

## AAEON IPC EC Command Set User Guide

---

Most Confidential	
Confidential	V
Internal	V
Public	

May 2020  
Revision 0.1(draft)

## Revision History

Revision	Description	Date	Editor
0.1(draft)	Initial Release	2020/04/08	Ayers_Deng

# Contents

Revision History	2
Contents	3
Chapter 1 Introduction	4
1.1 Principle	4
Chapter 2 AAEON IPC EC Command Set	5
2.1 I/O Command Set	5
2.2 CMD 8Eh/9Eh Index Table	13
2.3 CMD CCh/CDh Index Table	15
Chapter 3 AAEON IPC EC Command Set (Extended)	18
3.1 I/O Command Set	18

# Chapter 1 Introduction


## 1.1 Principle

Text

## Chapter 2 AAEON IPC EC Command Set


Host side OS utility/application can use IO port 0x584(DAT port) and 0x585(CMD port) to access/communicate with EC FW.

### 2.1 I/O Command Set

CMD	Function	Description/Usage														
0x85	Get Panel brightness	<div>Send Byte0: </div> <div>(Panel Source)</div> <table><tr><th>High nibble[7:4] - Type</th><th>Low nibble[3:0] - Number</th></tr><tr><td>1 - eDP</td><td>x - refer Note</td></tr><tr><td>2 - LVDS</td><td>x - refer Note</td></tr><tr><td>3 - HDMI</td><td>x - refer Note</td></tr><tr><td>4 - DP</td><td>x - refer Note</td></tr><tr><td colspan="2">0xFF - Reserved for special case</td></tr><tr><td colspan="2">Note: Number follow motherboard printing number, or zero as default(if exist)</td></tr></table> <div>Received Byte0: Brightness percentage level 0 to 100%</div>	High nibble[7:4] - Type	Low nibble[3:0] - Number	1 - eDP	x - refer Note	2 - LVDS	x - refer Note	3 - HDMI	x - refer Note	4 - DP	x - refer Note	0xFF - Reserved for special case		Note: Number follow motherboard printing number, or zero as default(if exist)	
High nibble[7:4] - Type	Low nibble[3:0] - Number															
1 - eDP	x - refer Note															
2 - LVDS	x - refer Note															
3 - HDMI	x - refer Note															
4 - DP	x - refer Note															
0xFF - Reserved for special case																
Note: Number follow motherboard printing number, or zero as default(if exist)																
0x86	Set Panel brightness	<div>Byte0: Definition the same as <a href="#">CMD 0x85 “Send Byte0”</a></div> <div>Byte1: Definition the same as <a href="#">CMD 0x85 “Received Byte0”</a></div>														
0x8E	Read MISC function	<div>Send Byte0: Index number (refer to “<a href="#">CMD 8Eh/9Eh Index Table</a>”)</div>														
0x8F	Read HW ID	<div>Send Byte0: 0x00 - Board ID 0x01 - Panel ID</div> <div>Received Byte0: HW ID value 0xFF - Not Supported 0xFE - Invalid Parameter</div>														

0x97	Read FAN RPM	<div>Send Byte0: (FAN Source)</div> <table><tr><th>High nibble[7:4] - Type</th><th>Low nibble[3:0] - Number</th></tr><tr><td>0 - CPU</td><td>x - refer Note</td></tr><tr><td>1 - System</td><td>x - refer Note</td></tr><tr><td>2 - Chassis</td><td>x - refer Note</td></tr><tr><td>3 - Power Supply</td><td>x - refer Note</td></tr><tr><td>4 - GPU</td><td>x - refer Note</td></tr><tr><td colspan="2">0xFF - Reserved for special case</td></tr></table> <div>Note: Number follow motherboard printing number, or zero as default(if exist)</div> <div>Received Byte0: High Byte Byte1: Low Byte</div>	High nibble[7:4] - Type	Low nibble[3:0] - Number	0 - CPU	x - refer Note	1 - System	x - refer Note	2 - Chassis	x - refer Note	3 - Power Supply	x - refer Note	4 - GPU	x - refer Note	0xFF - Reserved for special case	
High nibble[7:4] - Type	Low nibble[3:0] - Number															
0 - CPU	x - refer Note															
1 - System	x - refer Note															
2 - Chassis	x - refer Note															
3 - Power Supply	x - refer Note															
4 - GPU	x - refer Note															
0xFF - Reserved for special case																
0x9E	Write MISC function	Byte0: Index number (refer to " <a href="#">CMD 8Eh/9Eh Index Table</a> ") Byte1: Write Data														
0xAA	Read I2C/SMBus	Todo (ARStmp)														
0xAB	Write I2C/SMBus	Todo (ARStmp)														

