

### VPC-5620S

Industrial & Mobile NVR

User's Manual 2<sup>nd</sup> Ed

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### Packing List

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

ltem		Quantity
•	VPC-5620S	1
•	SATA Cable	2
•	Power Cable for SATA	2
•	DIMM Thermal Pad	1
•	Mating Connector for Power Input	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 reference.

- 1. All cautions and warnings on the device should be noted.
- All cables and adapters supplied by AAEON are certified and in accordance with the material safety laws and regulations of the country of sale. Do not use any cables or adapters not supplied by AAEON to prevent system malfunction or fires.
- 3. Make sure the power source matches the power rating of the device.
- 4. 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.
- 7. 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.
- 8. Always disconnect this device from any AC supply before cleaning.
- 9. While cleaning, use a damp cloth instead of liquid or spray detergents.
- 10. Make sure the device is installed near a power outlet and is easily accessible.
- 11. Keep this device away from humidity.
- 12. Place the device on a solid surface during installation to prevent falls.
- 13. Do not cover the openings on the device to ensure optimal heat dissipation.
- 14. Watch out for high temperatures when the system is running.
- 15. Do not touch the heat sink or heat spreader when the system is running.
- 16. 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.
- 18. 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

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

### FCC Statement



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 System

### QO4-381 Rev.A0

			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	0
及其电子组件	x	0	0	0	0	0
外部信号		0	0	0	0	0
连接器及线材	×	0	0	0	0	0
外壳	0	0	0	0	0	0
中央处理器		0	0	0	0	0
与内存	x	0	0	0	0	0
硬盘	×	0	0	0	0	0
液晶模块	×	×	0	0	0	0
光驱	×	0	0	0	0	0
触控模块	×	0	0	0	0	0
电源	×	0	0	0	0	0
电池	×	0	0	0	0	0
本表格依据 SJ/T 11364 的规定编制。						

 〇: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 GB/T 26572标准规定的限量要求以下。

×: 表示该有害物质的某一均质材料超出了GB/T 26572的限量要求, 然而该部件 仍符合欧盟指令2011/65/EU 的规范。

备注:

一、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。

二、上述部件物质中央处理器、内存、硬盘、光驱、电源为选购品。

三、上述部件物质液晶模块、触控模块仅一体机产品适用。

### China RoHS Requirement (EN)

### Hazardous and Toxic Materials List

### AAEON System

### QO4-381 Rev.A0

		Haza	ardous or <sup>-</sup>	loxic Materia	als or Elements	;
Component Name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (Cr(VI))	Polybrominat ed biphenyls (PBBs)	Polybrominat ed diphenyl ethers (PBDEs)
PCB and Components	Х	0	0	0	0	0
Wires &						
Connectors for	Х	0	0	0	0	0
Ext.Connections						
Chassis	0	0	0	0	0	0
CPU & RAM	Х	0	0	0	0	0
HDD Drive	Х	0	0	0	0	0
LCD Module	Х	Х	0	0	0	0
Optical Drive	Х	0	0	0	0	0
Touch Control	V	0	0		0	
Module	X	0	0	0	0	0
PSU	Х	0	0	0	0	0
Battery	Х	0	0	0	0	0

This form is prepared in compliance with the provisions of SJ/T 11364.

O: The level of toxic or hazardous materials present in this component and its parts is below the limit specified by GB/T 26572.

X: The level of toxic of hazardous materials present in the component exceed the limits specified by GB/T 26572, but is still in compliance with EU Directive 2011/65/EU (RoHS 2). Notes:

1. The Environment Friendly Use Period indicated by labelling on this product is applicable only to use under normal conditions.

2. Individual components including the CPU, RAM/memory, HDD, optical drive, and PSU are optional.

3. LCD Module and Touch Control Module only applies to certain products which feature these components.

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# VPC-56209

## Chapter 1

Product Specifications

### 1.1 Specifications

System	
Form Factor	Multi-PoE & Fanless Appliance
Processor	8 <sup>th</sup> Generation Intel® Core™ Processor:
	Default: Core i7-8665UE
	Project Base:
	Core i5-8365UE
	Core i3-8145UE
	Celeron® 4305UE
Chipset	_
Main Memory	Up to 64GB, DDR4 260-pin SODIMM
Display	HDMI x 1
	DP x 1
Ethernet	1 x Gbps Ethernet, Intel® i211 chipset;
	Wake-on-LAN and PXE supported
Smart PoE	4 ports (max. 8 ports per project basis);
	IEEE 802.3 at/af, total 60W total power for
	every four ports. Supports independent
	power management of individual PoE ports
	via SDK package.
RAID support	0/1
Expansion Slot	VPC-5620S IS:
	1 x mPCle Full-Size (USB + PCle)
	1 x mPCle Full-Size (USB + SATA) co-lay SATA
	1 x M.2 2280 (USB + PCIe), supports NVMe
	PCIe [x4] SSD

System	
Expansion Slot (Continued)	VPC-5620 VS:
	3 x mPCIe Full-Size (USB + PCIe)
	1 x mPCle Full-Size (USB + SATA) co-lay SATA
	1 x M.2 2280 (USB + PCIe), supports NVMe
	PCIe [x4] SSD
GPS, G-Sensor	VPC-5620 VS only:
	Built-in GPS, Gyro & G-Sensor
Front I/O Panel	4 x RJ45 Smart PoE Port (60W total)
	4 x USB3.2 Gen 1
	1 x Gbps LAN port
	1 x DP
	Power Button
	Status LED
	HDD LED
	Wireless LED
	2 x Micro SIM slots (VPC-5620 IS)
	4 x Micro SIM slots (VPC-5620S VS)
	2 x Antenna holes
	1 x CANbus (VPC-5620S VS)
	3 x RS-232 (VPC-5620S VS)
Rear I/O Panel	1 x Audio Jack (Line Out & Mic In)
	1 x HDMI port
	2 x RS-232/422/485 (isolated by BOM
	option)
	1 x Hardware Reset
	1 x 3-pin Power Input

System	
Rear I/O Panel (Continued)	8-bit DIO (Isolated 4DI & 4DO, 8DI, or 8DO
	per BOM option)
	2 x Antenna holes
Storage	
HDD Tray	VPC-5620S IS: 2.5" HDD/SSD Bay x 2
	VPC-5620S VS: 2.5" HDD/SSD Bay x 1
CF/CFast/mSATA Slot	_
Envrionmental	
Operating Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Storage Temperature	-40°F ~ 185°F (-40°C ~ 85°C)
Storage Humidity	10%~80% at 40°C, non-condensing
Vibration/Shock	MIL-STD-810G
Certification	CE & FCC Class A
Power Requirements	
Power Supply	VPC-5620S IS: DC 12~24V
	VPC-5620S VS: DC 10~36V with power
	ignition
Mechanical	
Removable HDD Tray	_
Internal System HDD Bay	VPC-5620S IS: 2.5" HDD/SSD Bay x 2
	VPC-5620S VS: 2.5" HDD/SSD Bay x 1
Dimensions	VPC-5620S IS: 6.3" x 5.87" x 2.16" (180mm x
	149mm x 55mm)

