

## GENE-SKU6

3.5" Subcompact Board

User's Manual 13<sup>th</sup> Ed

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## Packing List

Before setting up your product, please make sure the following items have been shipped:

Item	Quantity
GENE-SKU6 MB	1
Heat Spreader	1

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

#### About this Document

This User's Manual contains all the essential information, such as detailed descriptions and explanations on the product's hardware and software features (if any), its specifications, dimensions, jumper/connector settings/definitions, and driver installation instructions (if any), to facilitate users in setting up their product.

Users may refer to the product page at AAEON.com for the latest version of this document.

#### Safety Precautions

Please read the following safety instructions carefully. It is advised that you keep this manual for future references

- 1. All cautions and warnings on the device should be noted.
- 2. Make sure the power source matches the power rating of the device.
- Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- Always completely disconnect the power before working on the system's hardware.
- No connections should be made when the system is powered as a sudden rush of power may damage sensitive electronic components.
- If the device is not to be used for a long time, disconnect it from the power supply to avoid damage by transient over-voltage.
- 7. Always disconnect this device from any AC supply before cleaning.
- 8. While cleaning, use a damp cloth instead of liquid or spray detergents.
- 9. Make sure the device is installed near a power outlet and is easily accessible.
- 10. Keep this device away from humidity.
- 11. Place the device on a solid surface during installation to prevent falls
- 12. Do not cover the openings on the device to ensure optimal heat dissipation.
- 13. Watch out for high temperatures when the system is running.
- 14. Do not touch the heat sink or heat spreader when the system is running
- 15. Never pour any liquid into the openings. This could cause fire or electric shock.
- As most electronic components are sensitive to static electrical charge, be sure to ground yourself to prevent static charge when installing the internal components. Use a grounding wrist strap and contain all electronic components in any static-shielded containers.

- 17. If any of the following situations arises, please the contact our service personnel:
  - i. Damaged power cord or plug
  - ii. Liquid intrusion to the device
  - iii. Exposure to moisture
  - Device is not working as expected or in a manner as described in this manual
  - v. The device is dropped or damaged
  - vi. Any obvious signs of damage displayed on the device

## DO NOT LEAVE THIS DEVICE IN AN UNCONTROLLED ENVIRONMENT WITH TEMPERATURES BEYOND THE DEVICE'S PERMITTED STORAGE TEMPERATURES (SEE CHAPTER 1) TO PREVENT DAMAGE.



This device complies with Part 15 FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.

#### Caution:

There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions and your local government's recycling or disposal directives.

#### Attention:

Il y a un risque d'explosion si la batterie est remplacée de façon incorrecte. Ne la remplacer qu'avec le même modèle ou équivalent recommandé par le constructeur. Recycler les batteries usées en accord avec les instructions du fabricant et les directives gouvernementales de recyclage.

## China RoHS Requirements (CN)

产品中有毒有害物质或元素名称及含量

AAEON Main Board/Daughter Board/Backplane

			有	毒有害物质或	或元素	
部件名称	铅	汞	镉	六价铬	多溴联苯	多溴二苯醚
	(Pb)	(Hg)	(Cd)	(Cr(VI))	(PBB)	(PBDE)
印刷电路板			0	0	0	0
及其电子组件	0	0	0	0	0	0
外部信号			0	0	0	0
连接器及线材	0	0	0	0	0	0
O: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T 11363-2006标准规定的限量要求以下。						
<: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T 11363-2006 标准规定的限量要求。						
备注:此产品所标示之环保使用期限,系指在一般正常使用状况下。						

## China RoHS Requirement (EN)

#### Poisonous or Hazardous Substances or Elements in Products

AAEON Main Board/Daughter Board/Backplane

		Pc	Poisonous or Hazardous Substances or Elements			ıts
Component	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominated Biphenyls (PBB)	Polybrominated Diphenyl Ethers (PBDE)
PCB & Other Components	0	0	0	0	0	0
Wires & Connectors for External Connections	0	0	0	0	0	0

O: The quantity of poisonous or hazardous substances or elements found in each of the component's parts is below the SJ/T 11363-2006-stipulated requirement.

X: The quantity of poisonous or hazardous substances or elements found in at least one of the component's parts is beyond the SJ/T 11363-2006-stipulated requirement.

Note: The Environment Friendly Use Period as labeled on this product is applicable under normal usage only

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## Chapter 1

Product Specifications

## 1.1 Specifications

System	
Form Factor	3.5'' Sub-Compact Board
CPU	6th Generation Intel® Core™/ Celeron®
	Processor:
	Core i7-6600U (2C/4T 2.60 GHz, up to 3.40 GHz)
	Core i5-6300U (2C/4T 2.40 GHz, up to 3.00 GHz)
	Core i3-6100U (2C/4T, 2.30 GHz)
	Celeron® 3955U (2C/2T, 2.00 GHz)
CPU TDP	Core i7-6600U: 15W, up to 25W
	Core i5-6300U: 15W, up to 25W
	Core i3-6100U: 15W
	Celeron 3955U: 15W
Chipset	Integrated with Intel® SoC
Memory Type	DDR4 up to 2133MHz, SODIMM x 1, up to 16GB,
	Non-ECC
Wake on LAN	Yes
Watchdog Timer	255 Levels
Security	TPM 2.0 (Optional)
RTC Battery	Lithium Battery3V/240 mAh
Dimensions (LxW)	5.75" x 4" (146mm x 101.7mm)

Power	
Power Requirement	+9~36V (Optional: +12V)
Power Supply Type	AT/ATX
Connector	Phoenix 2-pin Connector

Power	
Power Consumption (Typical)	3.42A at +12V with Intel® Core™ i7-6600U,
	DDR4 2666MHz 32GB
Power Consumption (Max)	4.25A at +12V with Intel® Core™ i7-6600U,
	DDR4 2666MHz 32GB
Display	
Controller	Intel® HD Graphics 520/610
LVDS/eDP	LVDS Dual Channel 18/24-bit x 1
Display Interface	DP1.2 x 1 + DVI-D x 1 (default)
	Optional: DVI-I x 1 (with VGA signal)
Multiple Display Support	Up to 3 Simultaneous Displays
Audio	
Codec	Realtek ALC897/892
Audio Interface	Line-in/Line-out/Mic
Speaker	—
External I/O	
Ethernet	Intel® i210/i211, 10/100/1000 Base-TX, RJ-45 x 2
USB	USB3.2 Gen 1 x 4
Serial Port	_
Video	DP1.2 x 1
	DVI-D x 1

Internal I/O	
USB	USB2.0 x 2
Serial Port	COM1 (RS232)
	COM2, COM3, COM4 (RS232/422/485, supports
	5V/12V/RI
Video	LVDS x 1
SATA	SATA III (6.0 Gbps) x 1
	+5V SATA Power Connector x 1
Audio	Audio Header x 1
DIO/GPIO	8-bit
SMB us/ I2C	SMBus x 1
Touch	4/5/8-wire Touch Controller x 1 (optional)
Fan	DC Fan x 1 (optional: Smart Fan)
SIM	Micro SIM x 1 (optional)
Front Panel	HDD LED, Power LED, Power Button, Buzzer,
	Reset Button
Other	_

Expansion	
Mini PCle/ mSATA	Full-Size mPCIe x 1
	Half-Size mSATA/mPClex1(Default mSATA,
	select by BIOS)
M.2	_
Other	BIO x 1
Environment	
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C)

-40°F ~ 176°F (-40°C ~ 80°C)

Storage Temperature

Environment	
Operating Humidity	0% ~ 90% relative humidity, non-condensing
MTBF (Hours)	375,577
EMC Certification	CE/FCC Class A

### 1.2 Block Diagram



# Chapter 2

Hardware Information

#### 2.1 Dimensions

#### Component Side



#### Solder Side (with heat spreader)



Solder Side

#### 2.2 Jumpers and Connectors





#### 2.3 List of Jumpers

Please refer to the table below for all of the board's jumpers that you can configure for your application

Label	Function
IP1	Clear CMOS Jumper
	IV/DS Port Backlight Inverter V/CC Selection
JP3	LVDS Port Backlight Lightness Control Mode Selection
JP4	LVDS Port Operating VDD Selection
JP5	mSATA/Mini-Card Operating VCC Selection
JP6	Touch Screen 4/5/8-wire Mode Selection
JP7	Auto Power Button Enable/Disable Selection
JP8	COM3 Pin8 Function Selection
JP9	COM2 Pin8 Function Selection
JP10	Front Panel Connector
JP11	COM4 Pin8 Function Selection

#### 2.3.1 Clear CMOS Jumper (JP1)



1	2	3	
Clear CMOS			

#### 2.3.2 LVDS Port Backlight Inverter VCC Selection (JP2)





#### 2.3.3 LVDS Port Backlight Lightness Control Mode Selection (JP3)







#### 2.3.10 Front Panel Connector (JP10)

1		2
3		4
5		6
7		8
9		10

Pin	Pin Name	Pin	Pin Name
1	PWR_BTN-	2	PWR_BTN+
3	HDD_LED-	4	HDD_LED+
5	SPEAKER-	6	SPEAKER+
7	PWR_LED-	8	PWR_LED+
9	H/W RESET-	10	H/W RESET+

## 2.3.11 COM4 Pin8 Function Selection (JP11)

1			2	
3			4	
5			6	
+12V				

1			2	
3			4	
5			6	
Ring ( <b>Default</b> )				



Please refer to the table below for all of the board's connectors that you can configure for your application

Label	Function
CN1	Battery
CN3	DVI-I (Digital and Analog)
CN5	DP Port
CN6	LVDS Port
CN7	LVDS Port Inverter / Backlight Connector
CN8	SPI Debug Port
CN9	LAN (RJ-45) Port1
CN10	LAN (RJ-45) Port2
CN11	Mini-Card Slot (Full-Mini Card)
CN12	Micro SIM Card Socket
CN13	Mini-Card Slot (Half-Mini Card)
CN14	SATA Port
CN15	+5V Output for SATA HDD
CN18	USB 3.0 Ports
CN19	USB 3.0 Ports
CN20	USB 2.0 Port
CN21	USB 2.0 Port
CN22	Audio I/O Port
CN23	Touch Screen Connector
CN24	Digital IO Port
CN25	COM Port1
CN26	COM Port 4
CN27	COM Port 2

Label	Function
CN28	COM Port 3
CN29	LPC Port
CN30	External Power Input
CN32	+5VSB Output w/SMBus
CN33	External +5VSB Input
CN35	BIO Connector
CN36	CPU FAN

## 2.4.1 Battery (CN1)

Pin	Pin Name	Signal Type	Signal Level
1	+3.3V	PWR	3.3V
2	GND	GND	

## 2.4.2 DVI-I (Digital and Analog) (CN3)

Pin	Pin Name	Signal Type	Signal Level
1	DVI_D2-	OUT	
2	DVI_D2+	OUT	
3	GND	GND	
4	VGA_DDC_CLK	I/O	
5	VGA_DDC_DAT	I/O	
6	SCL	I/O	
7	SDA	I/O	
8	VGA_VSYNC	OUT	
9	DVI_D1-	OUT	
10	DVI_D1+	OUT	

Pin	Pin Name	Signal Type	Signal Level
11	GND	GND	
12	NC		
13	NC		
14	+5V	PWR	+5V
15	GND	GND	
16	HPD	IN	
17	DVI_D0-	OUT	
18	DVI_D0+	OUT	
19	GND	GND	
20	NC		
21	NC		
22	GND	GND	
23	DVI_CLK+	OUT	
24	DVI_CLK-	OUT	
C1	VGA_RED	OUT	
C2	VGA_GREEN	OUT	
C3	VGA_BLUE	OUT	
C4	VGA_HSYNC	OUT	

## 2.4.3 DP Port (CN5)

Pin	Pin Name	Signal Type	Signal Level
1	DP_D0+	DIFF	
2	GND	GND	
3	DP_D0-	DIFF	
4	DP_D1+	DIFF	
5	GND	GND	

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Pin	Pin Name	Signal Type	Signal Level
6	DP_D1-	DIFF	
7	DP_D2+	DIFF	
8	GND	GND	
9	DP_D2-	DIFF	
10	DP_D3+	DIFF	
11	GND	GND	
12	DP_D3-	DIFF	
13	GND	GND	
14	GND	GND	
15	DP_AUX+	DIFF	
16	GND	GND	
17	DP_AUX-	DIFF	
18	HPLG_DETECT	IN	
19	GND	GND	
20	+5V	1/0	+5V

#### 2.4.4 LVDS Port (CN6)



**Note:** LVDS LCD\_PWR can be set to +3.3V or +5V by JP4. Driving Current supports up to 1.5A

Pin	Pin Name	Signal Type	Signal Level
1	BKL_ENABLE	OUT	
2	BKL_CONTROL	OUT	
3	LCD_PWR	PWR	+3.3V/+5V
4	GND	GND	
5	LVDS_A_CLK-	DIFF	
6	LVDS_A_CLK+	DIFF	
7	LCD_PWR	PWR	+3.3V/+5V
8	GND	GND	
9	LVDS_DA0-	DIFF	
10	LVDS_DA0+	DIFF	
11	LVDS_DA1-	DIFF	
12	LVDS_DA1+	DIFF	
13	LVDS_DA2-	DIFF	
14	LVDS_DA2+	DIFF	

Pin	Pin Name	Signal Type	Signal Level
15	LVDS_DA3-	DIFF	
16	LVDS_DA3+	DIFF	
17	DDC_DATA	I/O	+3.3V
18	DDC_CLK	I/O	+3.3V
19	LVDS_DB0-	DIFF	
20	LVDS_DB0+	DIFF	
21	LVDS_DB1-	DIFF	
22	LVDS_DB1+	DIFF	
23	LVDS_DB2-	DIFF	
24	LVDS_DB2+	DIFF	
25	LVDS_DB3-	DIFF	
26	LVDS_DB3+	DIFF	
27	LCD_PWR	PWR	+3.3V/+5V
28	GND	GND	
29	LVDS_B_CLK-	DIFF	
30	LVDS_B_CLK+	DIFF	

## 2.4.5 LVDS Port Inverter / Backlight Connector (CN7)



Pin	Pin Name	Signal Type	Signal Level
1	BKL_PWR	PWR	+5V / +12V
2	BKL_CONTROL	OUT	

Pin	Pin Name	Signal Type	Signal Level
3	GND	GND	
4	GND	GND	
5	BKL_ENABLE	OUT	+5V

**Note 1:** LVDS BKL\_PWR can be set to +5V or +12V by JP2. Driving current supports up to 2A.

Note 2: LVDS BKL\_CONTROL can be set by JP3

### 2.4.6 SPI Debug Port (CN8)

Pin	Pin Name	Signal Type	Signal Level
1	spi_miso	OUT	
2	GND	GND	
3	SPI_CLK	IN	
4	+3.3VSB	PWR	+3.3V
5	spi_mosi	IN	
6	SPI_CS	IN	
7	NC		