0xBB	Read EC FW version	Received
		<p>Case 1 - Standard Platform EC</p>
		<p>Byte0: 0x09 (return total bytes, included Byte0)</p> <p>Byte1: S - Standard platform EC  Byte2: I/A - Intel/AMD chipset  Byte3/4/5: Platform name  Byte6: F/H/T - EC kernel version type (Formal/Hot Fix/Test)  Byte7/8: version number</p> <p>Example:  SICMLFxx = Standard Intel CometLake Formal EC kernel FW</p>
		<p>Case2 - for Project / Customize dedicated EC</p>
		<p>Byte0: 0x13 (return total bytes, included Byte0)</p> <p>(part1)  Byte1: P/C - Project/Customize dedicated EC  Byte2: I/A - Intel/AMD chipset  Byte3/4/5: Platform name  Byte6: F/H/T - EC kernel version type (Formal/Hot Fix/Test)  Byte7/8: version number  Byte9: '.' - ASCII code 0x2E</p> <p>(part2)  Byte 10 to 14: PROJECT_TAG  Byte15: '.' - ASCII code 0x2E</p> <p>(part3)  Byte16: F/T - FW version type (Formal/Test)  Byte17/18: version number</p> <p>Example:  PICMLT01.SMH41.T01 =  part1 - Project Intel CML Test EC kernel FW  part2 - for project SMS-H410  part3 - first Test version</p>

0xBC	Board Capabilities	Type	Value
		Get FAN Sources	<p>Send Byte0: 0x10</p> <p>Received Byte0: Count (return total bytes, included Byte0) ByteX: Definition the same as <a href="#">CMD 0x97 "Send Byte0"</a></p>
		Get Temperature Sources	<p>Send Byte0: 0x12</p> <p>Received Byte0: Count (return total bytes, included Byte0) ByteX: Definition the same as <a href="#">Index 0x00 "Send Byte1"</a> of CMD 0xCCh/CDh Index Table</p>
		Get Voltage Sources	<p>Send Byte0: 0x14</p> <p>Received Byte0: Count (return total bytes, included Byte0) ByteX: Definition the same as <a href="#">CMD 0xD4 "Send Byte0"</a></p>
		Get LED Sources	<p>Send Byte0: 0x16</p> <p>Received Byte0: Count (return total bytes, included Byte0) ByteX: Definition the same as <a href="#">CMD 0xD2 "Send Byte0"</a></p>
		Get DIO Sources	<p>Send Byte0: 0x18</p> <p>Received Byte0: Count (return total bytes, included Byte0) ByteX: Definition the same as <a href="#">CMD 0xD0 "Send Byte0"</a></p>
		Get Panel Sources	<p>Send Byte0: 0x1A </p> <p>Received Byte0: Count (return total bytes, included Byte0) ByteX: Definition the same as <a href="#">CMD 0x85 "Send Byte0"</a></p>
		Get Power Mode	<p>Send Byte0: 0x20</p>



			<p>Received Byte0:  0x00 - ATX mode  0x01 - AT mode  0xFE - Reserved  0xFF - Not Supported</p>
0xC6	Get Watchdog status	Type	Value
		WDT status	<p>Send Byte0:  0x00</p> <p>Received Byte0:  0 - Inactive/Stop  1 - Activating</p>
		Second/Minute mode	<p>Send Byte0:  0x01</p> <p>Received Byte0:  0 - Second (default)  1 - Minute</p>
		Countdown value or Current Remaining value	<p>Send  Byte0: 0x02  Byte1:  0 - <a href="#">Countdown value</a>  1 - Current Remaining Value</p> <p>Received  Byte0: second  Byte1: minute (only <a href="#">Minute mode</a> report the byte)</p>
		WDT Expired	<p>Send Byte0:  0x03</p> <p>Received Byte0:  0 - not Expired  1 - Expired  Note: EC also set "<a href="#">WDT set(expired) LED</a>" if the project supported the feature)</p>