Mechanical	
Dimensions (Continued)	VPC-5620S VS: 6.3" x 5.87" x 2.95" (180mm x
	149mm x 75mm)
Gross Weight	TBD
Note	_

## Chapter 2

Hardware Information

### 2.1 Dimensions

### 2.1.1 Industrial Chassis











### 2.1.2 Main Board

### Component side









Solder side





























### 2.2 Jumpers and Connectors

### Main Board Top



### Main Board Bottom



### 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
CN10	Clear CMOS
CN12	Front Panel
CN27	DCIN Select Header (by Power Board or DCIN)

### 2.3.1 Clear CMOS (CN10)





**Note:** To prevent damage or unwanted operation, do not use any other configuration than what is shown in this diagram

### 2.3.2 Front Panel (CN12)

Pin Selection	Function
1-2 Open	For Box PC Operation
1-2 Closed	For In-Vehicle PC Operation

**Note:** This jumper set selects whether the VPC-5620S is powered by DCIN port or by Power Board.



PER-T528 Power Board



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

Label	Function
Audio1	Audio Front & Mic Connector
BAT1	Battery Connector
CN4	Ethernet 2~5 with POE
CN5	Dual USB3.1 Ports
CN6	Dual USB3.1 Ports
CN7	Ethernet 1 (no PoE)
CN8	SATA Power
CN11	SATA Power
CN13	For Bios Debug
CN14	M.2 M-Key 2280 Slot (Supports PCIe [x4] and SATA)
CN15	Expansion Board Connector
CN16	Mini Card Slot (Full Function) paired to SIM1
CN17	Vehicle Power Board Expansion Connector
CN18	Vehicle Power Board Expansion Connector
CN19	Serial Port4 (RS232)
CN20	Serial Port 3(RS232)
CN21	DIO Connector
CN22	DCIN (Default) +
CN23	DCIN (Option) +
CN24	Serial Port1 (RS232/422/485)
CN25	Serial Port2 (RS232/422/485)
CN26	Display Port 2 (Option) †

τ	
J	

Label	Function
DIMM1	DDR4 SODIMM
DIMM2	DDR4 SODIMM
DP1	Display Port 1
HDMI1	HDMI Connector (Default) +
LED1	HDD/Status/CN16-WLAN LED
LPC1	For Debug
MSATA1	mSATA Slot (SATA+USB2.0) paired to SIM2 <sup>+</sup>
SATA1	SATA Connector
SATA2	SATA Connector †
SW1	Power Button
SW2	Software Reset Button

**†Note**: These connectors have optional co-lay/ signal sharing configurations as follows:

1. SATA2 standard config; mSATA slot optional, utilizes the SATA2 signal

2. CN22 standard config; CN23 is co-lay option (board will only have CN22 or

CN23)

3. HDMI1 is standard config; CN26 is co-lay optional (board will only have HDMI1 or CN26)
| ⊳ <mark>01</mark> |
|-------------------|
| 0                 |
| 0                 |
| 0                 |

Pin	Signal	Pin	Signal
1	NA	2	GND
3	GND	4	+5V

# 2.4.2 Front Panel Connector (CN12)



Pin	Signal	Pin	Signal
1	PWR_SW#	2	FPANSWH#
3	GND	4	HWRST#
5	GND	6	FPANSWH#





#### 2.4.4 Vehicle Power Board Expansion Connector (CN17)

<mark>80</mark>	0	0	<b>0</b> 5
40	0	ο	

Pin	Signal	Pin	Signal
1	Ground	2	DCIN
3	Ground	4	DCIN
5	Ground	6	V-out (by PER-T528)
7	Ground	8	V-out (by PER-T528)

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Pin	Signal	Pin	Signal
1	ACC_IN	2	PWRBD_EN
3	PS_ON#	4	REMOTE_SW
5	PWR_SW#	6	RXD
7	TXD	8	

#### 2.4.6 RS-232 Serial Port 3/ 4 Connector (CN19/CN20)

CN19
1
000000000

Pin	Signal	Pin	Signal
1	DCD	2	DSR
3	RXD	4	RTS
5	TXD	6	CTS
7	DTR	8	RI
9	GND		



Pin	Signal	Pin	Signal
1	GND	2 GP-In0	
3	GP-In1	4	GP-In2
5	GP-In3	6	+5V
7	GP-Out0	8	GP-Out1
9	GP-Out2	10	GP-Out3

# 2.4.8 DC Input (12~24V) (CN22)



Pin	Signal
1	ACC
2	GND
3	DCIN

Chapter 2 – Hardware Information

#### 2.4.9 RS-232 Serial Port 1/2 Connector (CN24/CN25)

Pin	Signal	RS485	RS422	Pin	Signal	RS485	RS422
1	DCD	DATA-	TX-	2	DSR		
3	RXD	DATA+	TX+	4	RTS		
5	TXD		RX+	6	CTS		
7	DTR		RX-	8	RI		
9	GND						

Note: Table shows default Pin settings for RS422 and RS485.

#### 2.4.10 Software Reset Switch (SW2)

SW2 is a Software Programable Button. GPIO Mapping/Pin Mapping is SIO GPIO76 by FinTEK.

Status: Open = 1 / Close = 0

#### 2.5 Block Diagram



#### 2.6 PER-T528 Power Expansion Board

#### 2.6.1 PER-T528 Jumpers and Connectors



### 2.6.2 PER-T528 List of Connectors

Label	Function		
CN1	Power Connector to VPC-5620S		
CN2	Fuse Connector		
CN5	MCU Programming Pin		
CN9	Communication Pin Connector (connect to VPC-5620S)		
CN10	Communication Pin Header (connect to VPC-5620S; PER-T528 A03 not used)		

#### 2.6.2.1 Power Connector (CN1)

Pin	Signal	Pin	Signal
1	GND	2	GND
3	GND	4	GND
5	Vin	6	Vin
7	Vout	8	Vout

### 2.6.2.2 MCU Programming Pin (CN5)

Pin	Signal	Pin	Signal
1	#MCLR	2	VCC
3	GND	4	ICSPDTA
5	ICSPCLK		

#### 2.6.2.3 Communication Pin Connector (CN9)



Pin	Signal	Pin	Signal
1	ACC_IN	2	GND
3	PS_ON#	4	REMOTE_SW
5	PWR_SW#	6	RXD#5
7	TXD#5		

#### 2.6.2.4 Communication Pin Header (CN10)



Pin	Signal	Pin	Signal
1	RXD#5	2	PS_ON#
3	TXD#5	4	GND
5	REMOTE_SW	6	ACC_IN
7	PWR_SW#	8	NC

