



Tiger Lake Platforms Platforms RVP/CRB BIOS Release Notes

Tiger Lake – Tiger Point PCH

April 2019

RVP BIOS

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1 SPI Images

1.1 SPI Images for Comet Lake (TGL-PCH) platforms

This release doesn't include full SPI Image.

To create either 1x32M full SPI image of the CRB BIOS:

1. Download latest System BIOS
2. Search for the latest Intel® Management Engine Firmware kit.
3. Download and install the Intel® ME Firmware kit.
4. Follow instructions to build appropriate full image as described in the "Intel(R) ME FW Bring Up Guide" document (part of the Intel® ME Firmware kit)



2 Supported Hot Keys

CTRL+ALT+SHIFT+<KEY> causes a Hot-Key Event to the SBIOS. The specific <KEY> to complete the sequence is defined in the following table.

2.1 ACPI Hot-keys

F1	IGFX Display Switch using Toggle List 1.
F2	IGFX Display Switch using Toggle List 2.
F3	IGFX Display Switch using Toggle List 3.
F4	IGFX Display Switch using Toggle List 4.
F5	Virtual Power Switch Event (Toggle between Virtual AC and Virtual Battery Mode)
F8	IGFX Panel Fitting Hot-Key
F9	IGFX LCD Brightness Level – Decrease 10% if percentage > = 10%
F10	IGFX LCD Brightness Level – Increase 10% if percentage < = 90%
1/!	10% Virtual Battery
2/@	20% Virtual Battery
3/#	30% Virtual Battery
4/\$	40% Virtual Battery
5/%	50% Virtual Battery
6/^	60% Virtual Battery
7/&	70% Virtual Battery
8/*	80% Virtual Battery
9/(90% Virtual Battery
0/)	100% Virtual Battery
-/_	Virtual Battery % = Virtual Battery – 2%
= /+	Virtual Battery % = Virtual Battery + 2%

Notes:

1. The Virtual Battery hot-key values are a single key with dual purposes.
2. IGFX hot-keys are only supported when IGFX is present and is the primary display device. If that is not the case, the hot-keys will be disabled.
3. The virtual battery hot-keys are only valid when a virtual battery is present. If any real battery is present at all, these hot-keys are disabled. Additionally, the user will only be allowed to decrease battery percentages when in virtual battery mode and will only allow the user to increase battery percentages when in virtual AC Mode. Also, please note that some operating systems only display battery percentage differences that are $\geq \pm 4\%$.
4. All of the above hot-keys work in ONLY ACPI aware operating systems.



3 BIOS – TGL RVP 3163.01

BIOS version	3163_01_269
Silicon Init Code Version	0A.00.22.31
FSP Version	0A.00.23.31
MRC Version	0.6.6.5
GOP Driver	1037
Boot Guard ACM	n/a
BIOS Guard ACM	n/a
RST VMD Driver	18.0.0.4681
MEBx	15.0.0.0001

3.1 Highlights

- Update Si Int Code
- Update MCU
- Update RST

3.2 Resolved Client BIOS issues

n/a



4 BIOS – TGL RVP 2527.22

BIOS version	2527.22
Silicon Init Code Version	0A.00.12.22
FSP Version	0A.00.13.22
MRC Version	0.5.4.4
GOP Driver	V1031
Boot Guard ACM	v1.12.32
BIOS Guard ACM	n/a
RST VMD Driver	18.0.0.4575
MEBx	15.0.0.0001

4.1 Highlights

Update Si Int Code

Update MCU

4.2 Resolved Client BIOS issues

n/a



5 BIOS – TGL RVP 2527.17

BIOS version	2527_17_84
Silicon Init Code Version	0A.00.12.17
FSP Version	0A.00.13.17
MRC Version	0.5.4.4
GOP Driver	V1031
Boot Guard ACM	v1.12.32
BIOS Guard ACM	n/a
RST VMD Driver	18.0.0.4575
MEBx	15.0.0.0001

5.1 Highlights

Update Si Int Code

Update MCU

5.2 Resolved Client BIOS issues

n/a



6 BIOS – TGL RVP 2527.14

BIOS version	2527.14
Silicon Init Code Version	0A.00.12.14
FSP Version	0A.00.13.14
MRC Version	0.5.4.4
GOP Driver	V1031
Boot Guard ACM	v1.12.32
BIOS Guard ACM	No Version Found.
RST VMD Driver	18.0.0.4575
MEBx	15.0.0.0001

6.1 Highlights

Update Si Int Code

Update MCU

6.2 Resolved Client BIOS issues

n/a



7 BIOS – TGL RVP 2527.10

BIOS version	2527.10
Silicon Init Code Version	0A.00.12.14
FSP Version	0A.00.13.14
MRC Version	0.5.4.4
GOP Driver	V1031
Boot Guard ACM	v1.12.32
BIOS Guard ACM	N/A
RST VMD Driver	18.0.0.4575
MEBx	15.0.0.0001

7.1 Highlights

Update Si Int Code

7.2 Resolved Client BIOS issues

n/a



8 BIOS – TGL RVP 2527.07

BIOS version	2527.05
Silicon Init Code Version	0A.00.12.14
FSP Version	0A.00.13.14
MRC Version	0.5.4.4
GOP Driver	V1031
Boot Guard ACM	v1.12.32
BIOS Guard ACM	2.0.4318
RST VMD Driver	18.0.0.4575
MEBx	15.0.0.0001