0xC7	Set Watchdog	Type	Value
		WDT Stop/Resume	<p>Byte0: 0x00</p> <p>Byte1: 0 - Stop WDT (EC will stop WDT counter and record currently timer <a href="#">Remaining Countdown value</a>. Turn off "<a href="#">WDT active LED</a>", if the project supported WDT LED feature)</p> <p>1 - Resume WDT (EC will restore previous <a href="#">Remaining Countdown value</a>. Turn on "<a href="#">WDT active LED</a>", if the project supported WDT LED feature)</p>
		Second/Minute mode	<p>Byte0: 0x01</p> <p>Byte1: Definition the same as <a href="#">CMD 0xC6 Second/Minute mode "Received Byte0"</a></p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. If WDT timer is activating, must Inactive/Stop WDT first through clear "<a href="#">Countdown value</a>" or set "<a href="#">WDT Stop/Resume</a>" value to 0</li> <li>2. Check status by "<a href="#">WDT status</a>" field</li> </ol>
		Countdown value	<p>Byte0: 0x02</p> <p>Byte1: Value (0~255 <a href="#">second or minute</a>)</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. Set value as 0 - clear countdown value and inactive WDT function</li> <li>2. Set valid value - active WDT function and start countdown</li> <li>3. Follow "<a href="#">WDT Stop/Resume</a>" LED behavior</li> </ol>
		Clear WDT Expired	<p>Byte0: 0x03</p> <p>Note: EC also clear "<a href="#">WDT set(expired) LED</a>" if the project supported the feature)</p>
		Reload/Retrigger WDT countdown value	<p>Byte0: 0x04</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. EC according <a href="#">Second/Minute mode</a> to Reload previous <a href="#">Countdown value</a></li> <li>2. Start WDT function</li> </ol>

0xCC	Read thermal related	Send Byte0: Index number (refer to “ <a href="#">CMD CCh/CDh Index Table</a> ”)
0xCD	Write thermal related	Byte0: Index number (refer to “ <a href="#">CMD CCh/CDh Index Table</a> ”) Byte1: Write Data
0xD0	Get DIO pin status	<div>Send Byte0: (Digital I/O Source)<div><div>Bit[5:4] - Header Number</div><div>Bit[3:0] - Pin Number</div><div>x - refer Note 1</div><div>x - refer Note 2</div><div>0xFF - Reserved for special case</div><div>Note:<div>1. Number follow motherboard printing number, or zero as default(if exist)</div><div>2. Number follow motherboard printing number, or one as default(if exist)</div></div></div></div> <div>Received Byte0:<div><div>Bit[3:2] - Mode</div><div>Bit[1:0] - Value</div><div>0 - Output</div><div>0 - Low</div><div>1 - High</div><div>1 - Input</div><div>0 - Low</div><div>1 - High (for Read)</div></div></div>
0xD1	Set DIO pin	Byte0: Definition the same as <a href="#">CMD 0xD0 “Send Byte0”</a> Byte1: Definition the same as <a href="#">CMD 0xD0 “Received Byte0”</a>