#### 2.7 PER-T529 In-Vehicle Expansion Board

#### 2.7.1 PER-T529 Jumpers and Connectors

#### Top View



#### Bottom View



#### 2.7.2 PER-T529 List of Jumpers

Label	Function
CN6	Reserved for Debug
CN7	Reserved for Debug

#### 2.7.2.1 Reserved for Debug (CN6)





#### 2.7.2.2 Reserved for Debug (CN7)





Chapter 2 – Hardware Information

#### 2.7.3 PER-T529 List of Connectors

Label	Function
CN1	Serial Port 1 (RS232 only)
CN2	Serial Port 2 (RS232 only)
CN3	Serial Port 3 (RS232 only)
CN4	Can Bus Connector
CN5	GPS Antenna Connector
CN8	Board to Board Connector
CN9	Mini Card Slot (Full Function) paired to SIM3
CN10	Mini Card Slot (Full Function) paired to SIM1
CN12	Power Input Connector (Option)

# 2.7.3.1 CAN Bus Connector (CN4)



Pin	Signal	Pin	Signal
1	CAN DATA+	2	CAN DATA-



# 2.7.3.2 Board to Board Connector (CN8)

#### 2.7.3.3 Power Connection (CN12)

		1	ຄ
4		o	3
2	O	0	1

Pin	Signal	Pin	Signal
1	GND	2	GND
3	PWR IN	4	PWR IN

Note: For Mini Card Al Modules, CN12 uses greater than 15W of power.

#### 2.8.1 2.5" SATA Drive and Bottom Panel Assembly



Front/PoE View. Note orientation of 2.5" SATA drive connectors



Rear/COM Port View



## 2.9 System Assembly (Expanded Chassis)

#### 2.9.1 2.5" SATA Drive and Bottom Panel Assembly



Front/System PoE View. Note the orientation of the SATA drive cables



Rear System View. Note the orientation of the SATA drive cables

Step One: Remove IO Faceplate



Step Two: Remove Daughter Board; DDR4 slot is located on same sides as USB Ports



Alternate view for step 2:



Reassemble in reverse, making sure to secure each daughter board and the faceplate.

#### 2.9.3 Wall Mount Assembly



#### Chapter 2 – Hardware Information

# Chapter 3

AMI BIOS Setup

VPC-56209

#### 3.1 System Test and Initialization

The system 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 and configure advanced processor options and features.

Chipset - Chipset and host bridge options and features

Security - The setup administrator password can be set here

Boot - Set boot options including boot priority and Quiet Boot option

Save & Exit – Save your changes and exit the program

# 3.3 Setup Submenu: Main

Aptio Setup Utility – Main Advanced Chipset Security	Copyright (C) 2021 American Boot Save & Exit	Megatrends, Inc.
BIOS Information VPC-5620S R1.0 (P562AM10)(05/11/	2021)	Set the Date. Use Tab to switch between Date elements. Default Renges:
BIOS Vendor Compliancy	American Megatrends UEFI 2.7; PI 1.6	Year: 2005-2099 Months: 1-12 Days: dependent on month
System Date System Time	[Thu 05/13/2021] [01:41:11]	
Access Level	Administrator	
		<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>
Version 2.20.1275. Co	pyright (C) 2021 American M	egatrends, Inc.

Chapter 3 – AMI BIOS Setup

# 3.4 Setup Submenu: Advanced

Aptio Setup Utility – Copyright Main Advanced Chipset Security Boot Save	(C) 2021 American Megatrends, Inc. : & Exit
<ul> <li>CPU Configuration</li> <li>PCH-FW Configuration</li> <li>SATA And RST Configuration</li> <li>NVMe Configuration</li> <li>Hardware Monitor</li> <li>SID Configuration</li> <li>AAEON Features</li> <li>Power Management</li> <li>Digital IO Port Configuration</li> <li>Status LED Configuration</li> <li>Network Stack Configuration</li> </ul>	CPU Configuration Parameters ++: Select Screen 1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2,20,1275. Copyright ((	) 2021 American Megatrends, Inc.

# 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         Intel(R) Core(T)           I7-8665UE CPU @           ID         0x806EC           Stepping         V0           Microcode Revision         CA           Speed         2000 MHz           L1 Data Cache         32 KB × 4           L2 Instruction Cache         32 KB × 4           L2 Cache         8 MB	Intel(R) Core(TM) 17-8665UE CPU @ 1.70GHz 0x806EC V0 CA 2000 MHz 32 KB × 4 32 KB × 4 32 KB × 4 256 KB × 4 8 MB	each processor package.
L4 Cache VMX SMX/TXT	N/A Supported Supported	→+: Select Screen †↓: Select Item Enter: Select
Active Processor Cores Hyper-Threading	[All] [Enabled]	4/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

Options Summary			
Active Processor Cores	All	Optimal Default, Failsafe Default	
	1		
	2		
	3		
Number of cores to enable in each processor package.			
Hyper-Threading	Enabled	Optimal Default, Failsafe Default	
	Disabled		
Enabled or disabled Hyper-Threading Technology.			

# 3.4.2 PCH-FW Configuration

Aptio Setup Utility Advanced	– Copyright (C) 2021 America	n Megatrends, Inc.
ME Firmware Version ME Firmware Mode ME Firmware SKU ME Firmware Status 1 ME Firmware Status 2	12.0.35.1427 Normal Mode Consumer SKU 0xA0000255 0x80100106	Configure Management Engine Technology Parameters
▶ Firmware Update Configuration		
		++: Select Screen †1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.1275.	Copyright (C) 2021 American I	fegatrends, Inc.

# 3.4.2.1 Firmware Update Configuration

Me FW Image Re-Flash	[Disabled]	
LoCal FW Update	[Enabled]	Enable/Disable Me FW Image Re—Flash function.
		<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		
ME FW Image Re-Flash	Enabled	
	Disabled	Optimal Default, Failsafe Default
Enable/Disable ME FW Image Re-Flash function.		
Local FW Update	Enabled	Optimal Default, Failsafe Default
	Disabled	
Options for Local FW Update function.		