#### 2.4.7 LAN (RJ-45) Port1 (CN9)



Pin	Pin Name	Signal Type	Signal level
1	MDI0+	DIFF	
2	MDI0-	DIFF	
3	MDI1+	DIFF	
4	MDI2+	DIFF	
5	MDI2-	DIFF	
6	MDI1-	DIFF	
7	MDI3+	DIFF	
8	MDI3-	DIFF	

#### 2.4.8 LAN (RJ-45) Port2 (CN10)



Pin	Pin Name	Signal Type	Signal level
1	MDI0+	DIFF	
2	MDI0-	DIFF	
3	MDI1+	DIFF	

Pin	Pin Name	Signal Type	Signal level
4	MDI2+	DIFF	
5	MDI2-	DIFF	
6	MDI1-	DIFF	
7	MDI3+	DIFF	
8	MDI3-	DIFF	

## 2.4.9 Mini-Card Slot (Full-Mini Card) (CN11)

Pin	Pin Name	Signal Type	Signal Level
1	PCIE_WAKE#	IN	
2	+3.3VSB	PWR	+3.3V
3	NC		
4	GND	GND	
5	NC		
6	+1.5V	PWR	+1.5V
7	PCIE_CLK_REQ#	IN	
8	UIM_PWR	PWR	
9	GND	GND	
10	UIM_DATA	I/O	
11	PCIE_REF_CLK-	DIFF	
12	UIM_CLK	IN	
13	PCIE_REF_CLK+	DIFF	
14	UIM_RST	IN	
15	GND	GND	
16	UIM_VPP	PWR	
17	NC		
Pin	Pin Name	Signal Type	Signal Level
-----	------------	-------------	--------------
18	GND	GND	
19	NC		
20	W_DISABLE#	OUT	+3.3V
21	GND	GND	
22	PCIE_RST#	OUT	+3.3V
23	PCIE_RX-	DIFF	
24	+3.3VSB	PWR	+3.3V
25	PCIE_RX+	DIFF	
26	GND	GND	
27	GND	GND	
28	+1.5V	PWR	+1.5V
29	GND	GND	
30	SMB_CLK	I/O	+3.3V
31	PCIE_TX-	DIFF	
32	SMB_DATA	I/O	+3.3V
33	PCIE_TX+	DIFF	
34	GND	GND	
35	GND	GND	
36	USB_D-	DIFF	
37	GND	GND	
38	USB_D+	DIFF	
39	+3.3VSB	PWR	+3.3V
40	GND	GND	
41	+3.3VSB	PWR	+3.3V
42	NC		
43	GND	GND	

Pin	Pin Name	Signal Type	Signal Level
44	NC		
45	NC		
46	NC		
47	NC		
48	+1.5V	PWR	+1.5V
49	NC		
50	GND	GND	
51	NC		
52	+3.3VSB	PWR	+3.3V

# 2.4.10 Micro SIM Card Socket (CN12)

Pin	Pin Name	Signal Type	Signal Level
1	UIM_PWR	PWR	
2	UIM_RST	IN	
3	UIM_CLK	IN	
4	NC		
5	GND	GND	
6	UIM_VPP	PWR	
7	UIM_DATA	I/O	
8	NC		

# 2.4.11 Mini-Card Slot (Half-Mini Card) (CN13)

Pin	Pin Name	Signal Type	Signal Level
1	PCIE_WAKE#	IN	
2	+3.3VSB	PWR	+3.3V
3	NC		
4	GND	GND	
5	NC		
6	+1.5V	PWR	+1.5V
7	PCIE_CLK_REQ#	IN	
8	NC		
9	GND	GND	
10	NC		
11	PCIE_REF_CLK-	DIFF	
12	NC		
13	PCIE_REF_CLK+	DIFF	
14	NC		
15	GND	GND	
16	NC		
17	NC		
18	GND	GND	
19	NC		
20	W_DISABLE#	OUT	+3.3V
21	GND	GND	
22	PCIE_RST#	OUT	+3.3V
23	PCIE_RX-/mSATA_RX+	DIFF	
24	+3.3VSB	PWR	+3.3V

Pin	Pin Name	Signal Type	Signal Level
25	PCIE_RX+/mSATA_RX-	DIFF	
26	GND	GND	
27	GND	GND	
28	+1.5V	PWR	+1.5V
29	GND	GND	
30	SMB_CLK	I/O	+3.3V
31	PCIE_TX-/mSATA_TX-	DIFF	
32	SMB_DATA	I/O	+3.3V
33	PCIE_TX+/mSATA_TX+	DIFF	
34	GND	GND	
35	GND	GND	
36	USB_D-	DIFF	
37	GND	GND	
38	USB_D+	DIFF	
39	+3.3VSB	PWR	+3.3V
40	GND	GND	
41	+3.3VSB	PWR	+3.3V
42	NC		
43	GND	GND	
44	NC		
45	NC		
46	NC		
47	NC		
48	+1.5V	PWR	+1.5V
49	NC		
50	GND	GND	

Chapter 2 – Hardware Information

Pin	Pin Name	Signal Type	Signal Level
51	NC		
52	+3.3VSB	PWR	+3.3V

Note: CN13 can be selected for Mini-Card or mSATA by changing BIOS

# 2.4.12 SATA Port 1 (CN14)



Pin	Pin Name	Signal Type	Signal Level
1	GND	GND	
2	SATA_TX+	DIFF	
3	SATA_TX-	DIFF	
4	GND	GND	
5	SATA_RX-	DIFF	
6	SATA_RX+	DIFF	
7	GND	GND	

# 2.4.13 +5V Output for SATA HDD (CN15)



Pin	Pin Name	Signal Type	Signal Level
1	+5V	PWR	+5V
2	GND	GND	

Note: +5V Output for SATA HDD, driving current supports up to 1A

### 2.4.14 USB 3.0 Ports (CN18)



Pin	Pin Name	Signal Type	Signal Level
1	+5VSB	PWR	+5V
2	USB_D-	DIFF	
3	USB_D+	DIFF	
4	GND	GND	
5	USB_SSRX-	DIFF	
6	USB_SSRX+	DIFF	
7	GND	GND	

Pin	Pin Name	Signal Type	Signal Level
8	USB_SSTX-	DIFF	
9	USB_SSTX+	DIFF	
10	+5VSB	PWR	+5V
11	USB_D-	DIFF	
12	USB_D+	DIFF	
13	GND	GND	
14	USB_SSRX-	DIFF	
15	USB_SSRX+	DIFF	
16	GND	GND	
17	USB_SSTX-	DIFF	
18	USB_SSTX+	DIFF	

Note: USB3.0 Ports support current up to 0.9A

### 2.4.15 USB 3.0 Ports (CN19)



Pin	Pin Name	Signal Type	Signal Level
1	+5VSB	PWR	+5V
2	USB_D-	DIFF	
3	USB_D+	DIFF	
4	GND	GND	

Pin	Pin Name	Signal Type	Sig nal Level
5	USB_SSRX-	DIFF	
6	USB_SSRX+	DIFF	
7	GND	GND	
8	USB_SSTX-	DIFF	
9	USB_SSTX+	DIFF	
10	+5VSB	PWR	+5V
11	USB_D-	DIFF	
12	USB_D+	DIFF	
13	GND	GND	
14	USB_SSRX-	DIFF	
15	USB_SSRX+	DIFF	
16	GND	GND	
17	USB_SSTX-	DIFF	
18	USB_SSTX+	DIFF	

Note: USB3.0 Ports support current up to 0.9A



Pin	Pin Name	Signal Type	Sig nal Level
1	+5VSB	PWR	+5V
2	USB_D-	DIFF	
3	USB_D+	DIFF	
4	GND	GND	
5	GND	GND	

Note: USB2.0 Ports support current up to 0.5A

# 2.4.17 USB 2.0 Port (CN21)



Pin	Pin Name	Signal Type	Signal Level
1	+5VSB	PWR	+5V
2	USB_D-	DIFF	
3	USB_D+	DIFF	
4	GND	GND	
5	GND	GND	

Note: USB2.0 Ports support current up to 0.5A

# 2.4.18 Audio I/O Port (CN22)



Pin	Pin Name	Signal Type	Signal Level
1	MIC_L	IN	
2	MIC_R	IN	
3	GND_AUDIO	GND	
4	LINE_L_IN	IN	
5	LINE_R_IN	IN	
6	GND_AUDIO	GND	
7	LEFT_OUT	OUT	
8	GND_AUDIO	GND	
9	RIGHT_OUT	OUT	
10	+5V_AUDIO	PWR	+5V

# 2.4.19 Touchscreen Connector (CN23)

### Note: Touch mode can be set by JP6

#### 4-wire Mode:



Pin	Pin Name	Signal Type	Signal Level
1	GND	GND	
2	TOP	IN	
3	BOTTOM	IN	
4	LEFT	IN	
5	RIGHT	IN	
6	NC		
7	NC		
8	NC		
9	NC		

### 5-wire Mode



Pin	Pin Name	Signal Type	Signal Level
1	GND	GND	
2	UL(Y)	IN	
3	UR(H)	IN	
4	LL(L)	IN	
5	LR(X)	IN	
6	SENSE(S)	IN	
7	NC		
8	NC		
9	NC		

### 8-wire Mode



Pin	Pin Name	Signal Type	Signal Level
1	GND	GND	
2	TOP EXCITE	IN	
3	BOTTOM EXCITE	IN	
4	LEFT EXCITE	IN	
5	RIGHT EXCITE	IN	
6	top sense	IN	
7	BOTTOM SENSE	IN	
8	LEFT SENSE	IN	
9	RIGHT SENSE	IN	

# 2.4.20 Digital I/O Port (CN24)

		6			
DIO0	_	1	<u></u> ∎2	L	DIO1
DIO2	_				DIO3
DIO4	_		8	-	DIO5
DIO6	_		8	-	DIO7
+5V	_	o 🖬	B 10	-	GND
		۲ <u> </u>	- 4		

Pin	Pin Name	Signal Type	Signal Level
1	DIO0	I/O	+5V
2	DIO1	I/O	+5V
3	DIO2	I/O	+5V
4	DIO3	I/O	+5V
5	DIO4	I/O	+5V
6	DIO5	I/O	+5V
7	DIO6	I/O	+5V
8	DIO7	I/O	+5V
9	+5V	PWR	+5V
10	GND	GND	

Note: Digital I/O port supports current up to 0.5A

# 2.4.21 COM Port 1 (CN25)



Pin	Pin Name	Signal Type	Signal Level
1	DCD	IN	
2	DSR	IN	
3	RX	IN	
4	RTS	OUT	±9V
5	ТХ	OUT	±9V
6	CTS	IN	
7	DTR	OUT	±9V
8	RI	IN	
9	GND	GND	

# 2.4.22 COM Port 4 (CN26)

### RS-232 Mode



Pin	Pin Name	Signal Type	Signal Level
1	DCD	IN	
2	DSR	IN	
3	RX	IN	
4	RTS	OUT	±5V
5	ТХ	OUT	±5V
6	CTS	IN	
7	DTR	OUT	±5V
8	RI/+5V/+12V	IN/PWR	+5V/+12V
9	GND	GND	

### RS-422 Mode



Pin	Pin Name	Signal Type	Signal Level
1	RS422_TX-	OUT	±5V
2	NC		
3	RS422_TX+	OUT	±5V
4	NC		
5	RS422_RX+	IN	
6	NC		
7	RS422_RX-	IN	
8	NC/+5V/+12V	PWR	+5V/+12V
9	GND	GND	

#### RS-485 Mode



Pin	Pin Name	Signal Type	Signal Level
1	RS485_D-	I/O	±5V
2	NC		
3	RS485_D+	I/O	±5V
4	NC		
5	NC		
6	NC		
7	NC		
8	NC/+5V/+12V	PWR	+5V/+12V
9	GND	GND	

Note 1: COM4 RS-232/422/485 can be set by BIOS. Default is RS-232.

**Note 2:** Pin 8 function can be set by JP11. Maximum driving current in power supply mode is 0.5A

# 2.4.23 COM Port 2 (CN27)

### RS-232 Mode



Pin	Pin Name	Signal Type	Signal Level
1	DCD	IN	
2	DSR	IN	
3	RX	IN	
4	RTS	OUT	±5V
5	ТХ	OUT	±5V
6	CTS	IN	
7	DTR	OUT	±5V
8	RI/+5V/+12V	IN/PWR	+5V/+12V
9	GND	GND	

### RS-422 Mode



Pin	Pin Name	Signal Type	Signal Level
1	RS422_TX-	OUT	±5V
2	NC		
3	RS422_TX+	OUT	±5V
4	NC		
5	RS422_RX+	IN	
6	NC		
7	RS422_RX-	IN	
8	NC/+5V/+12V	PWR	+5V/+12V
9	GND	GND	

#### RS-485 Mode



Pin	Pin Name	Signal Type	Signal Level
1	RS485_D-	I/O	±5V
2	NC		
3	RS485_D+	I/O	±5V
4	NC		
5	NC		
6	NC		
7	NC		
8	NC/+5V/+12V	PWR	+5V/+12V
9	GND	GND	

Note 1: COM2 RS-232/422/485 can be set by BIOS setting. Default is RS-232.

**Note 2:** Pin 8 function can be set by JP9. Maximum driving current in power supply mode is 0.5A

# 2.4.24 COM Port 3 (CN28)

### RS-232 Mode



Pin	Pin Name	Signal Type	Signal Level
1	DCD	IN	
2	DSR	IN	
3	RX	IN	
4	RTS	OUT	±5V
5	ТХ	OUT	±5V
6	CTS	IN	
7	DTR	OUT	±5V
8	RI/+5V/+12V	IN/PWR	+5V/+12V
9	GND	GND	

### RS-422 Mode



Pin	Pin Name	Signal Type	Signal Level
1	RS422_TX-	OUT	±5V
2	NC		
3	RS422_TX+	OUT	±5V
4	NC		
5	RS422_RX+	IN	
6	NC		
7	RS422_RX-	IN	
8	NC/+5V/+12V	PWR	+5V/+12V
9	GND	GND	

#### RS-485 Mode



Pin	Pin Name	Signal Type	Signal Level
1	RS485_D-	I/O	±5V
2	NC		
3	RS485_D+	I/O	±5V
4	NC		
5	NC		
6	NC		
7	NC		
8	NC/+5V/+12V	PWR	+5V/+12V
9	GND	GND	

Note 1: COM3 RS-232/422/485 can be set by BIOS setting. Default is RS-232.

