

# ASUS Update Regarding Mitigation for Known Intel CPU Vulnerabilities

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ASUS is aware of recent security research disclosing potential security vulnerabilities in Intel® CSME, Intel® SPS, Intel® TXE, Intel® AMT, Intel® PTT and/or Intel® DAL chipsets. These vulnerabilities may result in:

- Improper privilege changes;
- Denial of service;
- Disclosure of information.

ASUS is working closely with platform owners to provide firmware and software updates for all affected devices, to mitigate potential risks associated with the vulnerabilities that have been identified.

## Symptom Description

Multiple potential security vulnerabilities in Intel® Converged Security and Manageability Engine (CSME), Intel® Server Platform Services (SPS), Intel® Trusted Execution Engine (TXE), Intel® Active Management Technology (AMT), Intel® Platform Trust Technology (PTT) and/or Intel® Dynamic Application Loader (DAL) may allow improper privilege changes or escalation, denial of service, or disclosure of information.

The following Intel-based platforms are impacted by the issues, and the list may be modified based on updates provided by platform owners, at a later time.

- 7th Generation Intel® Core™ processors
- 8th Generation Intel® Core™ processors
- 9th Generation Intel® Core™ processors
- Intel® Atom™ Processor Z Series
- Intel® Celeron® Processor J Series
- Intel® Celeron® Processor N Series
- Intel® Pentium® Processor J Series
- Intel® Pentium® Processor N Series

For details, visit [Intel Security Center](#).

## ASUS Solutions

ASUS will provide BIOS updates designed to protect all potentially affected devices from these known vulnerabilities. Although applying the BIOS update will mitigate risks, computer performance may be impacted. If a device is affected, performance impacts will be workload-dependent and may vary, depending on the generation of the hardware in use and its implementation by the chip manufacturer. Performance impacts should be limited or insignificant for most users.

### (1)ASUS BIOS Update

Please find the ASUS model list below. We are working with Intel to make new BIOS updates available and will release them to customers as soon as possible.

<https://www.asus.com/support/#>.

More details will be added to this document as they become available.

**In order to successfully install the latest BIOS update, please keep your computer plugged in and do not turn off your computer during the BIOS update process.**

### Consumer Laptops:

System Model Name	Version
E201NA_C	311
E203MA	320
E406MA	324
R421FPY	202
TP401MA	325
TP401MAR	300
UX333FN	311
UX334FAC	306
UX334FL	304
UX334FLC	306
UX362FA	306
UX392FA	305
UX392FN	305
UX433FN	310
UX434FAC	305
UX434FL	304

System Model Name	Version
UX434FLC	305
UX463FA	305
UX463FL	305
UX481FA	307
UX481FAY	301
UX481FL	308
UX481FLY	301
UX534FAC	306
UX534FTC	305
UX562FA	307
UX562FAC	304
UX563FD	305
UX581GV	307
X409MA	301
X409UA	303
X412FA	306
X412FAC	302
X412FJ	307
X412FJC	302
X412FL	307
X412FLC	302
X412UA	306
X420FA	309
X420FAC	302
X421FA	302
X421FAY	301
X421FFY	300
X421FL	302
X421FPY	301
X421FQY	204
X432FA	307
X432FAC	305
X432FL	307
X432FLC	305
X441MA	315
X441MAR	300
X441UA	318
X441UB	308

System Model Name	Version
X509FA	303
X509FB	303
X509MA	301
X512FA	305
X512FAC	303
X512FB	306
X512FBC	303
X512FJ	306
X512FJC	303
X512FL	306
X512FLC	303
X521FA	300
X521FL	300
X531FA	302
X531FAC	301
X531FL	302
X531FLC	301
X532FA	305
X532FAC	305
X532FL	305
X532FLC	305
X540MA	315
X540UA	305
X540UB	305
X545FA	301
X545FB	301
X545FJ	301
X580GD	322
X705MA	311
X705UA	315
X712FA	311
X712FAC	304
X712FB	311
X712FBC	304
W500G5T	301
W500GV	301
W700G1T	309
W700G2T	309

System Model Name	Version
W700G3T	310
W700GV	305
W730G1T	301
W730G2T	301
W730G5T	212

**Commercial Laptop:**

System Model Name	Version
B9450FA	302
P1440FA	310
P1440FAC	301
P1440FB	310
P2540FAC	300
P2540FB	307
P2540MB	304
P2540UA	312
P3540FA	309
P3540FB	309
P5440FA	311
P5440FAI	301
P5440FF	309
P5440FFI	301
PU403UA	312

**Gaming Laptop:**

System Model Name	Version
GL702VI	309
GL503VS	308
GX501VIK	313
GX501VSK	313
G703VI	312
GM501GS	315
GM501GM	315
GU501GM	315
GL504GS	309
GL504GM	312
FX504GD	319
FX504GE	320

System Model Name	Version
FX504GM	310
GL503GE	318
GL703GE	320
G703GI	314
G703GS	313
GX501GI	311
GL703GS	311
GL703GM	311
FX505GE	307
FX505GD	307
FX505GM	307
FX705GE	306
FX705GD	306
FX705GM	307
GL704GM	309
GL704GW	309
GL704GV	309
GX531GS	304
GX531GM	305
GZ700GX	303
GX531GX	307
GX531GW	307
GX531GV	305
GL504GW	306
GL504GV	308
G703GX	308
G531GW	307
G531GV	307
G531GU	309
G531GT	307
G531GD	308
GX701GX	309
GX701GW	306
GX701GV	307
G731GW	308
G731GV	308
G731GU	310
G731GT	307

System Model Name	Version
G703GXR	303
GX502GW	310
GX502GV	310
GU502GW	309
GU502GV	309
GU502GU	309
GX531GXR	305
GX531GWR	305
GX531GXH	307
GX701GXR	307
GX701GWR	308
GX701GVR	306
GX701GXH	305
FX505GU	304
FX505GT	307

**Desktop:**

System Model Name	Version
D640MB	324
D540MA-C	310
D340MC-C	310
D840MB	316
D641MD	312
D940MX	303
D520MT-K	1012
D320MT-K	1013
S340MF	309
D640MB-R	305
D642MF	305
D324MT	0613
D630MT	0715
D830MT	0814

**Gaming Desktop:**

Model Name	Version
FX10CP	307
GL12CP	313
GL10CS	311

System Model Name	Version
GL12CS	308
G21CN	312
GL12CX	310
GL12CX-C	310
G21CX	305
G21CN-D	303
G15CX	302
G15CS	302

**AIO:**

System Model Name	Version
V222UA	309
V222UB	309
V241FA	308
V241FF	308
V161GA	308
V222GA	308
V272UA	306
V272UN	306
Z272SD	304
ZN242GD	308



## Important Notice: ASUS BIOS Update FAQ

- How do I determine the model name and number of my device?  
<https://www.asus.com/support/FAQ/1030673>
- How do I use Winflash to update the BIOS version in my Windows system?  
<https://www.asus.com/support/FAQ/1008276>  
In order to successfully install the latest BIOS update, please keep your computer plugged in and do not turn off your computer during the BIOS update process.
- Further questions? Contact us at <https://www.asus.com/support/>

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