#### 3.4.3 SATA and RST Configuration



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Options Summary			
SATA	Enabled	Optimal Default, Failsafe Default	
Controller(s)	Disabled		
Enable/Disable S/	ATA Device.		
SATA Mode	АНСІ	Optimal Default, Failsafe Default	
Selection	Intel RST Premium With Intel		
	Optane System Acceleration		
Determines how	SATA controller(s) operate.		
Serial ATA Port 0	Disabled	Optimal Default, Failsafe Default	
Hot Plug	Enabled		
Designates this port as Hot Pluggable			
Serial ATA Port 1	Disabled	Optimal Default, Failsafe Default	
Hot Plug	Enabled		
Designates this port as Hot Pluggable			

# 3.4.4 NVMe Configuration

Aptio Setup Utility – Copyright (C) 2021 American Advanced	Megatrends, Inc.
NVMe Configuration	
No NVME Device Found	
	<pre>++: Select Screen t1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESD: Exit</pre>
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#### 3.4.5 Hardware Monitor

Aptio Setup Utility Advanced	y – Copyright (C) 2021	American Megatrends, Inc.
Pc Health Status		
CPU Temperature System Temperature	: +49 °c : +44 °c	
VCORE +5V +3.3V 3VSB 5VSB VBAT	: +0.744 V : +1.184 V : +5.003 V : +3.280 V : +3.312 V : +5.040 V : +3.088 V	++: Select Screen 1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Varaian 0.00.4075	- 0	

# 3.4.6 SIO Configuration

Aptio Setup Utility – Copyright (C) 2021 American Advanced	Megatrends, Inc.
AMI SID Driver Version : A5.09.01 Super ID Chip Logical Device(s) Configuration • [*Active*] Serial Port 1 [*Active*] Serial Port 2 [*Active*] Serial Port 3 [*Active*] Serial Port 4 • [*Active*] Serial Port 5 [*Active*] Serial Port 6 [*Active*] Serial Port 7 [*Active*] Serial Port 7 [*Active*] Serial Port 8 • [*Active*] Serial Port 9	View and Set Basic properties of the SIO Logical device. Like IO Base, IRQ Range, DMA Channel and Device Mode.
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.	<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>

#### 3.4.6.1 Serial Port 1 Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2019 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 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

**Options Summary** Optimal Default, Failsafe Default Use This Device Enabled Disabled Enable or Disable this Logical Device. Use Automatic Settings Optimal Default, Failsafe Default Device resource settings IO=3F8h; IRQ = 4; 10=2F8h; IRQ = 3; Allows the user to change the device resource settings. New settings will be reflected on this setup page after system restarts. RS232 Optimal Default, Failsafe Default UART selection RS422 RS485 UART RS232, 422, 485 selection.

# 3.4.6.2 Serial Port 2 Configuration

Aptio Setup Utility – Advanced	Copyright (C) 2019 American	Megatrends, Inc.
Serial Port 2 Configuration		Allows the user to change the
Use This Device	[Enabled]	settings will be reflected on this setup page after system
Logical Device Settings: Current : IO=2F8h; IRQ=3;		restarts.
Possible:		
Mode :	[RS232]	
WARNING: Disabling SIO Logical Devic side effects.	es may have unwanted	
PROCEED WITH CAUTION.		≁+: Select Screen ↑↓: Select Item
		Enter: Select +/-: Change Ont
		F1: General Help
		F3: Optimized Defaults
		ESC: Exit
Version 2 20 1275 Pc	upupidht (C) 2019 American M	erstrende Inc

Options Summary			
Use This Device	Enabled	Optimal Default, Failsafe Default	
	Disabled		
Enable or Disable this L	ogical Device.		
Device resource	Use Automatic Settings	Optimal Default, Failsafe Default	
settings	10=2F8h; IRQ = 3;		
	10=3F8h; IRQ = 4;		
Allows the user to chan	Allows the user to change the device resource settings. New settings will be		
reflected on this setup	bage after system restar	ts.	
UART selection	RS232	Optimal Default, Failsafe Default	
	RS422		
	RS485		
UART RS232, 422, 485 selection.			

# 3.4.6.3 Serial Port 3 Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2021 American	Megatrends, Inc.
Serial Port 3 Configuration		Enable or Disable this Logical
Use This Device		Device.
Logical Device Settings: Current : IO=3E8h; IRQ=11;		
Possible:	[Use Automatic Settings]	
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>

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Options Summary				
Use This Device	Enabled	Optimal Default, Failsafe Default		
	Disabled			
Enable or Disable this Logical Device.				
Device resource	Use Automatic Settings	Optimal Default, Failsafe Default		
settings	10=3E8h; IRQ = 11;			
	IO=2E8h; IRQ = 11;			
Allows the user to change the device resource settings. New settings will be				
reflected on this setup page after system restarts.				

#### 3.4.6.4 Serial Port 4 Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2021 American	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]	
WARNING: Disabling SIO Logical Devic side effects. PROCEED WITH CAUTION.	es may have unwanted	++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
	1.1.1. (0) 0001 0 1	

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Options Summary				
Use This Device	Enabled	Optimal Default, Failsafe Default		
	Disabled			
Enable or Disable this Logical Device.				
Device resource	Use Automatic Settings	Optimal Default, Failsafe Default		
settings	IO=2E8h; IRQ = 11;			
	IO=3E8h; IRQ = 11;			
Allows the user to change the device resource settings. New settings will be				
reflected on this setup page after system restarts.				
# 3.4.6.5 Serial Port 5 Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2021 American	Megatrends, Inc.
Serial Port 5 Configuration		Enable or Disable this Logical
Use This Device		DEVICE.
Logical Device Settings: Current : IO=2DOh; IRQ=11;		
Possible:	[Use Automatic Settings]	
Settings] WARNING: Disabling SIO Logical Devices may have unwanted side effects. PROCEED WITH CAUTION. ++: Select Screen T4: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit		
Vancion 2 20 1275 Depunielt (D) 2021 American Magathanda The		

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Options Summary			
Use This Device	Enabled	Optimal Default, Failsafe Default	
	Disabled		
Enable or Disable this L	ogical Device.		
Device resource	Use Automatic Settings	Optimal Default, Failsafe Default	
settings	10=2D0h; IRQ = 11;		
	10=2C0h; IRQ = 11;		
Allows the user to change the device resource settings. New settings will be			
reflected on this setup page after system restarts.			

# 3.4.6.6 Serial Port 6 Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2021 American	Megatrends, Inc.
Serial Port 6 Configuration		Enable or Disable this Logical
Use This Device		DEVICE.
Logical Device Settings: Current : IO=2COh; IRQ=11;		
Possible:	[Use Automatic Settings]	
Settings] WARNING: Disabling SID Logical Devices may have unwanted side effects. PROCEED WITH CAUTION. **: Select Screen 11: Select Item Enter: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit		
Vancion 2 20 1275 Depunielt (D) 2021 American Magathanda The		

Options Summary			
Use This Device	Enabled	Optimal Default, Failsafe Default	
	Disabled		
Enable or Disable this L	ogical Device.		
Device resource	Use Automatic Settings	Optimal Default, Failsafe Default	
settings	10=2C0h; IRQ = 11;		
	10=2D0h; IRQ = 11;		
Allows the user to change the device resource settings. New settings will be			
reflected on this setup page after system restarts.			

# 3.4.6.7 Serial Port 7 Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2021 American	Megatrends, Inc.
Serial Port 7 Configuration		Enable or Disable this Logical
Use This Device		
Logical Device Settings: Current : IO=2C8h; IRQ=10;		
Possible:	[Use Automatic Settings]	
Possible: [Use Automatic Settings] WARNING: Disabling SIO Logical Devices may have unwanted side effects. PROCEED WITH CAUTION. ++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit		
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Options Summary			
Use This Device	Enabled	Optimal Default, Failsafe Default	
	Disabled		
Enable or Disable this Logical Device.			
Device resource	Use Automatic Settings	Optimal Default, Failsafe Default	
settings	IO=2C8h; IRQ = 10;		
	IO=2D8h; IRQ = 10;		
Allows the user to change the device resource settings. New settings will be			

reflected on this setup page after system restarts.