0xD2	Get LED status	Send Byte0:																						
		<table><tr><th>High nibble[7:4] - Type</th><th>Low nibble[3:0] - Number</th></tr><tr><td>0 - Power LED</td><td>0 - Power on LED (S0) 1 - AC IN LED 2 - Reserved 3 - Sleep LED (S3) 4 - Hibernate LED (S4) 5 - Soft off LED (S5)</td></tr><tr><td>1 - Battery LED</td><td>x - refer Note</td></tr><tr><td>2 - Watchdog LED</td><td>0 - WDT active LED 1 - WDT set(expired) LED</td></tr><tr><td>3 - Cap Lock LED</td><td>0</td></tr><tr><td>4 - Wireless LED</td><td>0</td></tr><tr><td>5 - Temperature Alert LED</td><td>x - refer Note</td></tr><tr><td>6 - FAN Alert LED</td><td>x - refer Note</td></tr><tr><td>7 - HDD Alarm LED (Note: On/Off controlled by SW)</td><td>x - refer Note</td></tr><tr><td>8 - Debug LED</td><td>0</td></tr><tr><td colspan="2">0xFF - Reserved for special case</td></tr><tr><td colspan="2">Note: Number follow motherboard printing number, or zero as default(if exist)</td></tr></table>	High nibble[7:4] - Type	Low nibble[3:0] - Number	0 - Power LED	0 - Power on LED (S0) 1 - AC IN LED 2 - Reserved 3 - Sleep LED (S3) 4 - Hibernate LED (S4) 5 - Soft off LED (S5)	1 - Battery LED	x - refer Note	2 - Watchdog LED	0 - WDT active LED 1 - WDT set(expired) LED	3 - Cap Lock LED	0	4 - Wireless LED	0	5 - Temperature Alert LED	x - refer Note	6 - FAN Alert LED	x - refer Note	7 - HDD Alarm LED (Note: On/Off controlled by SW)	x - refer Note	8 - Debug LED	0	0xFF - Reserved for special case	
High nibble[7:4] - Type	Low nibble[3:0] - Number																							
0 - Power LED	0 - Power on LED (S0) 1 - AC IN LED 2 - Reserved 3 - Sleep LED (S3) 4 - Hibernate LED (S4) 5 - Soft off LED (S5)																							
1 - Battery LED	x - refer Note																							
2 - Watchdog LED	0 - WDT active LED 1 - WDT set(expired) LED																							
3 - Cap Lock LED	0																							
4 - Wireless LED	0																							
5 - Temperature Alert LED	x - refer Note																							
6 - FAN Alert LED	x - refer Note																							
7 - HDD Alarm LED (Note: On/Off controlled by SW)	x - refer Note																							
8 - Debug LED	0																							
0xFF - Reserved for special case																								
Note: Number follow motherboard printing number, or zero as default(if exist)																								
		Received Byte0:																						
		<table><tr><th>LED type</th><th>Value</th></tr><tr><td>General purpose LED</td><td>0 - LED not active 1 - LED active</td></tr><tr><td>Debug LED status</td><td>HW Error: 0x11 - Power failure 0x12 - System unable to power on 0x13 - Processor not installed 0x14 - New Processor 0x15 - Memory not installed 0x16 - Memory error 0x17 - CPU temperature abnormal 0x18 - FAN speed fault 0x19 - Case open 0x1A - Storage not found SW Error: 0x40 - POST fail 0x41 - Pre-video memory error 0x42 - Pre-video graphics error 0x43 - Bootable volume not found 0x44 - ROM checksum not valid</td></tr></table>	LED type	Value	General purpose LED	0 - LED not active 1 - LED active	Debug LED status	HW Error: 0x11 - Power failure 0x12 - System unable to power on 0x13 - Processor not installed 0x14 - New Processor 0x15 - Memory not installed 0x16 - Memory error 0x17 - CPU temperature abnormal 0x18 - FAN speed fault 0x19 - Case open 0x1A - Storage not found SW Error: 0x40 - POST fail 0x41 - Pre-video memory error 0x42 - Pre-video graphics error 0x43 - Bootable volume not found 0x44 - ROM checksum not valid																
LED type	Value																							
General purpose LED	0 - LED not active 1 - LED active																							
Debug LED status	HW Error: 0x11 - Power failure 0x12 - System unable to power on 0x13 - Processor not installed 0x14 - New Processor 0x15 - Memory not installed 0x16 - Memory error 0x17 - CPU temperature abnormal 0x18 - FAN speed fault 0x19 - Case open 0x1A - Storage not found SW Error: 0x40 - POST fail 0x41 - Pre-video memory error 0x42 - Pre-video graphics error 0x43 - Bootable volume not found 0x44 - ROM checksum not valid																							