**Note 2:** Pin 8 function can be set by JP8. Maximum driving current in power supply mode is 0.5A

# 2.4.25 LPC Port (CN29)

Pin	Pin Name	Signal Type	Signal Level
1	LAD0	I/O	+3.3V
2	LAD1	1/0	+3.3V
3	LAD2	1/0	+3.3V
4	LAD3	I/O	+3.3V
5	+3.3V	PWR	+3.3V
6	LFRAME#	IN	
7	LRESET#	OUT	+3.3V
8	GND	GND	
9	LCLK	OUT	
10	I2C_SDA	I/O	
11	I2C_SCL	1/0	
12	SERIRQ	I/O	+3.3V

### 2.4.26 External Power Input (CN30)



Pin	Pin Name	Signal Type	Signal Level
1	+12V	PWR	+9~+36V (or +12V)
2	GND	GND	

Note: Pin 1/ Vin maximum current rating is 7A.

# 2.4.27 +5VSB Output w/SMBus (CN32)



Pin	Pin Name	Signal Type	Signal Level
1	SMB_DATA	I/O	+3.3V
2	GND	GND	
3	SMB_CLK	I/O	+3.3V
4	GND	GND	
5	PS_ON#	OUT	+3.3V
6	+5VSB	PWR	+5V

# 2.4.28 External +5VSB Input (CN33)



Pin	Pin Name	Signal Type	Signal Level
1	PS_ON#	OUT	+3.3V
2	GND	GND	
3	+5VSB	PWR	+5V

Note: Maximum current rating of Pin#3/+5VSB is 2A

### 2.4.29 BIO Connector (CN35)

Pin	Pin Name	Signal Type	Signal Level
1	+12V_Dual	PWR	+12V
2	GND	GND	
3	GND	GND	
4	PCIE1_TX-	I/O	
5	PCIE1_RX-	I/O	
6	PCIE1_TX+	I/O	
7	PCIE1_RX+	I/O	
8	GND	GND	
9	GND	GND	
10	PCIE2_TX-	I/O	

Pin	Pin Name	Signal Type	Signal Level
11	PCIE2_RX-	I/O	
12	PCIE2_TX+	I/O	
13	PCIE2_RX+	I/O	
14	GND	GND	
15	GND	GND	
16	PS_ON#	OUT	
17	NC		
18	NC		
19	+5V_Dual	PWR	+5V
20	+5V_Dual	PWR	+5V
21	+5V_Dual	PWR	+5V
22	+5V_Dual	PWR	+5V
23	PCIE_CLK+	OUT	
24	PLT_RST#	OUT	
25	PCIE_CLK-	OUT	
26	GND	GND	
27	GND	GND	
28	NC		
29	NC		
30	NC		
31	NC		
32	GND	GND	
33	GND	GND	
34	NC		
35	NC		
36	NC		

Chapter 2 – Hardware Information

Pin	Pin Name	Signal Type	Signal Level
37	NC		
38	GND	GND	
39	GND	GND	
40	NC		
41	NC		
42	GND	GND	
43	NC		
44	USB 3.0_TX-	I/O	
45	GND	GND	
46	USB 3.0_TX+	I/O	
47	USB 2.0_D-	I/O	
48	GND	GND	
49	USB 2.0_D+	I/O	
50	USB 3.0_RX-	I/O	
51	GND	GND	
52	USB 3.0_RX+	I/O	
53	SMB_CLK	I/O	
54	GND	GND	
55	SMB_DATA	I/O	
56	PCIE_WAKE#	IN	
57	GND	GND	
58	USB 2.0_OC#	IN	
59	+5V	PWR	+5V
60	USB 2.0_OC#	IN	
61	+5V	PWR	+5V
62	+5V	PWR	+5V

Chapter 2 – Hardware Information

Pin	Pin Name	Signal Type	Signal Level
63	+5V	PWR	+5V
64	+5V	PWR	+5V
65	LPC_AD0	I/O	
66	LPC_FRAME#	I/O	
67	LPC_AD1	I/O	
68	SERIRQ#	I/O	
69	LPC_AD2	I/O	
70	NC		
71	LPC_AD3	I/O	
72	GPIO	I/O	
73	GND	GND	
74	Audio_GND	GND	
75	LPC_CLK	OUT	
76	Audio_OUT_L	OUT	
77	PME#	IN	
78	Audio_OUT_R	OUT	
79	GND	GND	
80	GND	GND	



Pin	Pin Name	Signal Type	Signal Level
1	GND	GND	
2	FAN_POWER	PWR	+12V
3	FAN_TAC	IN	
4	FAN_CTL	OUT	+3.3V

Note: +12V Output for FAN power. Driving current supports up to 2A

### 2.5 Thermal Solution

### 2.5.1 GENE-SKU6-HSK01

Heatsink used with heat spreader.



Recommend to be used with the system cooler with air flow greater than 7 ft<sup>3</sup>/min.

### 2.5.2 GENE-SKU6-HSK02

Single-piece heatsink – does not require a heat spreader.



Extended temperature SKUs are tested using the GENE-SKU6-HSK02 thermal solution and under UEFI mode.

### GENE-SKU6-HSK02 Assembly



### 2.5.3 GENE-SKU6-FAN01

Cooler used with heat spreader.

5" Subcompact Boar



### GENE-SKU6-FAN01 Assembly


#### 2.5.4 GENE-SKU6-HSK03

Heatsink for DRAM.



# Chapter 3

AMI BIOS Setup

#### 3.1 System Test and Initialization

The board uses certain routines to perform testing and initialization during the boot up sequence. If an error, fatal or non-fatal, is encountered, the system will output a few short beeps or an error message. The board can usually continue the boot up sequence with non-fatal errors.

The system configuration verification routines check the current system configuration against the values stored in the CMOS memory. If they do not match, an error message will be output, and the BIOS setup program will need to be run to set the configuration information in memory.

There are three situations in which the CMOS settings will need to be set or changed:

- Starting the system for the first time
- The system hardware has been changed
- The CMOS memory has lost power and the configuration information is erased

The system's CMOS memory uses a backup battery for data retention. The battery must be replaced when it runs down.

#### 3.2 AMI BIOS Setup

The AMI BIOS ROM has a pre-installed Setup program that allows users to modify basic system configurations, which is stored in the battery-backed CMOS RAM and BIOS NVRAM so that the information is retained when the power is turned off.

To enter BIOS Setup, press <Del> or <F2> immediately while your computer is powering up.

The function for each interface can be found below.

Main – Date and time can be set here. Press <Tab> to switch between date elements

Advanced – Access advanced hardware settings and options

Chipset - Chipset settings and options

Security - Set admin and user passwords, access secure boot option

Boot – Boot options including BBS priority and Quiet Boot options

Save & Exit – Save your changes and exit the program

# 3.3 Setup Submenu: Main

Aptio Setup Utility – Copyright (C) 2016 American Megatrends, Inc. Main Advanced Chipset Security Boot Save & Exit		
BIOS Information GENE-SKU6 Rx.y (GSKUAMxy) (MM/DD	// ҮҮҮҮ)	Set the Date. Use Tab to switch between Date elements.
BIOS Vendor Compliancy	American Megatrends UEFI 2.4; PI 1.3	
System Date System Time	[Day MM/DD/YYYY] [hh:mm:ss]	
Access Level	Administrator	
		++: Select Screen
		↑↓: Select Item Enter: Select
		F1: General Help F2: Previous Values
		F3: Optimized Defaults F4: Save & Exit
		ESC: Exit
Vencion 0 47 4055 . 0e	numitht (C) 2016 American M	evetuende. Tre

# 3.4 Setup Submenu: Advanced

Aptio Setup Utility – Copyright (C) 2 Main Advanced Chipset Security Boot Save⊗Ex	021 American Megatrends, Inc. it
- CPU Configuration Trusted Computing - SATA Configuration Hardware Monitor - SIO Configuration - USB Configuration - Digital ID Port Configuration - Power Management - CSM Configuration	CPU Configuration Parameters
	++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

Chapter 3 – AMI BIOS Setup

# 3.4.1 CPU Configuration

Aptio Setup Utility Advanced	– Copyright (C) 2021 Americar	n Megatrends, Inc.
CPU Configuration		Number of cores to enable in
Type ID Speed L1 Data Cache L1 Instruction Cache L2 Cache L3 Cache L4 Cache L4 Cache	Intel(R) Celeron(R) CPU 3965U @ 2.206Hz 0x806E9 2200 MHz 32 KB × 2 32 KB × 2 256 KB × 2 256 KB × 2 2 MB N/A Supported	
SMX/TXT	Not Supported	the Coloot Concer
Active Processor Cores Intel (VMX) Virtualization Technology C states	[All] [Enabled] [Enabled]	11: Select Item Enter: Select +/-: Change Opt. F1: General Help
Intel(K) Speedstep(tm)	[FU90T60]	P2: Previous values F3: Optimized Defaults F4: Save & Exit ESC: Exit

Version 2.18.1263. Copyright (C) 2021 American Megatrends, Inc.

Options Summary			
Active Processor Cores	All	Optimal Default, Failsafe Default	
	1		
Number of cores to enable	e in each processor	package.	
Intel (VMX) Virtualization	Disabled		
Technology	Enabled	Optimal Default, Failsafe Default	
When enabled, a VMM car	n utilize the addition	nal hardware capabilities provided	
by Vanderpool Technology	/.		
CPU C states	Disabled		
	Enabled	Optimal Default, Failsafe Default	
Enable/Disable CPU Powe	Enable/Disable CPU Power Management. Allows CPU to go to C states when it's		
not 100% utilized.			
Intel(R) SpeedStep(tm)	Disabled		
	Enabled	Optimal Default, Failsafe Default	
Allows more than two frequency ranges to be supported.			

#### Trusted Computing 3.4.2

TPM20 Device FoundEnablesEnables or Disables BIOS support for security device. 0.S. will not show Security Device. TCG EFI protocol and INTIA interface will not be available PCR banksSHA-1,SHA256 SHA-1,SHA256SHA-1 PCR Bank[Enabled] SHA256 PCR Bank[Enabled] Enabled]Pending operation[None] [Enabled] Storage Hierarchy[Enabled] [Enabled]Physical Presence Spec Version[I.3] [I.3]++: Select Screen It: Select Item Physical Presence Spec VersionTPM2.0 UEFI Spec Version[I.3] (Auto]Fit: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit	Aptio Setup Utility - Advanced	Copyright (C) 2021 American	Megatrends, Inc.
	TPM20 Device Found Security Device Support Active PCR banks Available PCR banks SHA-1 PCR Bank SHA256 PCR Bank Pending operation Platform Hierarchy Storage Hierarchy Endorsement Hierarchy TPM2.0 UEFI Spec Version Physical Presence Spec Version TPM 20 InterfaceType Device Select	[Enable] SHA-1, SHA256 SHA-1, SHA256 [Enabled] [Enabled] [Enabled] [Enabled] [Enabled] [TCG_2] [1.3] [TIS] [Auto]	Enables or Disables BIOS support for security device. O.S. will not show Security Device. TGG EFI protocol and INTIA interface will not be available. ++: Select screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

Options Summary			
Security Device Support	Disable		
	Enable	Optimal Default, Failsafe Default	
Enables or Disables BIOS s	upport for security	device.	
O.S. will not show Security	Device. TCG EFI pro	otocol and INT1A interface will not	
be available.			
SHA-1 PCR Bank	Disable		
	Enable	Optimal Default, Failsafe Default	
Enable or Disable SHA-1P	CR Bank		
SHA256 PCR Bank	Disable		
	Enable	Optimal Default, Failsafe Default	
Enable or Disable SHA256 PCR Bank			
Pending operation	None	Optimal Default, Failsafe Default	
	TPM Clear		
Schedule an Operation for the Security Device. NOTE: Your Computer will reboot			
during restart in order to change state of Security Device.			

Options Summary		
Platform Hierarchy	Disable	
	Enable	Optimal Default, Failsafe Default
Enable or Disable Platforn	n Hierarchy	
Storage Hierarchy	Disable	
	Enable	Optimal Default, Failsafe Default
Enable or Disable Storage	Hierarchy	
Endorsement Hierarchy	Disable	
	Enable	Optimal Default, Failsafe Default
Enable or Disable Endorse	ement Hierarchy	
TPM2.0 UEFI Spec Version	TCG_1_2	
	TCG_2	Optimal Default, Failsafe Default
Select the TCG2 Spec Vers	sion Support, TCG_1	_2: the Compatible mode for
Win8/Win10, TCG_2: Supp	ort new TCG2 prote	ocol and event format for Win10 or
later		
Physical Presence Spec	1.2	
Version	1.3	Optimal Default, Failsafe Default
Select to Tell O.S. to supp	ort PPI Spec Versior	n 1.2 or 1.3. Note some HCK tests
might not support 1.3.		
Device Select	TPM 1.2	
	TPM 2.0	
	Auto	Optimal Default, Failsafe Default
TPM 1.2 will restrict suppo	rt to TPM 1.2 device	s, TPM 2.0 will restrict support to
TPM 2.0 devices, Auto will	support both with	the default set to TPM 2.0 devices if
not found, TPM 1.2 device	s will be enumerate	d.

# 3.4.3 SATA Configuration

Aptio Setup Utility - Advanced	· Copyright (C) 2021 America	n Megatrends, Inc.
SATA Controller(s) SATA Controller Speed	[Enabled] [Default]	Enable/Disable SATA Device.
Serial ATA Port Port mSATA Port Port Hot Plug	Empty [Enabled] Empty [Enabled] [Disabled]	++: Select Screen 11: Select Item Enter: Select
		<pre>+/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>

Options Summary		
SATA Controller(s)	Enabled	Optimal Default, Failsafe Default
	Disabled	
Enable/Disable SATA Devic	e.	
SATA Controller Speed	Default	Optimal Default, Failsafe Default
	Gen1	
	Gen2	
	Gen3	
Indicates the maximum sp	eed the SATA contro	oller can support.
Port	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable SATA Po	rt.	
Port	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable SATA Po	rt.	

Table Continues on Next Page...

Options Summary		
Hot Plug	Disabled	Optimal Default, Failsafe Default
	Enabled	
Designates this port as Hot Pluggable.		