# 3.4.6.8 Serial Port 8 Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2021 American	Megatrends, Inc.
Serial Port 8 Configuration		Enable or Disable this Logical
Use This Device		Device.
Logical Device Settings: Current : IO=2D8h; IRQ=10;		
Possible:	[Use Automatic Settings]	
Settings] WARNING: Disabling SID Logical Devices may have unwanted side effects. PROCEED WITH CAUTION. ++: Select Screen 11: Select Item Enter: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit		
Vencion 0.00 4075 . 0	numiekt (C) 0004 American M	eretronde. Tee

Options Summary			
Use This Device	Enabled	Optimal Default, Failsafe Default	
	Disabled		
Enable or Disable this L	ogical Device.		
Device resource	Use Automatic Settings	Optimal Default, Failsafe Default	
settings	10=2D8h; IRQ = 11;		
	10=2C8h; IRQ = 11;		
Allows the user to change the device resource settings. New settings will be			
reflected on this setup page after system restarts.			

# 3.4.6.9 Serial Port 9 Configuration

Aptio Setup Utility - Advanced	Copyright (C) 2021 American	Megatrends, Inc.
Serial Port 9 Configuration		Enable or Disable this Logical
Use This Device		
Logical Device Settings: Current : IO=2EOh; IRQ=10;		
Possible:	[Use Automatic Settings]	
WARNING: Disabling SIO Logical Devices may have unwanted side effects.         PROCEED WITH CAUTION.         **: Select Screen         11: Select Item         Entries         F1: General Help         F2: Previous Values         F3: Optimized Defaults         F4: Save & Exit         ESC: Exit		
Vancian 2 20 4275 - Ca	nuniabt (C) 2021 Amonicon M	oratoonda Teo

Options Summary			
Use This Device	Enabled	Optimal Default, Failsafe Default	
	Disabled		
Enable or Disable this Logical Device.			
Device resource	Use Automatic Settings	Optimal Default, Failsafe Default	
settings	IO=2E0h; IRQ = 10;		
	IO=2F0h; IRQ = 10;		
Allows the user to change the device resource settings. New settings will be			

reflected on this setup page after system restarts.

# 3.4.7 Power Management

Aptio Setup Advanced	Utility – Copyright (C) 2021 Ame	rican Megatrends, Inc.
Power Management		Select system power mode.
Wake Events RTC wake system from S5	[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 2.2	20.1275. Copyright (C) 2021 Ameri	can Megatrends, Inc.

Options Summary				
Power Mode	АТХ Туре	Optimal Default, Failsafe Default		
	АТ Туре			
Select power supply ma	ode.			
RTC wake system from	Disabled	Optimal Default, Failsafe Default		
S5	Enabled			
Fixed Time: System will	Fixed Time: System will make on the hr::min::sec specified.			
Dynamic Time: System	will wake on the current	time + Increase minute(s).		
Bypass: BIOS will not co	ntrol RTC wake function	during system shutdown.		
RTC wake system from	Enabled			
S5				
Wake up day	0			
Select 0 for daily system wake up, 1-31 for which day of the month that you would				
like the system to wake	up			

Options Summary		
Wake up hour	0	
Select 0-23 For example	e enter 3 for 3am and 15	i for 3pm
Wake up minute	0	
0 - 59		
Wake up second	0	
0 - 59		

#### **Digital IO Port Configuration** 3.4.8



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Options Summary			
DIO Type	Output	Optimal Default, Failsafe Default	
	Input		
Set DIO as Input or Output			
DIO Data	Low		
	High	Optimal Default, Failsafe Default	
Set is output level when DIO pin is output			

# 3.4.9 Status LED Configuration

Aptio Setup Ut Advanced	ility – Copyright (C) 2021 A	merican Megatrends, Inc.
Status LED Configuration		Configure Status LED.
	(LED OFF)	
		++: Select Screen 1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.	1275, Copyright (C) 2021 Ame	rican Megatrends, Inc.

Options Summary		
Status LED	LED OFF	Optimal Default, Failsafe Default
	Red LED on	
	Red LED Blink	
	Red LED fast blink	
	Green LED on	
	Green LED blink	
	Green LED fast blink	
Configure Status LED.		

# 3.4.10 Network Stack Configuration

Aptio Setu; Advanced	o Utility – Copyright (C) 2019 An	merican Megatrends, Inc.
Network Stack	[Disabled]	Enable/Disable UEFI Network Stack
		1: Select Screen 1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2	.20.1275. Copyright (C) 2019 Amer	rican Megatrends, Inc.

Chapter 3 – AMI BIOS Setup

# 3.4.10.1 Network Stack Configuration (Enabled)



Options Summary			
Network Stack	Disabled		
	Enabled	Optimal Default, Failsafe Default	
Enable/Disable UEFI Ne	etwork Stack		
Ipv4 PXE Support	Disabled		
	Enabled	Optimal Default, Failsafe Default	
Enable/Disable IPv4 PX	E boot support. If disable	ed, IPv4 PXE boot support will not	
be available.			
lpv4 HTTP Support	Disabled	Optimal Default, Failsafe Default	
	Enabled		
Enable/Disable IPv4 HT	TP boot support. If disal	oled, IPv4 HTTP boot support will	
not be available.			
PXE boot wait time	0	Optimal Default, Failsafe Default	
Wait time in seconds to press ESC key to abort the PXE boot. Use either +/- or			
numeric keys to set the	value.		

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0	ptio	ns Si	umr	nary

Media detect count

1

Optimal Default, Failsafe Default

Number of times the presence of media will be checked. Use either +/- or numeric keys to set the value.

# 3.5 Setup Submenu: Chipset

f Main Advanced	Aptio Setup Utility – d Chipset Security	Copyright (C) 2 Boot Save & Ex	2019 American N Kit	Megatrends, Inc.
▶ System Agent (S ▶ PCH-IO Configur	SA) Configuration Pation			<pre>\$ System Agent (SA) Parameters \$ **: Select Screen \$ 1: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>
	Version 2.20.1275. C	opyright (C) 201	19 American Me	gatrends, Inc.

# 3.5.1 System Agent (SA) Configuration

	Aptio Setup Utility – Chipset	Copyright (C) 2021 American	Megatrends, Inc.
System Agent	(SA) Configuration		VT-d capability
VT-d		Supported	
Memory Confi; Total Memory Memory Frequ Channel O Size Channel 1 Si	guration ency ot O	8192 MB 2400 MHz Populated & Enabled 8192 MB (DDR4) Not Populated / Disabled	
VT-d			++: Select Screen 14: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

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Options Summary		
VT-d	Enabled	
	Disabled	Optimal Default, Failsafe Default
VT-d capability.		

