019-05-09	94a0261c16595d3eaae502cc7762d65ab6fcdabf49f16671d157536ac520d710	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X11DPG-HGX2	2019-05-03	275bbd2e442fe8133c90beb65416ac3e2ba5d2933899348818287b6dfaa25e07	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X11DPI-N(T)	2019-04-26	389f7518b4dd4e7eea1f595f9199693620b3cb5d542a609e709904f0b77675cd	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X11DPI-N(T)	2019-04-01	849db7bb59486d02674bf6ca0c5d5577cba502b5c2f0d13ed6945fd466df00ec	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X11OPi	2019-03-08	635060eff5f4c73209cb6fd8b6b4767f46c17267a24aa6c471dbbe656bcc65d4	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	C7Z270L8_222	2019-02-26	0d46bee3f5e5dabcaf681d3504a98b200ee88cc281e1a637ecf9fe19f89609b6	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	B11QPI-T	2019-02-22	185a6593df982988acc7d45f20c9dd32c001eb6e7b007e3ecf629c5fa9e241e9	55:fb:ef:87:81:23:00:84:47:17:0b:b3:cd:87:3a:f4
Supermicro	X10DGQ	2018-08-10	b26e209c2130e5a63a463ad9822207193129ef71c4711e7f5eb92413913cbebc	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X11SPM-F/TF/TPF	2018-07-18	e32be96a89d68dc8a2c139661ac97d9d386fc423c3a9c634e6ca297cf698086c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X10DRG-O+-CPU	2018-07-13	734c6bf51e8f8bd818c62b9537d3a0a3d8dc41422e1492ff37820b10117d0341	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	B10DRC(-N)/B10DRi(-N)	2018-07-12	b4e5fb76ded30a7ff637594dbdf5b42536fb901c46e79e08e959e917c4b3ca2c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X11DPT-PS	2018-07-03	c1ea6692e794cd6b1b1356bd732ea6b9b356fa39ace2db188621206db5ffaa97	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	A2SAV7_C21	2018-07-03	d6a43b8be868b805526e1b9134b55bc3c11cd55b8682d8f8061e7d4a334c67f4	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	SMT_H11AST2500_128	2018-06-11	7851382c8f7de972642dd281ecc6bde1f65c4e64c9f38e25620e55e3c158c010	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b

Vendor	Model	Release Date	Firmware SHA256	Certificate Serial Number
Supermicro	X10DRH-CLN4/ILN4	2018-06-11	e12ffd9424cc767bfafd323751fd9c7207ce41e0d8f4799609fb33cde21fe6c9	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X10DAi7_605	2018-04-12	3c3bbc8888a8e32dc68be3b193ea1195983c81d2716d413e298f947f20cd8d5a	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	B10DRG-TP/IBF/IBF2	2018-03-05	9645373bfe52b74402acc2dd790dc9903a7ccb79dc12dc1e7998681493328967	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	b10dri7_615	2018-03-05	509991c552d7cdae0ed1dc9312bca849bd4535d8c60c0bb367f6356a320ab98e	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	C7SIMQ7_602	2018-02-28	91782952a9057e5291aa0bf5f8ef39914a01f4356d775fd384706c2f01e13396	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X11SAT7_519	2018-02-28	898f124a909d279d121cd6d0e1bfec40c3e66c8435d581250e7b663a17fe88ec	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	SMT_X11AST2500_126	2018-02-27	55affbeaebd3165d8a55f49ebfb2f003c135d2d0cc22061e9bf4a7dcfb436e8d	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X10DRDL7_414	2018-02-23	feb3823f914b24b420302a3c276c02504ac1342f02e96985a63498e59dc504bb	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X11SPM7_622	2018-02-23	dc9ba822fa052512c1a01769dde88d640e4593442d8cb8c373a0d036df6b46a1	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	SMT_X11_136	2018-02-13	b207bb421fa1f3c2d9d0f01d1df4cc04b3f86dbfa737a8d71a96f2f945aa5459	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X10SRD7_331	2018-02-05	0a622c0a32dfc2f3c6d11c01f1613a12ecc17ea81cf81872ec631810d95e6dff	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X11SAE7_518	2018-02-05	85dcd9f472e3d8dc7fe71bc2e3a3d51d81b1fb56d750c6896280fb11380d3cb0	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	X11SSMF7_309	2018-02-01	af0663404ee7ebc906d3af4e574ef2c4e0720884afd7f0e38d0527e05c42f660	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b
Supermicro	C7Z270L7_222	2018-01-26	c7872c61cb893cfb70cf5defba2c715fdd99461581f1ef0d62c82945b740c87c	-15:fe:0d:04:9b:3b:74:70:bc:6f:1a:d2:96:ed:c4:7b