## 3.4.4 Hardware Monitor

Antio Sotup Utility	Conunight (C) 2017 Amonicon	Nogataanda Taa
Advanced	copyright (c) 2017 American	Megatrenus, Inc.
navaneca		
		Output PWM mode (push pull) to
CPU Temperature	: +37 °c	control 4–wire fans.
System Temperature	: +34 °c	Linear fan application circuit
CPU Fan Speed	: 5928 RPM	to control 3-wire fan speed by
VCORE	: +0.808 V	fan's power terminal.
VMEM	: +1.224 V	Output PWM mode (open drain)
+12V	: +12.320 V	to control Intel 4–wire fans.
+5V	: +5.213 V	
+5VSB	: +5.040 V	
+3.3V	: +3.360 V	
VBAT	: +3.232 V	
Smart Fan	[Enabled]	
FAN1 Output Mode		↔: Select Screen
		†∔: Select Item
Smart Fan Configuration		Enter: Select
		+/-: Change Opt.
		F1: General Help
		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit
		ESC: Exit

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Options Summary		
Smart Fan	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable Sm	hart Fan	
FAN1 Output Mode	Output PWM mode	
	(open drain)	
	Linear Fan Application	Optimal Default, Failsafe Default
	Output PWM mode	
(push pull)		
Output PWM mode (push pull) to control 4-wire fans.		
Linear fan application circuit to control 3-wire fan speed by fan's power terminal.		
Output PWM mode (open drain) to control Intel 4-wire fans.		

Note: Optional support for PWM mode is available on request.

#### 3.4.4.1 Smart Fan Mode Configuration

#### Auto RPM Mode

Aptio Setup Utility - ( Advanced	Copyright (C) 2021 American	Megatrends, Inc.
Smart Fan Mode Configuration		Smart Fan Mode Select
Fan Mode Temperature 1 Temperature 2 Temperature 3 Temperature 4 RPM Percentage 1 RPM Percentage 2 RPM Percentage 3 RPM Percentage 4 RPM Percentage 5	[Auto RPM Mode] 60 50 40 30 85 70 60 50 40	<pre>++: Select Screen f4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Vancian 2 10 1969 Par	pupidht (C) 2021 Amonicon M	adataanda Taa

Options Summary		
Fan Mode	Manual RPM Mode	
	Auto RPM Mode	Optimal Default, Failsafe Default
Smart Fan Mode Select		
Temperature 1	60	
Temperature 2	50	
Temperature 3	40	
Temperature 4	30	The settings shown in this section
RPM Percentage 1	85	are the Optimal Default, Failsafe
RPM Percentage 2	70	Default settings
RPM Percentage 3	60	
RPM Percentage 4	50	
RPM Percentage 5	40	
Auto fan speed control. Fan speed will follow different temperature by different RPM 1-100		

#### Manual RPM Mode

Aptio Setup Utility - Advanced	· Copyright (C) 2021 American	Megatrends, Inc.
Smart Fan Mode Configuration		Smart Fan Mode Select
Fan Mode Manual RPM Mode	[Manual RPM Mode] 3000	
		<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>

Options Summary		
Manual RPM Mode	3000	Optimal Default; Failsafe Default
Manual mode fan control, user can write expected RPM count 500 - 1000		

# 3.4.5 SIO Configuration

Aptio Setup Utility – Copyright (C) 2017 American Advanced	Megatrends, Inc.
AMI SID Driver Version : A5.07.03 Super ID Chip Logical Device(s) Configuration > [*Active*] Serial Port 1 [*Active*] Serial Port 2 > [*Active*] Serial Port 3 > [*Active*] Serial Port 4 WARNING: Logical Devices state on the left side of the control, reflects the current Logical Device state. Changes made during Setup Session will be shown after you restart the system.	View and Set Basic properties of the SIO Logical device. Like IO Base, IRQ Range, DMA Channel and Device Mode.
	<pre>++: Select Screen tl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
Version 2.18.1263. Copyright (C) 2017 American M	egatrends, Inc.

Chapter 3 – AMI BIOS Setup

# 3.4.5.1 Serial Port1 Configuration

Aptio Setup Utility – Advanced	Copyright (C) 2017 American	Megatrends, Inc.
Serial Port 1 Configuration		Enable or Disable this Logical
Use This Device		
Logical Device Settings: Current : IO=3F8h; IRQ=4;		
Possible:	[Use Automatic Settings]	
WARNING: Disabling SIO Logical Devic side effects. PROCEED WITH CAUTION.	es may have unwanted	++: Select Screen T4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

Options Summary			
Use This Device	Disabled		
	Enabled	Optimal Default, Failsafe Default	
Enable or Disable thi	Enable or Disable this Logical Device.		
Possible:	Use Automatic Settings	Optimal Default, Failsafe Default	
	IO=3F8h; IRQ=4;		
IO=2F8h; IRQ=3;			
Allows the user to change the device resource settings. New settings will be			
reflected on this setup page after system restarts.			

# 3.4.5.2 Serial Port2 Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2017 American	Megatrends, Inc.
Serial Port 2 Configuration		Enable or Disable this Logical
Use This Device		Device.
Logical Device Settings: Current : IO=2F8h; IRQ=3;		
Possible:	[Use Automatic Settings]	
Mode :	[RS232]	
WARNING: Disabling SIO Logical Devic side effects. PROCEED WITH CAUTION.	es may have unwanted	<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt, F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>

Options Summary		
Use This Device	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable thi	s Logical Device.	
Possible:	Use Automatic Settings	Optimal Default, Failsafe Default
	10=2F8h; 1RQ=3;	
	10=3F8h; IRQ=4;	
Allows the user to change the device resource settings. New settings will be		
reflected on this setu	p page after system resta	arts.
Mode:	RS232	Optimal Default, Failsafe Default
	RS422	
	RS485	
UART RS232, 422, 48	5 selection	

#### Serial Port 3 Configuration 3.4.5.3

Aptio Setup Utility - Advanced	Copyright (C) 2017 Americar	n Megatrends, Inc.
Serial Port 3 Configuration		Enable or Disable this Logical
Use This Device		bevice.
Logical Device Settings: Current : IO=3E8h; IRQ=11;		
Possible:	[Use Automatic Settings]	
Mode :	[RS232]	
WARNING: Disabling SIO Logical Devic side effects. PROCEED WITH CAUTION.	ces may have unwanted	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>

Options Summary		
Use This Device	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable thi	s Logical Device.	
Possible:	Use Automatic Settings	Optimal Default, Failsafe Default
	10=3E8h; IRQ=11;	
	10=2E8h; IRQ=11;	
Allows the user to ch	ange the device resource	e settings. New settings will be
reflected on this setu	p page after system resta	arts.
Mode:	RS232	Optimal Default, Failsafe Default
	RS422	
	RS485	
UART RS232, 422, 48	5 selection	

#### 3.4.5.4 Serial Port4 Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2017 Americar	n Megatrends, Inc.
Serial Port 4 Configuration		Enable or Disable this Logical
Use This Device		DEVICE.
Logical Device Settings: Current : IO=2E8h; IRQ=11;		
Possible:	[Use Automatic Settings]	
Mode :	[RS232]	
WARNING: Disabling SID Logical Devic side effects. PROCEED WITH CAUTION.	ces may have unwanted	<pre>++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>

Options Summary		
Use This Device	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable or Disable thi	s Logical Device.	
Possible:	Use Automatic Settings	Optimal Default, Failsafe Default
	10=2E8h; IRQ=11;	
	10=3E8h; IRQ=11;	
Allows the user to ch	ange the device resource	e settings. New settings will be
reflected on this setu	p page after system resta	arts.
Mode:	RS232	Optimal Default, Failsafe Default
	RS422	
	RS485	
UART RS232, 422, 48	5 selection	

Aptio Setup Utility - Advanced	Copyright (C) 2013 American	Megatrends, Inc.
USB Configuration		Enables Legacy USB support.
USB Devices: 1 Drive, 1 Keyboard, 1 Mouse,	2 Hubs	support if no USB devices are connected. DISABLE option will keep USB devices available
Legacy USB Support		only for EFI applications.
		↔: Select Screen ↑↓: Select Item
		Enter: Select +/−: Change Opt. F1: General Help
		F2: Previous Values F3: Optimized Defaults
		ESC: Exit
Vancian 2 46 4242 - 02	numiekt (0) 2010 American M	atatuanda Tua

Options Summary		
Legacy USB Support	Enabled	Optimal Default, Failsafe Default
	Disabled	
	Auto	
Enables Legacy USB su	upport. Auto option disa	ables legacy support if no USB
devices are connected	. DISABLE option will ke	ep USB devices available only for
EFI applications.		

### 3.4.7 Digital IO Port Configuration



Options Summary		
DIO Port#	Output	
	Input	
Set DIO as Input or O	utput	
Output Level	High	Optimal Default, Failsafe Default
	Low	
Set output level when	DIO pin is output	

## 3.4.8 Power Management

Aptio Setup Utilit Advanced	y – Copyright (C) 2017 Am	merican Megatrends, Inc.
Power Management		Select system power mode.
Power Mode Power Saving(ERP) Control Restore AC Power Loss	[ATX Type] [Disabled] [Always Off]	
Wake Events RTC wake system from S5 Resume from PCIE Resume from LAN/RI	[Disabled] [Enabled] [Enabled]	
		++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

Options Summary		
Power Mode	АТХ Туре	Optimal Default, Failsafe Default
	АТ Туре	
Select system power n	node.	
Power Saving (ERP)	Disabled	Optimal Default, Failsafe Default
Control	Enabled	
Configure power mod	le for power saving func	tion.
Restore on Power	Last State	
Loss	Always On	
	Always Off	Optimal Default, Failsafe Default
Determine the system	turn on or off after AC	resume from G3 to S5 state.
RTC wake system	Disabled	Optimal Default, Failsafe Default
from S5	Fixed Time	
Fixed Time: System wil	I wake on the hr::min::s	ec specified.
Resume from PCIE	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enable/Disable Resum	e from PCIE	

Optimal Default, Failsafe Default

# 3.4.9 Compatibility Support Module Configuration

Aptio Setup L Advanced	Jtility – Copyright (C) 2017 Amer	rican Megatrends, Inc.
Compatibility Support Modu:	Le Configuration	This option controls
Boot option filter		Legacy/ofri Koms priority
Option ROM execution Storage Video	[Legacy] [Legacy]	
		++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

Options Summary		
Boot option filter	UEFI and Legacy	Optimal Default, Failsafe Default
	Legacy only	
	UEFI only	
This option controls Le	egacy/UEFI ROMs priori	ty
Storage	Do not launch	
	UEFI	
	Legacy	Optimal Default, Failsafe Default
Controls the execution	n of UEFI and Legacy Sto	brage OpROM
Video	Do not launch	
	UEFI	
	Legacy	Optimal Default, Failsafe Default
Controls the execution	n of UEFI and Legacy Vic	leo OpROM

# 3.5 Setup Submenu: Chipset

<ul> <li>&gt; System Agent (SA) Configuration</li> <li>&gt; PCH-IO Configuration</li> </ul>	stem Agent (SA) Parameters
++: 11: Ente +/- F1: F2: F3: F4: ESC	: Select Screen : Select Item ter: Select -: Change Opt. : General Help : Previous Values : Optimized Defaults : Save & Exit C: Exit

# 3.5.1 System Agent (SA) Configuration

Memory Configuration Memory Frequency Total Memory	2133 MHz 4096 MB	Graphics Configuration
Graphics Configuration		
		++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

# 3.5.1.1 Graphics Configuration

Aptio Setup Utili Chipset	ty – Copyright (C) 2017 Amer	rican Megatrends, Inc.
Graphics Configuration		Select the Video Device which will be activated during POST.
Primary IGFX Boot Display ▶ LVDS Panel Configuration		This has no effect if external graphics present. Secondary boot display selection will appear based on your selection. VGA modes will be supported only on primary display
Version 2.18.126	3. Copyright (C) 2017 Ameri(	can Megatrends, Inc.

Options Summary				
Primary IGFX Boot	VBIOS Default	Optimal Default, Failsafe Default		
Display	DVI			
	CRT/DP			
LVDS				
Select the Video Device which will be activated during POST. This has no effect if				

external graphics present.

Secondary boot display selection will appear based on your selection. VGA modes will be supported only on primary display

# 3.5.1.1.1 Graphics Configuration: LVDS Panel Configuration

[Enabled] [1024x768060Hz] [18-Bit] [Normal] [ 80%] [ 82%]	Enable/VISabled this panel
	++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

Options Summary				
LVDS	Disabled			
	Enabled	Optimal Default, Failsafe Default		
Enable/Disabled this	panel.			
LVDS Panel Type	640x480@60Hz			
	800x480@60Hz			
	800x600@60Hz			
	1024x600@60Hz			
	1024x768@60Hz	Optimal Default, Failsafe Default		
	1024x768@60Hz			
1280x800@60Hz				
	1280x1024@60Hz			
	1366x768@60Hz			
	1440x900@60Hz			
	1600x1200@60Hz			
	1920x1080@60Hz			
	1920x1200@60Hz			
Select panel type				

Options Summary			
Color Depth	18-bit	Optimal Default, Failsafe Default	
	24-bit		
	36-bit		
	48-bit		
Select panel Depth		•	
Backlight Type	Normal	Optimal Default, Failsafe Default	
	Inverted		
Select backlight contr	ol signal type		
Backlight Level	0%		
	10%		
	20%		
	30%		
	40%		
	50%		
	60%		
	70%		
	80%	Optimal Default, Failsafe Default	
	90%		
	100%		
Select backlight contr	ol level		
Backlight PWM Freq	100Hz		
	200Hz		
	220Hz	Optimal Default, Failsafe Default	
	500Hz		
	1KHz		
	2.2KHz	]	
	6.5KHz	]	
Select PWM frequency of backlight control signal			

# 3.5.2 PCH-IO Configuration

Aptio Setup Utility — ( Chipset	Copyright (C) 2021 American	Megatrends, Inc.
PCH-IO Configuration		Control the PCI Express Root
HD Audio	[Auto]	ront.
PCI Express Root Port 5 (CN11) PCIe Speed	(Enabled) [Auto]	
Half-MiniCard Slot Function	[SATA]	
Firmware Update Configuration Me FW Image Re-Flash	[Disabled]	
		++: Select Screen 14: Select Item Enter: Select +/-: Change Opt, F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2 18 1263 Co	nuright (C) 2021 American M	egatrends. Inc.

Options Summary					
HD Audio	Disabled				
	Enabled				
	Auto	Optimal Default, Failsafe Default			
Control Detection of t	ne HD-Audio device.				
Disabled = HDA will b	e unconditionally disable	ed			
Enabled = $HDA$ will be	e unconditionally enable	d			
Auto = HDA will be en	Auto = HDA will be enabled if present, disabled otherwise.				
PCI Express Root Port	Enabled	Optimal Default, Failsafe Default			
5 (CN11)	Disabled				
Control the PCI Express Root Port.					
PCIe Speed	Auto	Optimal Default, Failsafe Default			
	Gen1				
	Gen2				
	Gen3				
Configure PCIe speed.					

Options Summary			
Half-MiniCard Slot	SATA	Optimal Default, Failsafe Default	
Function	PCle		
Select function enabled for Half-MiniCard(CN13) slot			
Me FW Image Disabled Optima		Optimal Default, Failsafe Default	
Re-Flash Enabled			
Enable/Disable Me FW Image Re-Flash function.			