# 3.5.2 PCH-IO Configuration

Aptio Setup Uti Chipset	ility – Copyright (C) 2021 Ar	merican Megatrends, Inc.
PCH-IO Configuration		Control Detection of the
HD Audio eMMC 5.0 Controller	(Enabled) (Enabled)	Disabled = HDA will be unconditionally disabled Enabled = HDA will be unconditionally enabled.
		<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			
HD Audio	Enabled	Optimal Default, Failsafe Default	
	Disabled		
Control the Detection c	of the Audio device.		
Disabled = HDA will be unconditionally disabled.			
Enabled = HDA will be unconditionally enabled.			
eMMC 5.0 Controller	Enabled	Optimal Default, Failsafe Default	
	Disabled		
Enable or disable SCS eMMC 5.0 Controller			

# 3.6 Setup Submenu: Security

Aptio Setup Util Main Advanced Chipset Secu	ity – Copyright (C) 2019 American rity <mark>Boot Save &amp; Exit</mark>	n Megatrends, Inc.
Password Description		Set User Password
If ONLY the Administrator's part then this only limits access to only asked for when entering S If ONLY the User's password is is a power on password and mus boot or enter Setup. In Setup have Administrator rights. The password length must be in the following range: Minimum length	ssword is set, o Setup and is etup. set, then this t be entered to the User will 3	
Maximum length	20	
		14: Select Item
Administrator Password		Enter: Select
		F1: General Help
▶ Secure Boot		F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit
Version 2.20.12	75. Copyright (C) 2019 American M	Megatrends, Inc.

# 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.

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# 3.6.1 Secure Boot



Options Summary				
Secure Boot	Disable	Optimal Default, Failsafe Default		
	Enable			
Secure Boot feature is Active if Secure Boot is Enabled, Platform Key (PK) is enrolled and the System mode is in User mode. The mode change requires platform reset.				
Secure Boot Mode	Standard			
	Custom	Optimal Default, Failsafe Default		
Secure Boot Mode options: Standard or Custom. In Custom mode, Secure Boot Policy variables can be configured by a physically present user without full authentication.				
Restore Factory Keys	No			
	Yes	Press 'Yes' to restore factory keys		
Force System to User Mode. Install factory default Secure Boot key databases				

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Options Summary

Key Management

Enables expert users to modify Secure Boot Policy variables without full authentication

# 3.6.2 Key Management



Options Summary				
Factory Key Provision	Disabled	Optimal Default, Failsafe Default		
	Enabled			
Install factory default Se	ecure Boot keys after the	e platform reset and while the		
System is in Setup mod	e.			
Restore Factory Keys	No	Press 'Yes' to install factory		
	Yes	default keys		
Force System to User Mode. Install Factory default Secure Boot key databases.				
Reset To Setup Mode	No	Deleting all variables will reset		
	Yes	the System to Setup Mode.		
Delete all Secure Boot key databases from NVRAM.				
Exported Secure Boot				
variables				
Copy NVRAM content of	of Secure Boot variables	to files in a root folder on a file		
system device.				

Options Summary		
Eproll Efi Image		
Allow the image to run	in Secure Boot mode	
Enroll SHA256 Hash Ce	ntificate of a PE Image in	ato Authorized Signature
Database (db)	intilicate of a r E linage li	no Admonzed Signature
Davice Guard Ready		
Remove 'LIFELC' from	No	Pross (Vos' to romovo (LIEEL C.A.
	Voc	From SB
Dovice Guard ready sy	tom must not list 'Misro	coft LIEEL CN' Cortificato in
Authorized Signature d	latabase(db)	Soft OLITICA Certificate III
Rectore DB defaults		
	Voc	Proce West to Postoro DP defaults
Dectore DR veriable to	factory defaults	Press les lo Restore DB defaults
Secure Bool variable	Size   Keys#   Key Source	Frendli Forstorius Defendito en local
	Update	Enroll Factory Defaults or load
I NO KEY		certificates from a file:
		I.Public key Certificate:
		a) EFI_SIGNATURE_LIST
		b) EFI_CERI_X509 (DER)
		c) EFI_CERT_RSA2048 (bin)
		d) EFI_CERT_SHAXXX
		2.Authenticated UEFI Variable
		3.EFI PE/COFF Image(SHA256)
		Key Source:
		Factory, External, Mixed
Key Exchange keys   0	Update	Enroll Factory Defaults or load
0   No Key	Append	certificates from a file:
		1.Public key Certificate:
		a)EFI_SIGNATURE_LIST
		b)EFI_CERT_X509 (DER)
		c)EFI_CERT_RSA2048 (bin)
		d)EFI_CERT_SHAXXX
		2.Authenticated UEFI Variable
		3.EFI PE/COFF Image(SHA256)
		Key Source:
		Factory, External, Mixed

Options Summary		
Authorized Signatures	Update	Enroll Factory Defaults or load
0   0   No Key	Append	certificates from a file:
		1.Public key Certificate:
		a)EFI_SIGNATURE_LIST
		b)EFI_CERT_X509 (DER)
		c)EFI_CERT_RSA2048 (bin)
		d)EFI_CERT_SHAXXX
		2.Authenticated UEFI Variable
		3.EFI PE/COFF Image(SHA256)
		Key Source:
		Factory, External, Mixed
Forbidden Signatures	Update	Enroll Factory Defaults or load
0   0   No Key	Append	certificates from a file:
		1.Public key Certificate:
		a)EFI_SIGNATURE_LIST
		b)EFI_CERT_X509 (DER)
		c)EFI_CERT_RSA2048 (bin)
		d)EFI_CERT_SHAXXX
		2.Authenticated UEFI Variable
		3.EFI PE/COFF Image(SHA256)
		Key Source:
		Factory, External, Mixed
Authorized	Update	Enroll Factory Defaults or load
TimeStamps  0   0   No	Append	certificates from a file:
Кеу		1.Public key Certificate:
		a)EFI_SIGNATURE_LIST
		b)EFI_CERT_X509 (DER)
		c)EFI_CERT_RSA2048 (bin)
		d)EFI_CERT_SHAXXX
		2.Authenticated UEFI Variable
		3.EFI PE/COFF Image(SHA256)
		Key Source:
		Factory, External, Mixed

Table Continues on Next Page...