0xD3	Set LED	<p>Byte0: Definition the same as <a href="#">CMD 0xD2 "Send Byte0"</a></p> <p>Byte1: Definition the same as <a href="#">CMD 0xD2 "Received Byte0"</a></p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. Set value "0 - LED not active" also Clear the LED's related Alert status.</li> <li>2. Set value "1 - LED active" is for testing only which not really control the LED's behavior (ex. Alert status).</li> <li>3. Set value "2 - Toggle LED On/Off status" which is 1-times toggled only. (if LED is in Blink mode that the LED still be turn On or Off at specific time by EC)</li> </ol> <p>Note: Through <a href="#">Index 0xD0 "Get LED Blink mode"</a> and <a href="#">Index 0xD1 "Set LED Blink mode"</a> of the 8Eh/9Eh index table to operate LED Blink mode.</p>
0xD4	Get Voltage	<p>Send Byte0:</p> <p>(Voltage Source)</p> <p>0x00 - VCORE</p> <p>0x01 - VCOREREFIN</p> <p>0x02 - +12V</p> <p>0x03 - +5V</p> <p>0x04 - 5VSB</p> <p>0x05 - 5VDUAL</p> <p>0x06 - +3.3V</p> <p>0x07 - 3VSB</p> <p>0x08 - +1.8V</p> <p>0x09 - VMEM</p> <p>0x0A - RTC</p> <p>0x0B - VBAT</p> <p>0x12 - 12VSUS</p> <p>0xFF - Reserved for special case</p> <p>Received</p> <p>(Note: Get Voltage may spend 30ms at most)</p> <p>Byte0: Integer part of Voltage value</p> <p>Byte1: High byte of decimal point</p> <p>Byte2: Low byte of decimal point</p>

## 2.2 CMD 8Eh/9Eh Index Table

The index table intend for miscellaneous functions which access by CMD [0x8E](#), [0x9E](#).


Index	Function	Description/Usage
-------	----------	-------------------

0x40	Get FAN mode	<p>Send Byte1: Definition the same as <a href="#">CMD 0x97 "Send Byte0"</a></p> <p>Received Byte0:            0x00 - Auto (default)            0x01 - Silent            0x02 - Performance            0x03 - Full speed            0x10 - Manual (Get only. Through <a href="#">Index 0x43 "Set FAN duty"</a> of the 8Eh/9Eh index table to set value that EC will automatically change FAN mode to Manual mode)            0xFF - Disable</p>
0x41	Set FAN mode	<p>Byte1: Definition the same as <a href="#">CMD 0x97 "Send Byte0"</a></p> <p>Byte2: Definition the same as <a href="#">Index 0x40 - Get FAN mode "Received Byte0"</a></p>
0x42	Get FAN duty	<p>Send Byte1: Definition the same as <a href="#">CMD 0x97 "Send Byte0"</a></p> <p>Received Byte0: Duty cycle value 0 to 255</p>
0x43	Set FAN duty	<p>Byte1: Definition the same as <a href="#">CMD 0x97 "Send Byte0"</a></p> <p>Byte2: Duty cycle value 0 to 255</p>
0x44	Get FAN Alert RPM	<p>Send Byte1: Definition the same as <a href="#">CMD 0x97 "Send Byte0"</a></p> <p>Received            Byte0: High Byte            Byte1: Low Byte</p>
0x45	Set FAN Alert RPM	<p>Byte1: Definition the same as <a href="#">CMD 0x97 "Send Byte0"</a></p> <p>Byte2: High Byte</p> <p>Byte3: Low Byte</p> <p>Note:            1. Once EC detected FAN RPM lower or equal than the settings value, EC will turn on <a href="#">FAN Alert LED</a> (if the project supported the LED).            2. Default FAN Alert RPM was 0.</p>