## 3.6 Setup Submenu: Security

Aptio Setup Main Advanced Chipset	Utility – Copyright (C) 202 Security Boot Save & Exit	1 American Megatrends, Inc.
Password Description		Customizable Secure Boot
If ONLY the Administrator' then this only limits acce only asked for when enter If ONLY the User's password boot or enter Setup. In Se have Administrator rights. The password length must b in the following range: Minimum length	s password is set, ess to Setup and is ing Setup. d is set, then this must be entered to etup the User will me	
Maximum length	20	++: Select Screen ↑↓: Select Item
Administrator Password User Password		Enter: Select +/-: Change Opt. E1: General Helm
► Secure Boot		F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

#### Change User/Administrator Password

You can set an Administrator Password or User Password. An Administrator Password must be set before you can set a User Password. The password will be required during boot up, or when the user enters the Setup utility. A User Password does not provide access to many of the features in the Setup utility.

Select the password you wish to set, and press Enter. In the dialog box, enter your password (must be between 3 and 20 letters or numbers). Press Enter and retype your password to confirm. Press Enter again to set the password.

#### Removing the Password

Select the password you want to remove and enter the current password. At the next dialog box press Enter to disable password protection.

### 3.6.1 Secure Boot



Options Summary				
Attempt Secure Boot Disabled		Optimal Default, Failsafe Default		
	Enabled			
Secure Boot activated when Platform Key(PK) is enrolled, System mode is				
User/Deployed, and CSM function is disable				
Secure Boot Mode Standard				
	Custom	Optimal Default, Failsafe Default		
Secure Boot Mode selector: Standard/Custom.				
In Custom mode Secure Boot Variables can be configured without authentication				

#### 3.6.1.1 Key Management



Options Summary				
Provision Factory	Disabled	Optimal Default, Failsafe Default		
Default	Enabled			
Allow to provision factory default Secure Boot keys when System is in Setup Mode				

# 3.7 Setup submenu: Boot

	Aptio Setup Utility – ( Main Advanced Chipset Security <mark>B</mark>	Copyright (C) 2021 American Soot Save & Exit	Megatrends, Inc.
	Boot Configuration Quiet Boot Launch PXE ROM Boot mode select	[Enabled] [Disabled] [DUAL]	Select boot mode LEGACY/UEFI/DUAL
	FIXED BOOT ORDER Priorities		
	Boot Option #1	[UEFI USB Device:UEFI: UFD 3.0 Silicon-Power8G 1.00, Partition 1]	
	Boot Option #2 Boot Option #3	[UEFI Hard Disk] [UEFI CD/DVD]	
	Boot Option #4	[UEFI Network]	th: Salact Senson
	Boot Option #6		↑↓: Select Item
	Boot Option #7	[USB Device:UFD 3.0 Silicon-Power8G 1.00]	Enter: Select +/-: Change Opt.
	Boot Option #8	[Network]	F1: General Help F2: Previous Values
	UEFI USB Drive BBS Priorities		F3: Optimized Defaults
•	USB DRIVE BBS PRIGRITIES		F4: Save & EXIT ESC: Exit

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Options Summary					
Quiet Boot	Disabled				
	Enabled	Optimal Default, Failsafe Default			
Enables or Disables Quiet Boot option.					
Launch PXE ROM	Disabled	Optimal Default, Failsafe Default			
	Enabled				
Controls the execution of Legacy PXE OpROM					
Boot mode select	LEGACY				
	UEFI				
	DUAL	Optimal Default, Failsafe Default			
Select boot mode Legacy/UEFI/DUAL					

# 3.8 Setup submenu: Save & Exit

Aptio Setup Main Advanced Chipset	<mark>Utility – Copyright (</mark> Security Boot <mark>Save</mark>	C) 2016 American & Exit	Megatrends, Inc.
Save Changes and Reset Discard Changes and Reset Restore Defaults			Reset the system after saving the changes.
			<pre>++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
### Chapter 4

Drivers Installation

### 4.1 Driver Download/Installation

Drivers for the GENE-SKU6 can be downloaded from the product page on the AAEON website by following this link:

<u>https://www.aaeon.com/en/p/embedded-single-board-computers-GENE-SKU6</u> Download the driver(s) you need and follow the steps below to install them.

### Step 1 – Install Chipset Drivers

- 1. Open the Step1 Chipset folder followed by SetupChipset.exe
- 2. Follow the instructions
- 3. Drivers will be installed automatically

### Step 2 – Install Graphics Drivers

- 1. Open the Step2 VGA folder and select your OS
- 2. Open the Setup.exe file in the folder
- 3. Follow the instructions
- 4. Drivers will be installed automatically

### Step 3 – Install LAN Drivers

- 1. Click on the Step3 LAN folder and select your OS
- 2. Open the.exe file in the folder
- 3. Follow the instructions
- 4. Drivers will be installed automatically

#### Step 4 – Install Audio Drivers

- 1. Open the Step4 Audio folder and select your OS
- 2. Open the.exe file in the folder
- 3. Follow the instructions
- 4. Drivers will be installed automatically

### Step 5 – Install USB 3.0 Driver (Windows 7 only)

- 1. Open the Step5 USB3.0 folder followed by Setup.exe
- 2. Follow the instructions
- 3. Drivers will be installed automatically

### Step 6 - Install TPM 2.0 Driver (Windows 7 only)

- 1. Open the Step6 TPM 2.0 folder followed by the .msu file
- 2. Follow the instructions
- 3. Drivers will be installed automatically

### Step 7 – Install Touch Driver

- 1. Open the Step7 PenMount Touch 6000 folder followed by Setup.exe
- 2. Follow the instructions
- 3. Drivers will be installed automatically

### Step 8 – Install Serial Port Drivers

#### For Windows 7:

1. Change User Account Control settings to Never notify



2. Reboot and log in as administrator

1 serial patch patch install install 2 sten2	
Getting Started	
Windows Media Center	
Calculator	Documents
🧭 Paint 🔸	Pictures
5 Sticky Notes	Music
Snipping Tool	Games
Remote Desktop Connection	Computer
Magnifier	Control Panel
Solitaire	Switch user Default Program: Log off
Intel® Management and Security Status	Help and Suppor
All Programs	Restart
Search programs and files	Shut down > Hibernate
(a) (a) (b)	- P* 12 € 2:08 PM

#### 3. Run patch.bat as administrator



#### For Windows 8/10:

- 1. Click on the Step8 Serial Port Driver (Optional) folder and select your OS
- 2. Open the **setup.exe** file in the folder
- 3. Follow the instructions
- 4. Drivers will be installed automatically

### 4.2 Note on EHCI

With the EHCI controller no longer available on the 6<sup>th</sup> Gen Intel® Core™ platforms, it is recommended to install Windows 7 through a SATA bus, e.g. SATA DVD-ROM, or patch the xHCI driver onto an installation media for Windows 7. More information can be found in the links below.

#### Windows 7 USB 3.0 Creator Utility

Read me

For input devices, please use an add-on standard EHCI controller expansion card, such as PCIe to USB 2.0 conversion card.

# Appendix A

Watchdog Timer Programming

### A.1 Watchdog Timer Registers

Table 1 : Watch dog relative IO address			
	Default Value	Note	
I/O Base Address	0xA10	I/O Base address for Watchdog operation. This address is assigned by SIO I DN7, register 0x60-0x61	
/1441000			

Table 2 : Watchdog relative register table				
Register	Offset	BitNum	Value	Note
Watchdog WDTRST# Enable	0x00	7	1	Enable/Disable time out output via WDTRST# 0: Disable 1: Enable
Pulse Width	0x05	0:1	01	Width of Pulse signal 00: 1ms (do not use) 01: 25ms 10: 125ms 11: 5s Pulse width is must longer then 16ms.
Signal Polarity	0x05	2	0	0: low active 1: high active Must set this bit to 0
Counting Unit	0x05	3	0	Select time unit. 0: second 1: minute
Output Signal Type	0x05	4	1	0: Level 1: Pulse Must set this bit to 1
Watchdog Timer Enable	0x05	5	1	0: Disable 1: Enable
Timeout Status	0x05	6	1	1: timeout occurred. Write a 1 to clear timeout status
Timer Counter	0x06			Time of watchdog timer (0~255)

#### Watchdog Sample Program A.2

****
// WDT I/O operation relative definition (Plaase reference to Table 1)
#define WDTAddrVE10 // WDT //O base address
#define wDTAddi 0x310 // wDTTI/O base address
wDT wDT white byte (byte Register);
Void WDTCetDeg(byte Register byte Dit byte Vel);
Void WDI setReg(Dyte Register, Dyte Bit, Dyte Val),
// Watch Dog relative definition (Please reference to lable 2)
#define DevReg 0x00 // Device conliguration register
#define WDTRstbit 0x00 // Watchdog WDTRST# (bit/)
#define Vibitstval 0x00 // Elidbled Wibitst#
#define DSWidthBit 0x00 // WDTDST# Dulcowidth (Bit0:1)
#define PSWidthDil 0x00 // WDTRST# Pulse width (bito.i)
<b>#define</b> PolyrityRit $0x07 // 2011s 101 VVD1R51# pulse$
#define Polarity/al 0x00 // towactive for W/DTRST#
#define UnitBit $0x03$ //Unit for timer (Bit3)
#define ModeRit 0x04 // WDTRST# mode (Bit4)
#define ModeVal 0v01 // 0:level 1: pulse
#define EnableBit $0x05$ // WDT timer enable (Bit5)
<b>#define</b> Enable $Val = 0x03 = 77$ with time enable (bits)
#define Status Rit $0x06$ // WDT timer status (Rit6)
#define CounterRea 0x06 // Timer counter register
**************************************
***************************************
VOID Main(){
// Procedure · AaeonWDTConfig
// (byte)Timer : Counter of WDT timer(0x00~0xFF)
// (boolean)Unit : Select time unit(0: second, 1: minute).
AaeonWDTConfig(Counter, Unit);
// Procedure : AaeonWDTEnable
// This procudure will enable the WDT counting.
AaeonWDTEnable();
}
************************************

}

}

}

// Procedure : AaeonWDTEnable

VOID AaeonWDTEnable (){ WDTEnableDisable(1);

// Procedure : AaeonWDTConfig

VOID AaeonWDTConfig (byte Counter, BOOLEAN Unit){

// Disable WDT counting WDTEnableDisable(0); // Clear Watchdog Timeout Status WDTClearTimeoutStatus(); // WDT relative parameter setting WDTParameterSetting(Timer, Unit);

VOID WDTEnableDisable(byte Value){ If (Value == 1) WDTSetBit(TimerReg, EnableBit, 1); else WDTSetBit(TimerReg, EnableBit, 0);

VOID WDTParameterSetting(byte Counter, BOOLEAN Unit){ // Watchdog Timer counter setting WDTWriteByte(CounterReg, Counter); // WDT counting unit setting WDTSetBit(TimerReg, UnitBit, Unit); // WDT output mode set to pulse WDTSetBit(TimerReg, ModeBit, ModeVal); // WDT output mode set to active low WDTSetBit(TimerReg, PolarityBit, PolarityVal); // WDT output pulse width is 25ms WDTSetBit(TimerReg, PSWidthBit, PSWidthVal); // Watchdog WDTRST# Enable WDTSetBit(DevReg, WDTRstBit, WDTRstVal); }

VOID WDTClearTimeoutStatus(){

WDTSetBit(TimerReg, StatusBit, 1);

}

}

*****	***************************************				
VOID	WDTWriteByte(byte Register, byte Value){				
	IOWriteByte(WDTAddr+Register, Value);				
}					
I- I-					

- byte WDTReadByte(byte Register){ return IOReadByte(WDTAddr+Register);
- VOID WDTSetBit(byte Register, byte Bit, byte Val){
  byte TmpValue;

TmpValue = WDTReadByte(Register); TmpValue &= ~(1 << Bit); TmpValue |= Val << Bit; WDTWriteByte(Register, TmpValue);

## Appendix B

I/O Information

### B.1 I/O Address Map

### Device Manager

File	Action	View	Help		
<	= 4	?	<b>P</b>		
	DESKTO	D_SD36/	72		
		it/output	t (IO)		
	- mpc - 1	0000000	0000000000	- 0000000000000CF71	PCI Express Root Complex
		0000000	000000020 -	- 00000000000000211	Programmable interrupt controller
		0000000	00000024 -	- 000000000000025]	Programmable interrupt controller
		0000000	00000028 -	00000000000000000029]	Programmable interrupt controller
		0000000	00000002C	- 00000000000002D]	Programmable interrupt controller
		0000000	00000002E ·	- 0000000000002F]	Motherboard resources
		0000000	00000030 ·	000000000000031]	Programmable interrupt controller
		0000000	00000034 ·	- 000000000000035]	Programmable interrupt controller
		0000000	00000038 ·	- 000000000000039]	Programmable interrupt controller
		0000000	00000003C	- 00000000000003D]	Programmable interrupt controller
		0000000	000000040	- 000000000000043]	System timer
		0000000	00000004E ·	- 00000000000004Fj	Motherboard resources
		0000000	000000050	000000000000000000000000000000000000000	System timer
		0000000	000000061	000000000000000000000000000000000000000	PS/2 Compatible Mouse
		0000000	000000000000000000000000000000000000000	. 0000000000000000000000000000000000000	Motherboard resources
		00000000	000000003	. 0000000000000000000000000000000000000	PS/2 Compatible Mouse
		0000000	000000004	- 0000000000000000000000000000000000000	Motherboard resources
		00000000	000000067	- 0000000000000000000000000000000000000	Motherboard resources
		0000000	000000070 -	- 0000000000000000000000000000000000000	Motherboard resources
		0000000	000000070 -	- 00000000000000771	System CMOS/real time clock
		0000000	000000080 -	- 00000000000000000000	Motherboard resources
		0000000	000000092 -	- 000000000000092]	Motherboard resources
		0000000	0A0000000	- 0000000000000A1]	Programmable interrupt controller
		0000000	000000A4	- 0000000000000A5]	Programmable interrupt controller
		0000000	8A000000	- 0000000000000A9]	Programmable interrupt controller
		0000000	000000AC	- 000000000000AD	Programmable interrupt controller
		0000000	000000B0	- 0000000000000B1]	Programmable interrupt controller
		0000000	000000B2	- 0000000000000B3]	Motherboard resources
		0000000	0000000B4	- 0000000000000B5]	Programmable interrupt controller
		0000000	000000B8	- 00000000000000B9]	Programmable interrupt controller
		0000000	0000000BC	- 0000000000000BD]	Programmable interrupt controller
		0000000	0000002E8 ·	- 0000000000002EF]	Communications Port (COM4)
		00000000	0000002F8	- 00000000000002FF]	Lonmunications Port (COM2)
		0000000	000000380	- 00000000000003BBJ	Intel(K) HD Graphics 610
		0000000	0000003C0	- 00000000000003DFJ	Communications Port (COM2)
	「戸」	0000000	0000003E8	. 000000000000000000000000000000000000	Communications Port (COMI)
	- 📅 I	0000000	000000400	- 000000000000000000000000000000000000	Programmable interrunt controller
		0000000	000000680	- 0000000000000069F1	Motherboard resources