Options Summary		
OsRecovery	Update	Enroll Factory Defaults or load
Signatures  0   0   No	Append	certificates from a file:
Кеу		1.Public key Certificate:
		a)EFI_SIGNATURE_LIST
		b)EFI_CERT_X509 (DER)
		c)EFI_CERT_RSA2048 (bin)
		d)EFI_CERT_SHAXXX
		2.Authenticated UEFI Variable
		3.EFI PE/COFF Image(SHA256)
		Key Source:
		Factory, External, Mixed

# 3.7 Setup Submenu: Boot

Aptio Setup Utility – Main Advanced Chipset Security	Copyright (C) 2021 American Boot Save & Exit	Megatrends, Inc.
Boot Configuration		Enable/Disable CSM Support.
Quiet Boot CSM Support Launch PXE ROM Boot mode select	[Enabled] [Enabled] [Do not launch] [UEFI]	
FIXED BOOT ORDER Priorities Boot Option #1 Boot Option #2 Boot Option #3 Boot Option #4	[UEFI Hard Disk] [UEFI NVME] [UEFI CD/DVD] [UEFI USB Device:UEFI: CDDTD UED Elach Device	
Boot Option #5	1100, Partition 1] [UEFI Network]	++: Select Screen ↑↓: Select Item Enter: Select
▶ UEFI USB Drive BBS Priorities		<pre>+/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>

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Options Summary		
Quiet Boot	Disabled	
	Enabled	Optimal Default, Failsafe Default
Enables or disables Qui	et Boot option.	
CSM Support	Enabled	
	Disabled	Optimal Default, Failsafe Default
Enable/Disable CSM Su	pport.	
Launch PXE ROM	Do not launch	Optimal Default, Failsafe Default
	UEFI	
	Legacy	
Controls the execution of UEFI and Legacy Network OpROM.		
Note: Network Stack should be enabled if select UEFI PXE Boot.		
Boot mode select	Legacy	
	UEFI	Optimal Default, Failsafe Default
	Dual	
Select boot mode Legacy/UEFI		

# 3.8 Setup Submenu: Save & Exit

Aptio Setup Utility – Copyright (C) 2019 American Main Advanced Chipset Security Boot <mark>Save &amp; Exit</mark>	Megatrends, Inc.
Save Options	Reset the system after saving the changes.
Save Changes and Reset Discard Changes and Exit	
Default Options Restore Defaults	
	↔: Select Screen t∔: Select Item
	Enter: Select +/−: Change Opt. F1: General Help
	F2: Previous Values F3: Optimized Defaults
	ESC: Exit
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# Chapter 4

Drivers Installation

Drivers for the VPC-5620S can be downloaded from the product page on the AAEON website by following this link:

https://www.aaeon.com/en/p/network-video-recorder-mobile-nvr-vpc-5620s

Download the driver(s) you need and follow the steps below to install them.

#### Step 1 - Install Chipset Drivers

- 1. Open the Chipset folder and run SetupChipset.exe
- 2. Follow the instructions
- 3. Drivers will be installed automatically

#### Step 2 - Install Graphics Driver

- 1. Open the Graphics folder and run igxpin.exe
- 2. Follow the instructions
- 3. Drivers will be installed automatically

#### Step 3 - Install ME & TXE Driver

- 1. Open the ME folder and run MEISetup.exe
- 2. Follow the instructions
- 3. Drivers will be installed automatically

#### Step 4 – Install LAN Drivers

- 1. Open the LAN folder and select your OS
- 2. For Linux, install file from terminal
- 3. For Windows, run PROWinx64\_25.2.exe
- 4. Follow the instructions
- 5. Drivers will be installed automatically

#### Step 5 – Install Audio Driver

- 1. Open the Audio folder and run 0008-64bit\_Win7\_Win8\_Win81\_Win10\_R281.exe
- 2. Follow the instructions
- 3. Drivers will be installed automatically

# Chapter 5

SDK Guide

VPC-5620S

This section details some of the features of the AAEON SDK available for your VPC-5620S system including Gyro, Smart PoE, MCU and CAN AP functions. If you have any questions or need assistance, contact an AAEON representative by visiting our support page.

# 5.2 CAN Bus

# 5.2.1 CAN Bus Utility

This section details how to use the AAEON CAN Bus Utility application.

<b>A</b> 4	AAEON_	CANBUS	-	×
COM Port: 1	✓ 115200 ✓ 0	Connect	Error Count:	Clear
Transmit	Port: 0 🗸	Monitor	Po	rt: 1 v
Baud Rate:	125K ¥ Set	Baud Rate:	125K ¥	Set
Mode:	S 🗸 Set	Mode:	s ∨	Set
RTR:	Disable 👻 Set	RTR:	Disable 🗸	Set
Device ID: 🗸	~ ~ ~			
BYTE0: 0	✓ BYTE4: 0 ✓			
BYTE1: 0	✓ BYTE5: 0 ✓			
BYTE2: 0	✓ BYTE6: 0 ✓			
BYTE3: 0	✓ BYTE7: 0 ✓			
	Send Loop Test		Start	Clear
Mask & Filter	Get Status Get Error	l	oad Default	Save Setting

CAN Bus Utility Screenshot

# Utility Function Description:

A4	AAEON_CANBUS	5 – – ×
COM Port: 5 V 11520	0 ∨ Disconnect	Error Count: 0 Clear
Firmware Version: 20150226A0 Transmit 5. Port:	0 v	5. Port: 1 v
Baud Rate: 6. 125K 🗸	Set Baud Ra	te: <b>6</b> . 125K ∨ Set
Mode: 7. S ~	Set Mode:	7. s ∨ Set
RTR: 8. Disable V	Set RTR:	8. Disable ∨ Set
Device ID: 0 V 0 V 0 V 10. BYTE0: 0 V BYTE4: 0	× <sup>2</sup> × 11.	
BYTE1: 0 V BYTE5: 0	~	
BYTE2: 0 V BYTE6: 0	¥	
BYTE3: 0    BYTE7: 0	~	
12, 13 16, 17, Send 18 Mask & Filter Get Status	Loop Test Get Error	14. 15. 19. Stop 20. Clear Load Default Save Setting

- 1. COM Port number
- 2. COM Port baud rate. This can be set to the following:

115200
57600
38400
19200
9600

- 3. Connect/Disconnect button
- 4. When doing a loop test, if an error occurs, counter will increase by 1. Clear button will reset error count.
- 5. CAN bus port selector: 0 or 1

6. CAN bus baud rate. Press set button to apply changes. Baud rate can be set to:

125K
500K
1M

7. CAN bus mode: Standard or Extend mode. Press set button to apply change.

Mode	ID Range
Standard Mode	0x000~0x7FF
Extend Mode	0x0000000~0x1FFFFFF

8. Enable or disable RTR mode. Press set button to apply change.

If RTR is enabled, a remote frame will be transmitted via the bus. This means that no data bytes are included within this frame. It is necessary to specify the correct data length code which depends on the corresponding data frame with the same identifier coding. If the RTR is not enabled, a data frame will be sent including the number of data bytes as specified by the data length code.

9. CAN bus ID: The identifier is transmitted on the bus first during the arbitration process. The identifier acts as the message name.