0x46	Get FAN Alert Status	<p>Send Byte1:</p> <p>1. Definition the same as <a href="#">CMD 0x97 “Send Byte0”</a></p> <p>2. 0xFF - 1-step to Get have any one has Alerted</p> <p>Received Byte0:</p> <p>0 - Not Alerted</p> <p>1 - Alerted</p>										
0x47	Clear FAN Alert	<p>Byte1:</p> <p>1. Definition the same as <a href="#">CMD 0x97 “Send Byte0”</a></p> <p>2. 0xFF - 1-step to Clear all of Alerted status</p>										
0x48	Get FAN Referenced Temperature Sources	<p>Send Byte1:</p> <p>Definition the same as <a href="#">CMD 0x97 “Send Byte0”</a></p> <p>Received</p> <p>Byte0: Count (return total bytes, included Byte0)</p> <p>ByteX: Definition the same as <a href="#">Index 0x00 “Send Byte1”</a> of CMD 0xCCh/CDh Index Table</p>										
0x49	Set FAN Reference Temperature Source	<p>Byte1:</p> <p>Definition the same as <a href="#">CMD 0x97 “Send Byte0”</a></p> <p>Byte2:</p> <p>Definition the same as <a href="#">Index 0x00 “Send Byte1”</a> of CMD 0xCCh/CDh Index Table</p> <p>Byte3:</p> <p>Operate, 0-Remove/1-Add</p>										
0xD0	Get LED Blink mode	<p>Byte1:</p> <p>Definition the same as <a href="#">CMD 0xD2 “Send Byte0”</a> (only for general purpose LED, exclude Debug LED)</p> <p>Received Byte0:</p> <table><tr><th>Type</th><th>Value</th></tr><tr><td>Reserved</td><td>0x00</td></tr><tr><td>Always On</td><td>0x01</td></tr><tr><td>LED On/Off per 0.5s</td><td>0x03</td></tr><tr><td>LED On/Off per 1s</td><td>0x04</td></tr></table>	Type	Value	Reserved	0x00	Always On	0x01	LED On/Off per 0.5s	0x03	LED On/Off per 1s	0x04
Type	Value											
Reserved	0x00											
Always On	0x01											
LED On/Off per 0.5s	0x03											
LED On/Off per 1s	0x04											
0xD1	Set LED Blink mode	<p>Byte1:</p> <p>Definition the same as <a href="#">CMD 0xD2 “Send Byte0”</a> (only for general purpose LED, exclude Debug LED)</p> <p>Byte2:</p> <p>Definition the same as <a href="#">Index 0xD0 - Get LED Blink mode “Received Byte0”</a></p>										

## 2.3 CMD CCh/CDh Index Table

The index table functions intend for thermal related which access by CMD [0xCC](#), [0xCD](#).

Index	Function	Description/Usage
0x00	Read Temperature	<p>Send Byte1:  (Temperature Source)  0x00 - PECI  0x10 - Thermal Sensor: CPU  0x11 - Thermal Sensor: VCore  0x12 - Thermal Sensor: Memory  0x13 - Thermal Sensor: PCIe Graphic  0x14 - Thermal Sensor: PCH  0x15 - Thermal Sensor: Ambient   0x16 - Thermal Sensor: GPU  0x20 - Thermal Sensor: System  0xFF - Reserved for special case</p> <p>Received Byte0:  Temperature value (degree C)</p>
0x02	Get Sensor Alert Temperature	<p>Send  Byte1: Definition the same as <a href="#">Index 0x00 "Send Byte1"</a>  Byte2: Auto/Silent/Performance/Full speed. Definition the same as <a href="#">Index 0x40 - Get FAN mode "Received Byte0"</a></p> <p>Received Byte0:  Temperature value (degree C)</p>
0x03	Set Sensor Alert Temperature	<p>Byte1:  Definition the same as <a href="#">Index 0x00 "Send Byte1"</a>  Byte2:  Auto/Silent/Performance/Full speed. Definition the same as <a href="#">Index 0x40 - Get FAN mode "Received Byte0"</a>  Byte3:  Temperature value (degree C)</p> <p>Note:  Once EC detected Sensor temperature higher than the settings value, EC will turn on <a href="#">Temperature Alert LED</a> (if the project supported the LED).</p>
0x04	Get Sensor Alert Status	<p>Send Byte1:  1. Definition the same as <a href="#">Index 0x00 "Send Byte1"</a>  2. 0xFF - 1-step to Get have any one has Alerted</p> <p>Received Byte0:  0 - Not Alerted  1 - Alerted</p>
0x05	Clear Sensor Alert	<p>Byte1:  1. Definition the same as <a href="#">Index 0x00 "Send Byte1"</a>  2. 0xFF - 1-step to Clear all of Alerted status</p>





## Chapter 3 AAEON IPC EC Command Set (Extended)

The chapter commands is extended from previous chapter common part, main concept is used by BIOS team since these Command Set was more bottom layer operation.

### 3.1 I/O Command Set

CMD	Function	Description/Usage
0x87	Get/Set GPIO pin	Send Byte0: Operation Type Byte1: GPIO Port & Pin  Received Byte0: (for Read) pin status, 1-High/0-Low
0x8B	Set System State	0x03 - notified EC to enter into S3 0x04 - notified EC to enter into S4 0x05 - notified EC to enter into S5 0xF0 - EC redetect FAN present status others - Reserved