Ē	늘 [000000000000680 - 00000000000069F] Motherboard resources	
Ē	ta [000000000000000 - 00000000000000A0F] Motherboard resources	
Ē	ta [00000000000A10 - 00000000000A1F] Motherboard resources	
Ē	ta [00000000000000000 - 00000000000000000	
Ē	ta [00000000000000 - 00000000000000000000	
Ē	🏣 [00000000000164E - 00000000000164F] Motherboard resources	
Ē	ta [000000000001800 - 0000000000018FE] Motherboard resources	
Ē	🏣 [000000000001854 - 000000000001857] Motherboard resources	
Ē	늘 [000000000000000 - 00000000000DFFF] Mobile 6th/7th Generation Intel(R) Processor Family I/O PCI Express Root Port #4 - 9D	013
Ē	늘 [0000000000000000 - 0000000000000000 FFF] Mobile 6th/7th Generation Intel(R) Processor Family I/O PCI Express Root Port #3 - 9D	12
Ę	🙀 [000000000000F000 - 0000000000F03F] Intel(R) HD Graphics 610	
Ē	🏣 [000000000000F040 - 00000000000F05F] Mobile 6th/7th Generation Intel(R) Processor Family I/O SMBUS - 9D23	
ŕ	📷 [0000000000006060 - 0000000000000607F] Standard SATA AHCI Controller	
ŝ	📷 [000000000000F080 - 00000000000F083] Standard SATA AHCI Controller	
ŝ	📷 [0000000000006090 - 0000000000000097] Standard SATA AHCI Controller	
Ē	늘 [00000000000FF00 - 0000000000FFFE] Motherboard resources	
Ē	늘 [00000000000FFFF - 00000000000FFFF] Motherboard resources	
Ē	늘 [00000000000FFFF - 00000000000FFFF] Motherboard resources	
B	I 1000000000000000000000000000000000000	

### B.2 Memory Address Map

Memory to make a second state of the second state of [000000000000000 - 00000000CFFFFFFF] Intel(R) HD Graphics 610 [00000000DE000000 - 0000000DEFFFFFF] Intel(R) HD Graphics 610 [00000000DF000000 - 0000000DF01FFFF] Intel(R) I210 Gigabit Network Connection #2 Tag [0000000DF000000 - 0000000DF0FFFF] Mobile 6th/7th Generation Intel(R) Processor Family I/O PCI Express Root Port #4 - 9D13 [00000000DF020000 - 0000000DF023FFF] Intel(R) I210 Gigabit Network Connection #2 [00000000DF100000 - 0000000DF11FFFF] Intel(R) I210 Gigabit Network Connection 🏣 [0000000DF100000 - 0000000DF1FFFF] Mobile 6th/7th Generation Intel(R) Processor Family I/O PCI Express Root Port #3 - 9D12 [00000000DF120000 - 0000000DF123FFF] Intel(R) I210 Gigabit Network Connection [00000000DF210000 - 00000000DF21FFFF] Intel(R) USB 3.0 eXtensible Host Controller - 1.0 (Microsoft) a [00000000DF228000 - 0000000DF229FFF] Standard SATA AHCI Controller [00000000DF22A000 - 0000000DF22A0FF] Mobile 6th/7th Generation Intel(R) Processor Family I/O SMBUS - 9D23 ma [0000000DF22B000 - 0000000DF22B7FF] Standard SATA AHCI Controller ma [0000000DF22C000 - 0000000DF22C0FF] Standard SATA AHCI Controller 🏣 [0000000DF22D000 - 0000000DF22DFFF] Mobile 6th/7th Generation Intel(R) Processor Family I/O Thermal subsystem - 9D31 [00000000DFFE0000 - 00000000DFFFFFF] Motherboard resources [0000000FD000000 - 0000000FDABFFFF] Motherboard resources [0000000FD000000 - 0000000FE7FFFF] PCI Express Root Complex [0000000FDAC0000 - 0000000FDACFFFF] Motherboard resources [0000000FDAD0000 - 0000000FDADFFFF] Motherboard resources [00000000FDAE0000 - 0000000FDAEFFFF] Motherboard resources [0000000FDAF0000 - 0000000FDAFFFFF] Motherboard resources [0000000FDB00000 - 0000000FDFFFFF] Motherboard resources [00000000FE000000 - 0000000FE01FFF] Motherboard resources [00000000FE028000 - 00000000FE028FFF1 Motherboard resources [00000000FE029000 - 00000000FE029FFF] Motherboard resources to (0000000FE030000 - 0000000FE033FFF) High Definition Audio Controller [00000000FE036000 - 00000000FE03BFFF] Motherboard resources [0000000FE03D000 - 0000000FE3FFFFF] Motherboard resources to otroller [00000007E400000 - 00000007E40FFF] High Definition Audio Controller [00000000FE410000 - 00000000FE7FFFFF] Motherboard resources timer [00000000FED00000 - 00000000FED003FF] High precision event timer [00000000FED10000 - 00000000FED17FFF] Motherboard resources [00000000FED18000 - 00000000FED18FFF] Motherboard resources [00000000FED19000 - 00000000FED19FFF] Motherboard resources [00000000FED20000 - 0000000FED3FFFF] Motherboard resources [00000000FED40000 - 0000000FED44FFF] Trusted Platform Module 2.0 [00000000FED45000 - 00000000FED8FFF] Motherboard resources [00000000FED45000 - 00000000FED8FFFF] Motherboard resources [00000000FED90000 - 0000000FED93FFF] Motherboard resources

[00000000FED45000 - 0000000FED8FFFF] Motherboard resources
 [00000000FED90000 - 0000000FEEFFFFF] Motherboard resources
 [00000000FE000000 - 0000000FFFFFFFF] Motherboard resources
 [00000000FF000000 - 0000000FFFFFFFF] Legacy device
 [00000000FF000000 - 0000000FFFFFFFF] Motherboard resources

### B.3 IRQ Mapping Chart

Interrupt request (IRQ)

	(ISA)	0x00000000 (00)	System timer
Ŵ	(ISA)	0x0000003 (03)	Communications Port (COM2)
Ŵ	(ISA)	0x00000004 (04)	Communications Port (COM1)
	(ISA)	0x0000008 (08)	System CMOS/real time clock
Ψ̈́.	(ISA)	0x000000B (11)	Communications Port (COM3)
Ŵ	(ISA)	0x000000B (11)	Communications Port (COM4)
<u>(</u>	(ISA)	0x0000000C (12)	PS/2 Compatible Mouse
	(ISA)	0x000000E (14)	Motherboard resources
	(ISA)	0x0000036 (54)	Microsoft ACPI-Compliant System
	(ISA)	0x00000037 (55)	Microsoft ACPI-Compliant System
	(ISA)	0x0000038 (56)	Microsoft ACPI-Compliant System
	(ISA)	0x00000039 (57)	Microsoft ACPI-Compliant System
	(ISA)	0x000003A (58)	Microsoft ACPI-Compliant System
	(ISA)	0x000003B (59)	Microsoft ACPI-Compliant System
	(ISA)	0x000003C (60)	Microsoft ACPI-Compliant System
	(ISA)	0x000003D (61)	Microsoft ACPI-Compliant System
	(ISA)	0x000003E (62)	Microsoft ACPI-Compliant System
	(ISA)	0x000003F (63)	Microsoft ACPI-Compliant System
	(ISA)	0x00000040 (64)	Microsoft ACPI-Compliant System
	(ISA)	0x00000041 (65)	Microsoft ACPI-Compliant System
	(ISA)	0x00000042 (66)	Microsoft ACPI-Compliant System
	(ISA)	0x00000043 (67)	Microsoft ACPI-Compliant System
	(ISA)	0x00000044 (68)	Microsoft ACPI-Compliant System
	(ISA)	0x00000045 (69)	Microsoft ACPI-Compliant System
	(ISA)	0x00000046 (70)	Microsoft ACPI-Compliant System
	(ISA)	0x00000047 (71)	Microsoft ACPI-Compliant System
	(ISA)	0x00000048 (72)	Microsoft ACPI-Compliant System
	(ISA)	0x00000049 (73)	Microsoft ACPI-Compliant System
	(ISA)	0x0000004A (74)	Microsoft ACPI-Compliant System
	(ISA)	0x0000004B (75)	Microsoft ACPI-Compliant System
	(ISA)	0x0000004C (76)	Microsoft ACPI-Compliant System
	(ISA)	0x0000004D (77)	Microsoft ACPI-Compliant System
	(ISA)	0x0000004E (78)	Microsoft ACPI-Compliant System
	(ISA)	0x0000004F (79)	Microsoft ACPI-Compliant System
	(ISA)	0x00000050 (80)	Microsoft ACPI-Compliant System
	(ISA)	0x00000051 (81)	Microsoft ACPI-Compliant System
	(ISA)	0x00000052 (82)	Microsoft ACPI-Compliant System
	(ISA)	0x00000053 (83)	Microsoft ACPI-Compliant System
	(ISA)	0x00000054 (84)	Microsoft ACPI-Compliant System
	(ISA)	0x00000055 (85)	Microsoft ACPI-Compliant System
	(ISA)	0x00000056 (86)	Microsoft ACPI-Compliant System
		<ul> <li>(ISA)</li> <li></li></ul>	<ul> <li>(ISA) 0x0000000 (00)</li> <li>(ISA) 0x0000000 (03)</li> <li>(ISA) 0x0000000 (04)</li> <li>(ISA) 0x0000000 (04)</li> <li>(ISA) 0x0000000 (08)</li> <li>(ISA) 0x0000000 (11)</li> <li>(ISA) 0x0000000 (11)</li> <li>(ISA) 0x0000000 (11)</li> <li>(ISA) 0x0000000 (11)</li> <li>(ISA) 0x0000000 (12)</li> <li>(ISA) 0x0000000 (14)</li> <li>(ISA) 0x0000000 (14)</li> <li>(ISA) 0x0000000 (14)</li> <li>(ISA) 0x0000003 (55)</li> <li>(ISA) 0x0000003 (56)</li> <li>(ISA) 0x0000038 (59)</li> <li>(ISA) 0x0000038 (59)</li> <li>(ISA) 0x0000038 (62)</li> <li>(ISA) 0x0000038 (62)</li> <li>(ISA) 0x0000038 (63)</li> <li>(ISA) 0x0000038 (63)</li> <li>(ISA) 0x0000041 (65)</li> <li>(ISA) 0x0000041 (65)</li> <li>(ISA) 0x0000042 (66)</li> <li>(ISA) 0x0000044 (68)</li> <li>(ISA) 0x0000044 (68)</li> <li>(ISA) 0x0000044 (70)</li> <li>(ISA) 0x0000044 (70)</li> <li>(ISA) 0x0000044 (72)</li> <li>(ISA) 0x0000044 (73)</li> <li>(ISA) 0x0000044 (74)</li> <li>(ISA) 0x0000044 (75)</li> <li>(ISA) 0x0000044 (76)</li> <li>(ISA) 0x0000044 (74)</li> <li>(ISA) 0x0000044 (74)</li> <li>(ISA) 0x0000044 (75)</li> <li>(ISA) 0x0000044 (76)</li> <li>(ISA) 0x0000045 (80)</li> <li>(ISA) 0x0000045 (80)</li> <li>(ISA) 0x0000055 (85)</li> </ul>

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to (ISA) 0x0000007F (127)	Microsoft ACPI-Compliant System
📘 (ISA) 0x0000080 (128)	Microsoft ACPI-Compliant System
tion (ISA) 0x0000081 (129)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000082 (130)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000083 (131)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000084 (132)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000085 (133)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000086 (134)	Microsoft ACPI-Compliant System
tisA) 0x0000087 (135) 🏣	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000088 (136)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x0000089 (137)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000008A (138)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000008B (139)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000008C (140)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000008D (141)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000008E (142)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000008F (143)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000090 (144)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000091 (145)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000092 (146)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000093 (147)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000094 (148)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000095 (149)	Microsoft ACPI-Compliant System
tox (ISA) 0x00000096 (150)	Microsoft ACPI-Compliant System
tisA) 0x00000097 (151)	Microsoft ACPI-Compliant System
tisA) 0x0000098 (152)	Microsoft ACPI-Compliant System
tisA) 0x00000099 (153)	Microsoft ACPI-Compliant System
tisa) 0x0000009A (154)	Microsoft ACPI-Compliant System
tisA) 0x0000009B (155)	Microsoft ACPI-Compliant System
tion (ISA) 0x0000009C (156)	Microsoft ACPI-Compliant System
tion (ISA) 0x0000009D (157)	Microsoft ACPI-Compliant System
E (ISA) 0x000009E (158)	Microsoft ACPI-Compliant System
E (ISA) 0x0000009F (159)	Microsoft ACPI-Compliant System
tion (ISA) 0x000000A0 (160)	Microsoft ACPI-Compliant System
tion (ISA) 0x000000A1 (161)	Microsoft ACPI-Compliant System
(ISA) 0x000000A2 (162)	Microsoft ACPI-Compliant System
(ISA) 0x000000A3 (163)	Microsoft ACPI-Compliant System
(ISA) 0x000000A4 (164)	Microsoft ACPI-Compliant System
(ISA) 0x000000A5 (165)	Microsoft ACPI-Compliant System
(ISA) 0x000000A6 (166)	Microsoft ACPI-Compliant System
(ISA) 0x000000A7 (167)	Microsoft ACPI-Compliant System
(ISA) 0x000000A8 (168)	Microsoft ACPI-Compliant System