8.1 Highlights

Update Si Int Code

8.2 Resolved Client BIOS issues

n/a



9 BIOS – TGL RVP 2527.05

BIOS version	2527.05
Silicon Init Code Version	0A.00.12.14
FSP Version	0A.00.13.14
MRC Version	0.5.4.3
GOP Driver	V1031
Boot Guard ACM	v1.12.32
BIOS Guard ACM	2.0.4318
RST VMD Driver	18.0.0.4575
MEBx	15.0.0.0001

9.1 Highlights

- Update Si Int Code
- Update GOP
- Update MCU
- Update RST
- Update Boot guard ACM
- Update BIOS guard ACM

9.2 Resolved Client BIOS issues

n/a



10 BIOS – TGL RVP 2457.16

BIOS version	2423.05
Client Silicon revision	0.2.0.15
FSP Version	0A.00.0C.20
RC Version	0A.00.0B.20
MRC Version	0.4.4.11
GOP Driver	17.0.1025
Boot Guard ACM	1.12.26:
BIOS Guard ACM	2.0.4318
RST VMD	18.0.0.4437

10.1 Highlights

- Update Si Int Code
- Update GOP
- Update MCU
- Update RST
- Update Boot guard ACM
- Update BIOS guard ACM

10.2 Resolved Client BIOS issues

n/a



11 BIOS – TGL RVP 2423.5

BIOS version	2423.05
BP common core revision	EDK201905
Si Code Version	0A.00.08.15
FSP Version	0A.00.09.15
MRC Version	0.4.4.0
Microcode TGL-Ax Version	m_80_806c0_0000003e
GOP Driver	1025
Boot Guard ACM	1.12.26
BIOS Guard ACM	2.0.4318
RST VMD Driver	18.0.0.4428

11.1 Highlights

- Update Si Int Code
- Update GOP
- Update Boot guard ACM
- Update BIOS guard ACM

11.2 Resolved Client BIOS issues

n/a



12 BIOS – TGL RVP 2423.1

BIOS version	2423.01
BP common core revision	EDK201905
Client Silicon revision	0.2.0.15
FSP Version	0A.00.09.11
RC Version	0A.00.08.11
MRC Version	0.4.4.0
Microcode TGL-Ax Version	m_80_806c0_0000003a
GOP Driver	17.0.1019
Boot Guard ACM	1.11.0
BIOS Guard ACM	2.0.4318

12.1 Highlights

Si Int Code Update

12.2 Resolved Client BIOS issues

n/a



13 BIOS – TGL RVP 2401

BIOS version	2401
BP common core revision	EDK201905
Client Silicon revision	0.2.0.15
FSP Version	0A.00.08.20
RC Version	0A.00.07.20
MRC Version	0.4.0.23
Microcode TGL-Ax Version	m_80_806c0_00000034
GOP Driver	17.0.1019
Boot Guard ACM	1.11.0
BIOS Guard ACM	2.0.4318

13.1 Highlights

- Si Int Code Update
- MCU Update
- Update GOP
- Update BIOS guard
- Update Boot guard

13.2 Resolved Client BIOS issues

n/a



14 BIOS – TGL RVP 2321

BIOS version	2321
EDK Core revision	EDK201905
Client Silicon revision	10.07.01.70
FSP Version	10.07.01.70
MRC Version	0.3.10.43
GOP Driver	1010
EC Version	1.06
Boot Guard ACM	1.9.0
BIOS Guard ACM	2.0.4318
RST RAID Driver	16.0.0.2758
MEBx	NA

14.1 Highlights

Si Int Code Update
MRC Update

14.2 Resolved Client BIOS issues

n/a



15 BIOS – TGL RVP 2301

BIOS version	2301
EDK Core revision	EDK201905
Client Silicon revision	08.07.01.40
FSP Version	10.07.01.10
MRC Version	0.3.10.22
GOP Driver	1010
EC Version	1.06
Boot Guard ACM	1.9.0
BIOS Guard ACM	2.0.4318
RST RAID Driver	16.0.0.2758
MEBx	NA

15.1 Highlights

EDK Core update
MRC Update

15.2 Resolved Client BIOS issues

n/a



16 BIOS – TGL RVP 2291

BIOS version	2291
EDK Core revision	EDK201811
Client Silicon revision	2291
FSP Version	2291
MRC Version	0.3.10.5
GOP Driver	1010
EC Version	1.06
Boot Guard ACM	1.9.0
BIOS Guard ACM	2.0.4318
RST RAID Driver	16.0.0.2758
MEBx	NA

16.1 Highlights

Si Code Update

16.2 Resolved Client BIOS issues

n/a



17 BIOS – TGL RVP 2285

BIOS version	2285
EDK Core revision	EDK201811
Client Silicon revision	2285
FSP Version	2285
MRC Version	0.3.10.5
GOP Driver	1010
EC Version	1.06
Boot Guard ACM	1.9.0
BIOS Guard ACM	2.0.4318
RST RAID Driver	16.0.0.2758
MEBx	NA

17.1 Highlights

- MCU Update
- Si Code Update
- GOP driver Update
- EC Version Update
- Boot Guard ACM Update
- BIOS Guard ACM Update
- RST RAID Driver Update

17.2 Resolved Client BIOS issues

n/a



18 BIOS – TGL RVP 2265

BIOS version	2265
EDK Core revision	EDK201811
Client Silicon revision	n/a
FSP Version	n/a
RC Version	n/a
MRC Version	0.3.0.5
GOP Driver	17.0.1016
EC Version	1.0X08

18.1 Highlights

n/a

18.2 Resolved Client BIOS issues

n/a