🏣 (ISA) 0x00000056 (86)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000057 (87)	Microsoft ACPI-Compliant System
뻱 (ISA) 0x00000058 (88)	Microsoft ACPI-Compliant System
뻱 (ISA) 0x00000059 (89)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000005A (90)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x0000005B (91)	Microsoft ACPI-Compliant System
뻱 (ISA) 0x0000005C (92)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000005D (93)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000005E (94)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000005F (95)	Microsoft ACPI-Compliant System
📘 (ISA) 0x0000060 (96)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000061 (97)	Microsoft ACPI-Compliant System
📘 (ISA) 0x0000062 (98)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x0000063 (99)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x0000064 (100)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000065 (101)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000066 (102)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000067 (103)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000068 (104)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000069 (105)	Microsoft ACPI-Compliant System
Talina (ISA) 0x0000006A (106)	Microsoft ACPI-Compliant System
tori) (ISA) 0x0000006B (107)	Microsoft ACPI-Compliant System
📘 (ISA) 0x0000006C (108)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000006D (109)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000006E (110)	Microsoft ACPI-Compliant System
Table (ISA) 0x0000006F (111)	Microsoft ACPI-Compliant System
tin (ISA) 0x00000070 (112)	Microsoft ACPI-Compliant System
뻱 (ISA) 0x00000071 (113)	Microsoft ACPI-Compliant System
뻱 (ISA) 0x00000072 (114)	Microsoft ACPI-Compliant System
tisA) 0x00000073 (115)	Microsoft ACPI-Compliant System
뻱 (ISA) 0x00000074 (116)	Microsoft ACPI-Compliant System
뻱 (ISA) 0x00000075 (117)	Microsoft ACPI-Compliant System
til (ISA) 0x00000076 (118)	Microsoft ACPI-Compliant System
뻱 (ISA) 0x00000077 (119)	Microsoft ACPI-Compliant System
뻱 (ISA) 0x00000078 (120)	Microsoft ACPI-Compliant System
tion (ISA) 0x00000079 (121)	Microsoft ACPI-Compliant System
[ (ISA) 0x0000007A (122)	Microsoft ACPI-Compliant System
E (ISA) 0x000007B (123)	Microsoft ACPI-Compliant System
to (ISA) 0x0000007C (124)	Microsoft ACPI-Compliant System
Text (ISA) 0x0000007D (125)	Microsoft ACPI-Compliant System
tion (ISA) 0x0000007E (126)	Microsoft ACPI-Compliant System
tin (ISA) 0x0000007F (127)	Microsoft ACPI-Compliant System

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<ul> <li>(ISA) 0x00000A8 (168)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000A4 (170)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AE (171)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AE (172)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AE (173)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AF (175)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AF (175)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AF (175)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B0 (176)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B1 (177)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B2 (178)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B2 (178)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B3 (179)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B6 (182)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B7 (183)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B7 (183)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B8 (187)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B8 (187)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B8 (189)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B7 (199)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B7 (190)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B7 (190)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B7 (191)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C1 (192)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C1 (193)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C2 (194)</li> <l< th=""><th></th><th></th><th></th><th></th></l<></ul>				
<ul> <li>(ISA) 0x00000A9 (169)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000A (170)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AC (172)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AC (173)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AF (175)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B1 (177)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B2 (178)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B3 (179)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B4 (180)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B5 (181)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B6 (182)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B8 (184)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B8 (184)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B8 (186)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000BB (187)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000BB (189)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000BB (189)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000BE (190)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000BE (190)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C0 (192)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C2 (194)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C2 (194)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C2 (198)</li> <li< th=""><th>Ĭ.</th><th>(ISA)</th><th>0x000000A8 (168)</th><th>Microsoft ACPI-Compliant System</th></li<></ul>	Ĭ.	(ISA)	0x000000A8 (168)	Microsoft ACPI-Compliant System
<ul> <li>(ISA) 0x00000AA (170)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AC (172)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AD (173)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AE (174)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000AE (175)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B1 (177)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B2 (178)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B5 (181)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B6 (182)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B6 (182)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B7 (183)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B8 (184)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000B8 (184)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000BB (185)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000BE (188)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000BE (199)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C1 (193)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C2 (194)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C2 (194)</li> <li>Microsoft ACPI-Compliant System</li> <li>(ISA) 0x00000C6 (198)</li> <l< th=""><th></th><th>(ISA)</th><th>0x000000A9 (169)</th><th>Microsoft ACPI-Compliant System</th></l<></ul>		(ISA)	0x000000A9 (169)	Microsoft ACPI-Compliant System
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<ul> <li>ISA) 0x00000088 (184)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x000000BA (186)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000BB (187)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000BC (188)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000BC (188)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000BD (189)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000BE (190)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000BE (190)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x000000E (191)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C0 (192)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C1 (193)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C2 (194)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C2 (194)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C2 (194)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C3 (195)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C4 (196)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C6 (198)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C6 (198)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C7 (199)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C8 (200)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C8 (201)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C8 (202)</li> <li>Microsoft ACPI-Compliant System</li> <li>ISA) 0x00000C2 (204)</li> <li>Microsoft ACPI-Complia</li></ul>		(ISA)	0x000000B7 (183)	Microsoft ACPI-Compliant System
<ul> <li>IISA) 0x000000B9 (185)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000BA (186)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000BC (188)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000BD (189)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000BE (190)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000BE (190)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x000000BF (191)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C0 (192)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C1 (193)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C2 (194)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C2 (194)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C3 (195)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C4 (196)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C5 (197)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C6 (198)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C8 (200)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C8 (200)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C8 (201)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C8 (202)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C8 (203)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C8 (204)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C8 (203)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C8 (204)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C8 (204)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000C8 (205)</li> <li>Microsoft ACPI-Compliant System</li> <li>IISA) 0x00000101 (256)</li></ul>		(ISA)	0x000000B8 (184)	Microsoft ACPI-Compliant System
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(ISA) 0x00000124 (292)	Microsoft ACPI-Compliant System
tisA) 0x00000125 (293)	Microsoft ACPI-Compliant System
(ISA) 0x00000126 (294)	Microsoft ACPI-Compliant System
(ISA) 0x00000127 (295)	Microsoft ACPI-Compliant System
(ISA) 0x00000128 (296)	Microsoft ACPI-Compliant System
E (ISA) 0x00000129 (297)	Microsoft ACPI-Compliant System
(ISA) 0x0000012A (298)	Microsoft ACPI-Compliant System
E (ISA) 0x0000012B (299)	Microsoft ACPI-Compliant System
(ISA) 0x0000012C (300)	Microsoft ACPI-Compliant System
🚛 (ISA) 0x0000012D (301)	Microsoft ACPI-Compliant System

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to (ISA) 0x0000012D (301)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000012E (302)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000012F (303)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000130 (304)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000131 (305)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000132 (306)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000133 (307)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000134 (308)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000135 (309)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000136 (310)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000137 (311)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000138 (312)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000139 (313)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000013A (314)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000013B (315)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000013C (316)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000013D (317)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000013E (318)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000013F (319)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000140 (320)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000141 (321)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000142 (322)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000143 (323)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000144 (324)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000145 (325)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000146 (326)	Microsoft ACPI-Compliant System
늘 (ISA) 0x00000147 (327)	Microsoft ACPI-Compliant System
뻱 (ISA) 0x00000148 (328)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000149 (329)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000014A (330)	Microsoft ACPI-Compliant System
tisA) 0x0000014B (331)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000014C (332)	Microsoft ACPI-Compliant System
Langle (ISA) 0x0000014D (333)	Microsoft ACPI-Compliant System
(ISA) 0x0000014E (334)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000014F (335)	Microsoft ACPI-Compliant System
들 (ISA) 0x00000150 (336)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000151 (337)	Microsoft ACPI-Compliant System
tox(ISA) 0x00000152 (338)	Microsoft ACPI-Compliant System
tox(ISA) 0x00000153 (339)	Microsoft ACPI-Compliant System
tox(ISA) 0x00000154 (340)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000155 (341)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000156 (342)	Microsoft ACPI-Compliant System

ta (ISA) 0x00000156 (342)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000157 (343)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000158 (344)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000159 (345)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x0000015A (346)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000015B (347)	Microsoft ACPI-Compliant System
tox0000015C (348) 🗽 🚛	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000015D (349)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000015E (350)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000015F (351)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000160 (352)	Microsoft ACPI-Compliant System
tox00000161 (353) 🚛	Microsoft ACPI-Compliant System
to (ISA) 0x00000162 (354)	Microsoft ACPI-Compliant System
to (ISA) 0x00000163 (355)	Microsoft ACPI-Compliant System
to (ISA) 0x00000164 (356)	Microsoft ACPI-Compliant System
to (ISA) 0x00000165 (357)	Microsoft ACPI-Compliant System
to (ISA) 0x00000166 (358)	Microsoft ACPI-Compliant System
tox00000167 (359)	Microsoft ACPI-Compliant System
to (ISA) 0x00000168 (360)	Microsoft ACPI-Compliant System
to (ISA) 0x00000169 (361)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000016A (362)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000016B (363)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000016C (364)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000016D (365)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000016E (366)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000016F (367)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000170 (368)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000171 (369)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000172 (370)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000173 (371)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000174 (372)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000175 (373)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000176 (374)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000177 (375)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000178 (376)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000179 (377)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000017A (378)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000017B (379)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000017C (380)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000017D (381)	Microsoft ACPI-Compliant System
	Misses of ACDL Consultant Systems
뻱 (ISA) 0x0000017E (382)	Microsoft ACPI-Compliant System

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tox0000017F (383) 🚛	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000180 (384)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000181 (385)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000182 (386)	Microsoft ACPI-Compliant System
tai (ISA) 0x00000183 (387)	Microsoft ACPI-Compliant System
tal: (ISA) 0x00000184 (388)	Microsoft ACPI-Compliant System
tal: (ISA) 0x00000185 (389)	Microsoft ACPI-Compliant System
tin (ISA) 0x00000186 (390)	Microsoft ACPI-Compliant System
tin (ISA) 0x00000187 (391)	Microsoft ACPI-Compliant System
tin (ISA) 0x00000188 (392)	Microsoft ACPI-Compliant System
tox00000189 (393) 🚛 🚛	Microsoft ACPI-Compliant System
tal: (ISA) 0x0000018A (394)	Microsoft ACPI-Compliant System
tal: (ISA) 0x0000018B (395)	Microsoft ACPI-Compliant System
tal: (ISA) 0x0000018C (396)	Microsoft ACPI-Compliant System
tai (ISA) 0x0000018D (397)	Microsoft ACPI-Compliant System
tin (ISA) 0x0000018E (398)	Microsoft ACPI-Compliant System
tin (ISA) 0x0000018F (399)	Microsoft ACPI-Compliant System
tox) 0x00000190 (400)	Microsoft ACPI-Compliant System
tox (ISA) 0x00000191 (401)	Microsoft ACPI-Compliant System
tox (ISA) 0x00000192 (402)	Microsoft ACPI-Compliant System
tox (ISA) 0x00000193 (403)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000194 (404)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000195 (405)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000196 (406)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000197 (407)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000198 (408)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x00000199 (409)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000019A (410)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000019B (411)	Microsoft ACPI-Compliant System
tial (ISA) 0x0000019C (412)	Microsoft ACPI-Compliant System
tin (ISA) 0x0000019D (413)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x0000019E (414)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x0000019F (415)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001A0 (416)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001A1 (417)	Microsoft ACPI-Compliant System
tal: (ISA) 0x000001A2 (418)	Microsoft ACPI-Compliant System
tin (ISA) 0x000001A3 (419)	Microsoft ACPI-Compliant System
늘 (ISA) 0x000001A4 (420)	Microsoft ACPI-Compliant System
Langleright (ISA) 0x000001A5 (421)	Microsoft ACPI-Compliant System
(ISA) 0x000001A6 (422)	Microsoft ACPI-Compliant System
Langle (ISA) 0x000001A7 (423)	Microsoft ACPI-Compliant System
E (ISA) 0x000001A8 (424)	Microsoft ACPI-Compliant System

🏣 (ISA) 0x000001A8 (424)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001A9 (425)	Microsoft ACPI-Compliant System
to (ISA) 0x000001AA (426)	Microsoft ACPI-Compliant System
tox000001AB (427)	Microsoft ACPI-Compliant System
to (ISA) 0x000001AC (428)	Microsoft ACPI-Compliant System
to (ISA) 0x000001AD (429)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001AE (430)	Microsoft ACPI-Compliant System
tox000001AF (431)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001B0 (432)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001B1 (433)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001B2 (434)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001B3 (435)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001B4 (436)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001B5 (437)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001B6 (438)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001B7 (439)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001B8 (440)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001B9 (441)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001BA (442)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001BB (443)	Microsoft ACPI-Compliant System
to (ISA) 0x000001BC (444)	Microsoft ACPI-Compliant System
to (ISA) 0x000001BD (445)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001BE (446)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001BF (447)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001C0 (448)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001C1 (449)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001C2 (450)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001C3 (451)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001C4 (452)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001C5 (453)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001C6 (454)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001C7 (455)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001C8 (456)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001C9 (457)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001CA (458)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001CB (459)	Microsoft ACPI-Compliant System
to (ISA) 0x000001CC (460)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001CD (461)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000001CE (462)	Microsoft ACPI-Compliant System
tial (ISA) 0x000001CF (463)	Microsoft ACPI-Compliant System
🏣 (ISA) 0x000001D0 (464)	Microsoft ACPI-Compliant System
tailed (ISA) 0x000001D1 (465)	Microsoft ACPI-Compliant System

(ISA)	0x000001D1 (465)	Microsoft ACPI-Compliant System
(ISA)	0x000001D2 (466)	Microsoft ACPI-Compliant System
(ISA)	0x000001D3 (467)	Microsoft ACPI-Compliant System
(ISA)	0x000001D4 (468)	Microsoft ACPI-Compliant System
(ISA)	0x000001D5 (469)	Microsoft ACPI-Compliant System
(ISA)	0x000001D6 (470)	Microsoft ACPI-Compliant System
(ISA)	0x000001D7 (471)	Microsoft ACPI-Compliant System
(ISA)	0x000001D8 (472)	Microsoft ACPI-Compliant System
(ISA)	0x000001D9 (473)	Microsoft ACPI-Compliant System
(ISA)	0x000001DA (474)	Microsoft ACPI-Compliant System
(ISA)	0x000001DB (475)	Microsoft ACPI-Compliant System
(ISA)	0x000001DC (476)	Microsoft ACPI-Compliant System
(ISA)	0x000001DD (477)	Microsoft ACPI-Compliant System
(ISA)	0x000001DE (478)	Microsoft ACPI-Compliant System
(ISA)	0x000001DF (479)	Microsoft ACPI-Compliant System
(ISA)	0x000001E0 (480)	Microsoft ACPI-Compliant System
(ISA)	0x000001E1 (481)	Microsoft ACPI-Compliant System
(ISA)	0x000001E2 (482)	Microsoft ACPI-Compliant System
(ISA)	0x000001E3 (483)	Microsoft ACPI-Compliant System
(ISA)	0x000001E4 (484)	Microsoft ACPI-Compliant System
(ISA)	0x000001E5 (485)	Microsoft ACPI-Compliant System
(ISA)	0x000001E6 (486)	Microsoft ACPI-Compliant System
(ISA)	0x000001E7 (487)	Microsoft ACPI-Compliant System
(ISA)	0x000001E8 (488)	Microsoft ACPI-Compliant System
(ISA)	0x000001E9 (489)	Microsoft ACPI-Compliant System
(ISA)	0x000001EA (490)	Microsoft ACPI-Compliant System
(ISA)	0x000001EB (491)	Microsoft ACPI-Compliant System
(ISA)	0x000001EC (492)	Microsoft ACPI-Compliant System
(ISA)	0x000001ED (493)	Microsoft ACPI-Compliant System
(ISA)	0x000001EE (494)	Microsoft ACPI-Compliant System
(ISA)	0x000001EF (495)	Microsoft ACPI-Compliant System
(ISA)	0x000001F0 (496)	Microsoft ACPI-Compliant System
(ISA)	0x000001F1 (497)	Microsoft ACPI-Compliant System
(ISA)	0x000001F2 (498)	Microsoft ACPI-Compliant System
(ISA)	0x000001F3 (499)	Microsoft ACPI-Compliant System
(ISA)	0x000001F4 (500)	Microsoft ACPI-Compliant System
(ISA)	0x000001F5 (501)	Microsoft ACPI-Compliant System
(ISA)	0x000001F6 (502)	Microsoft ACPI-Compliant System
(ISA)	0x000001F7 (503)	Microsoft ACPI-Compliant System
(ISA)	0x000001F8 (504)	Microsoft ACPI-Compliant System
(ISA)	0x000001F9 (505)	Microsoft ACPI-Compliant System
(ISA)	0x000001FA (506)	Microsoft ACPI-Compliant System

Ľ,	(ISA) 0x000001FA (50	<ol><li>Microsoft ACPI-Compliant System</li></ol>
Ĩ.	(ISA) 0x000001FB (50	7) Microsoft ACPI-Compliant System
	(ISA) 0x000001FC (50	<li>B) Microsoft ACPI-Compliant System</li>
Ĩ.	(ISA) 0x000001FD (50	9) Microsoft ACPI-Compliant System
Ľ,	(ISA) 0x000001FE (51)	<ol> <li>Microsoft ACPI-Compliant System</li> </ol>
Ľ,	(ISA) 0x000001FF (51)	<ol> <li>Microsoft ACPI-Compliant System</li> </ol>
1	(PCI) 0x0000000B (11)	Mobile 6th/7th Generation Intel(R)
1	(PCI) 0x0000000B (11)	Mobile 6th/7th Generation Intel(R)
Ĩ.	(PCI) 0x00000010 (16)	High Definition Audio Controller
	(PCI) 0xFFFFFFEE (-1	3) Intel(R) I210 Gigabit Network Conn
ģ	(PCI) 0xFFFFFFFFF (-1	<ol> <li>Intel(R) I210 Gigabit Network Conn</li> </ol>
	(PCI) 0xFFFFFFFF0 (-1	<ol> <li>Intel(R) I210 Gigabit Network Conn</li> </ol>
	(PCI) 0xFFFFFFFF1 (-1	<ol> <li>Intel(R) I210 Gigabit Network Conn</li> </ol>
	(PCI) 0xFFFFFFFF2 (-1	<ol> <li>Intel(R) I210 Gigabit Network Conn</li> </ol>
	(PCI) 0xFFFFFFFF3 (-1	<ol><li>Intel(R) I210 Gigabit Network Conn</li></ol>
	(PCI) 0xFFFFFFFF4 (-1	<ol><li>Intel(R) I210 Gigabit Network Conn</li></ol>
	(PCI) 0xFFFFFFFF5 (-1	i) Intel(R) I210 Gigabit Network Conn
	(PCI) 0xFFFFFFF6 (-1	<ol> <li>Intel(R) I210 Gigabit Network Conn</li> </ol>
	(PCI) 0xFFFFFFFF7 (-9	Intel(R) I210 Gigabit Network Conne
	(PCI) 0xFFFFFFF8 (-8	Intel(R) I210 Gigabit Network Conne
	(PCI) 0xFFFFFFF9 (-7	Intel(R) I210 Gigabit Network Conne
Ŷ	(PCI) 0xFFFFFFFA (-6	Intel(R) USB 3.0 eXtensible Host Cor
	(PCI) 0xFFFFFFFB (-5	Intel(R) HD Graphics 610
7	(PCI) 0xFFFFFFFFC (-4	Standard SATA AHCI Controller
Ľ,	(PCI) 0xFFFFFFFD (-3)	Mobile 6th/7th Generation Intel(R)

The (PCI) 0xFFFFFFFE (-2) Mobile 6th/7th Generation Intel(R) Processor Family I/O PCI Express Root Port #3 - 9D12

### Appendix C

Electrical Specifications for I/O Ports

### C.1 Electrical Specifications for I/O Ports

I/O	Reference	Signal Name	Rate Output
DVI Port	CN3	+5V	+5V/1A (reserved)
DP port	CN5	+3.3V	+3.3V/1A
LVDS Port	CN6	+3.3V/+5V	+3.3V/2A or +5V/2A
LVDS Port Inverter / Backlight Connector	CN7	+5V/+12V	+5V/1.5A or +12V/1.5A
Mini-Card Slot (Full-Mini Card)	CN11	+3.3VSB +1.5V	+3.3V/1.1A +1.5V/0.375A
Mini-Card Slot (Half-Mini Card)	CN13	+3.3VSB +1.5V	+3.3V/1.1A +1.5V/0.375A
+5V Output for SATA HDD	CN15	+5V	+5V/1A
USB 3.0 Ports	CN18	+5VSB	+5V/1A (per channel)
USB 3.0 Ports	CN19	+5VSB	+5V/1A (per channel)
USB 2.0 Ports	CN20	+5VSB	+5V/0.5A (per channel)
USB 2.0 Ports	CN21	+5VSB	+5V/0.5A (per channel)
Audio I/O Port	CN22	+5V	+5V/1A
Digital IO Port	CN24	+5V	+5V/1A
COM Port 4	CN26	+5V/+12V	+5V/0.5A or +12V/0.5A
COM Port 2	CN27	+5V/+12V	+5V/0.5A or +12V/0.5A
COM Port 3	CN28	+5V/+12V	+5V/0.5A or +12V/0.5A
LPC Port	CN29	+3.3V	+3.3V/0.5A
CPU FAN	CN36	+12V	+12V/0.5A

# Appendix D

Digital I/O Ports

GENE-SKU

### D.1 Electrical Specifications for Digital I/O Ports

Table 1 : Digital Input/Output Pin Electrical Specification						
Pin	Type Voltage		hreshold tage	Output Voltage		Note
		Low	High	Low	High	
DIO0	1/0	0.8	2.0	0	5	
DIO1	I/O	0.8	2.0	0	5	
DIO2	I/O	0.8	2.0	0	5	
DIO3	I/O	0.8	2.0	0	5	
DIO4	I/O	0.8	2.0	0	5	
DIO5	1/0	0.8	2.0	0	5	
DIO6	1/0	0.8	2.0	0	5	
DIO7	I/O	0.8	2.0	0	5	

Note: All DIO pins are 5V tolerant in input mode.

### D.2 DI/O Programming

GENE-SKU6 utilizes FINTEK F81866D chipset as its Digital I/O controller. Below are the procedures to complete its configuration and the AAEON initial DI/O program is also attached, based on which you can develop customized program to fit your application.

There are three steps to complete the configuration setup:

- (1) Enter the MB PnP Mode
- (2) Modify the data of configuration registers

(3) Exit the MB PnP Mode. Undesired result may occur if the MB PnP Mode is not exited normally.

### D.3 Digital I/O Register

Table 2 : SuperIO relative register table			
Default Value Note			
Index	0x2E	SIO MB PnP Mode Index Register	
		SIO MB PnP Mode Data Register	
Data	0x2F)	0x2F or 0x4F	

Table 3 : Digital Input/Output relative register table					
	LDN	Register	Bit	Note	
DIO0 Direction	0x06	0xA0	0	0:input, 1: output	
DIO1 Direction	0x06	0xA0	1		
DIO2 Direction	0x06	0xA0	2		
DIO3 Direction	0x06	0xA0	3		
DIO4 Direction	0x06	0xA0	4		
DIO5 Direction	0x06	0xA0	5		
DIO6 Direction	0x06	0xA0	6		
DIO7 Direction	0x06	0xA0	7		
DIO0 Output Level	0x06	0xA1	0	0:low, 1: high	
DIO1Output Level	0x06	0xA1	1		
DIO2 Output Level	0x06	0xA1	2		
DIO3 Output Level	0x06	0xA1	3		
DIO4 Output Level	0x06	0xA1	4		
DIO5 Output Level	0x06	0xA1	5		
DIO6 Output Level	0x06	0xA1	6		
DIO7 Output Level	0x06	0xA1	7		
DIO0 Status	0x06	0xA2	0	0:low, 1: high	
DIO1 Status	0x06	0xA2	1		
DIO2 Status	0x06	0xA2	2		
DIO3 Status	0x06	0xA2	3		
DIO4 Status	0x06	0xA2	4		
DIO5 Status	0x06	0xA2	5		
DIO6 Status	0x06	0xA2	6		
DIO7 Status	0x06	0xA2	7		

### D.4 Digital I/O Sample Program

*****	******
// SuperIO relative definition (Please reference to Table 2)	
#define SIOIndex 0x2E	
#define SIOData 0x2F	
#define DIOLDN 0x06	
IOWriteByte( <b>byte</b> IOPort, <b>byte</b> Value);	
IOReadByte( <b>byte</b> IOPort);	
// DIO relative definition (Please referen	ce to Table 3)
#define DirReg 0xA0 /,	/ 0:input, 1: output
#define InputPin 0x00	
<b>#define</b> OutputPin 0x01	
#define OutputReg 0xA1 /	1/ 0:low, 1: high
#define StatusReg 0xA2 //	′ 0:low, 1: high
#define PinLow 0x00	
#define PinHigh 0x01	
#define PinOBit 0x00	
#define Pin1Bit 0x01	
#define Pin2Bit 0x02	
#define Pin3Bit 0x03	
#define Pin4Bit 0x04	
#define Pin5Bit 0x05	
#define Pin6Bit 0x06	
#define Pin7Bit 0x07	
***************************************	
***************************************	
VOID Main(){	
Boolean PinStatus :	
// Procedure : AaeonReadPinStatus	
// Input :	
// Example, Read Digital I/O Pin 3 status	

// Output :

// InputStatus :

// 0: Digital I/O Pin level is low

// 1: Digital I/O Pin level is High

PinStatus = AaeonReadPinStatus(**Pin3Bit**);

// Procedure : AaeonSetOutputLevel

Example, Set Digital I/O Pin 2 to high level AaeonSetOutputLevel(Pin2Bit, PinHigh); Boolean A aeonReadPinStatus(byte PinBit){ Boolean PinStatus; PinStatus = SIOBitRead(DIOLDN, StatusReg, PinBit); Return PinStatus : VOID A aeonSetOutputLevel(byte PinBit, byte Value){ ConfigDioMode(PinBit, OutputPin); SIOBitSet(DIOLDN, OutputReg, PinBit, Value); SIOEnterMBPnPMode(){ IOWriteByte(SIOIndex, 0x87); IOWriteByte(SIOIndex, 0x87); } VOID SIOExitMBPnPMode(){ IOWriteByte(SIOIndex, 0xAA); } VOID SIOSelectLDN(byte LDN){ IOWriteByte(SIOIndex, 0x07); // SIO LDN Register Offset = 0x07 IOWriteByte(SIOData, LDN); } SIOBitSet(byte LDN, byte Register, byte BitNum, byte Value){ VOID Byte TmpValue; SIOEnterMBPnPMode(); SIOSelectLDN(LDN); IOWriteByte(SIOIndex, Register); TmpValue = IOReadByte(SIOData);

TmpValue &= ~(1 << BitNum);

TmpValue |= (Value << BitNum);

// Input :

IOWriteByte(SIOData, TmpValue); SIOExitMBPnPMode();

}

### VOID SIOByteSet(byte LDN, byte Register, byte Value){

SIOEnterMBPnPMode(); SIOSelectLDN(LDN); IOWriteByte(SIOIndex, Register); IOWriteByte(SIOData, Value); SIOExitMBPnPMode();

```
Boolean SIOBitRead(byte LDN, byte Register, byte BitNum){
```

Byte TmpValue;

SIOEnterMBPnPMode(); SIOSelectLDN(LDN); IOWriteByte(SIOIndex, Register); TmpValue = IOReadByte(SIOData); TmpValue &= (1 << BitNum); SIOExitMBPnPMode(); If(TmpValue == 0) Return 0; Return 1;

}

### VOID ConfigDioMode(byte PinBit, byte Mode){

Byte TmpValue;

SIOEnterMBPnPMode(); SIOSelectLDN(DIOLDN); IOWriteByte(SIOIndex, **DirReg**); TmpValue = IOReadByte(SIOData); TmpValue |= (Mode << **PinBit**); IOWriteByte(SIOData, **DirReg**); SIOExitMBPnPMode();

}

\*\*\*\*\*

# Appendix E

Mating Connectors and Cables
## E.1 Mating Connectors and Cables

Connector Label	Function	Mating Connector		Available	Cable
		Vendor	Modelno	Cable	P/N
CN1	External RTC Connector	Molex	51021-0200	Battery Cable	175011901C
CN6	LVDS Connector	HIROSE	DF13-30DS-1.25C	N/A	N/A
CN7	LVDS Inverter Connector	JST	PHR-5	N/A	N/A
CN14	SATA Connector	Molex	88750-5318	SATA Cable	1709070500
CN15	+5Vout Connector	JST	PHR-2	2 Pins For HDD Power	1702150155
CN20	USB Port Connector	Molex	51021-0500	USB Wafer Cable	1700050207
CN21	USB Port Connector	Molex	51021-0500	USB Wafer Cable	1700050207
CN22	Audio Connector	Molex	51021-1000	Audio Cable	1709100254
CN23	Touch Screen Connector	JST	SHR-9V-S-B	N/A	N/A
CN24	Digital I/O Connector	Neltron	2026B-10	N/A	N/A
CN25	COM Port1 Connector	Molex	51021-0900	Serial Port Cable	1701090150
CN26	COM Port 4 Connector	Molex	51021-0900	Serial Port Cable	1701090150
CN27	COM Port 2 Connector	Molex	51021-0900	Serial Port Cable	1701090150
CN28	COM Port 3 Connector	Molex	51021-0900	Serial Port Cable	1701090150

Appendix E – Mating Connectors and Cables

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Connector Label	Function	Mating Connector		Available	Cable
		Vendor	Modelno	Cable	P/N
CN30	+9~36V Vin Connector	N/A	N/A	Power Cable	1702002010
CN32	External +5VSB Power output and PS_ON#	Catch Electron ics	2418HJ-06	N/A	N/A
CN 33	External +5VSB Power Input and PS_ON#	JST	PHR-3	ATX Cable	170220020B
CN36	CPU Fan Connector	Molex	22-01-2035	N/A	N/A