- 10. Data Field: Data to be transmitted.
- 11. Received data will be listed here
- 12. Send button, send the data set in Data Field
- 13. Loop Test function: Sends data automatically.
- 14. Receive button: Press to start receiving data.
- 15. Clear receive field
- 16. Mask and Filter; opens Mask and Filter menu (detailed on next page).
- 17. Get status from firmware register
- 18. Get error status from firmware register
- 19. Load Default settings
- 20. Save current settings to firmware register

90

#### Mask and Filter Menu

Aask Euroction		
Mask Settings: ()	Enable ODisable	Apply
000		Port: 1 🗸 🗸
001		
002	ID to be maske	:a:
004	0 ~ 0 ~	0 ~ 7 ~
005		
006	Pemove	Add
007	Ischove	000
		Apply
Filter Settings: 🔿	ID to be filtere	Port: 0 ¥
Filter Settings: 🔿	ID to be filtere	Port: 0 v
ilter Settings: 🔘	ID to be filtere	Port: 0 v d: 0 v 0 v

Mask and Filter functions limit which IDs can be received by receiving port.

Mask Function: Specified ID cannot be received.

Filter Function: Only specified ID can be received.

# 5.2.2 CAN Bus SDK

This section details the command inputs to access various settings and functions of the CAN Bus SDK.

For System Error Codes please refer to the Microsoft support page:

https://msdn.microsoft.com/zh-tw/library/windows/desktop/ms681381.aspx

#### Open an SDK Handle

AAEON\_API HANDLE aaeonCANOpen(BYTE bComNum, BYTE bComRate);

Input	Definition	Variables	Setting
bComNum	COM Port Number		
	COM Port Baud Rate	0x00	115200
		0x01	57600
bComRate		0x02	38400
		0x03	19200
		0x04	9600

Return:

If successful, return a Handle

If failed, return NULL

# Close Handle

# AAEON\_API BOOL aaeonCANClose(HANDLE hCom);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		

Return:

TRUE or FALSE

# Get Firmware Version

# AAEON\_API HRESULT aaeonCANGetFirmwareVersion(HANDLE hCom, TCHAR\*

# sVersion);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		
sVersion	Pointer of parameter		

#### Return:

**S\_OK** if success, otherwise failed

sVersion: string of firmware version

# Set CAN bus Baud Rate

Definition

AAEON\_API HRESULT aaeonCANSetBaudRate(HANDLE hCom, BYTE bPort, BYTE bBaudRate);

Variables

Setting

125K 500K 1M

hCom	A handle opened by aaeonCANOpen		
bPort	CAN bus Port Number	0 or 1	
bBaudRate	CAN bus baud rate	0x00	
		0x01	
		0x02	

#### Return:

Input

**S\_OK** if success, otherwise failed

# Set CAN bus Mode

# AAEON\_API HRESULT aaeonCANSetMode(HANDLE hCom, BYTE bPort, BYTE

# bMode);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		
bPort	CAN bus Port Number	0 or 1	
bMada	CAN bus mode	0x00	Standard Mode
Driode		0x01	Extend Mode

#### Return:

**S\_OK** if success, otherwise failed
## Set RTR Mode

AAEON\_API HRESULT aaeonCANSetRTREnable(HANDLE hCom, BYTE bPort, BOOL bEnable);

Variables

0 or 1

Setting

Input

hCom

bPort bEnable

 $\ensuremath{\textbf{S\_OK}}$  if success, otherwise failed

Definition

A handle opened by

aaeonCANOpen CAN bus Port Number

Turn On or Off

# Set Mask Function Enable

AAEON\_API HRESULT aaeonCANSetMaskEnable(HANDLE hCom, BYTE bPort,

BOOL bEnable);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		
bPort	CAN bus Port Number	0 or 1	
bEnable	Turn On or Off		

#### Return:

# Mask CAN bus ID

AAEON\_API HRESULT aaeonCANSetMask(HANDLE hCom, BYTE bPort, DWORD dwDevID, BYTE bBlock, BOOL bEnable);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		
bPort	CAN bus Port Number	0 or 1	
dwDevID	ID to be masked.ID range depends on CAN bus mode.		
bBlock	Add to which mask block	0~7	
hEnable	Turn On or Off	TRUE	Add masked ID
DEHADLE		FALSE	Delete selected ID

#### Return:

S\_OK if success, otherwise failed

#### Set Filter Function Enable

#### AAEON\_API HRESULT aaeonCANSetFilterEnable(HANDLE hCom, BYTE

bPort, BOOL bEnable);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		
bPort	CAN bus Port Number	0 or 1	
bEnable	Turn On or Off		

#### Return:

#### Filter CAN Bus ID

AAEON\_API HRESULT aaeonCANSetFilter(HANDLE hCom, BYTE bPort, DWORD dwDevID, BYTE bBlock, BOOL bEnable);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		
bPort	CAN bus Port Number	0 or 1	
dwDevID	ID to be masked.ID range depends on CAN bus mode.		
bBlock	Add to which mask block	0~7	
hEnable	Turn On or Off	TRUE	Add masked ID
DEHADLE	ium on or oli	FALSE	Delete selected ID

#### Return:

**S\_OK** if success, otherwise failed

# Get Error Status from Firmware Register

#### AAEON\_API HRESULT aaeonCANGetError(HANDLE hCom, BYTE bPort,

MSG\_T\* inbuf);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		
bPort	CAN bus Port Number	0 or 1	
inbuf	Pointer of parameter		

#### Return:

S\_OK if success, otherwise failed

inbuf: Data of error status

# Get Status from Firmware Register

AAEON\_API HRESULT aaeonCANGetStatus(HANDLE hCom, BYTE bPort, BYTE

bStatPage, char\* caData);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		
bPort	CAN bus Port Number	0 or 1	
bStatPage	Which status page		

#### Return:

S\_OK if success, otherwise failed

inbuf: Data of error status

# Send Data via CAN Bus

# AAEON\_API HRESULT aaeonCANTransmitData(HANDLE hCom, BYTE bPort,

MSG\_T msgData);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		
bPort	CAN bus Port Number	0 or 1	
msgData	Data to be sent		

#### Return:

# Receive Data via CAN Bus

AAEON\_API HRESULT aaeonCANReceiveData(HANDLE hCom, BYTE bPort, MSG\_T\* inbuf);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		
bPort	CAN bus Port Number	0 or 1	
inbuf	Pointer of parameter		

#### Return:

S\_OK if success, otherwise failed

inbuf: Received data

# Save Current Setting to Firmware Register

# AAEON\_API HRESULT aaeonCANSaveSetting(HANDLE hCom);

Input	Definition	Variables	Setting
hCom	A handle opened by aaeonCANOpen		

#### Return:

# Load Default Setting from Firmware Register

# AAEON\_API HRESULT aaeonCANLoadDefault(HANDLE hCom);

Input [	Definition	Variables	Setting
hCom	A handle opened by		

#### Return:

💀 aaeonAccGyroUsb v0.0.2	– 🗆 X
Accelerometer	Gyroscope
<b>a</b> x -0.005	(f) <sub>x</sub> 0.403
Y 0.033	Y 0.123
Z -0.939	Z 0.569
DODR 1.66 kHz (high performance)	GDR 416 Hz (high performance)      ✓
C Full-Scale ±2g	h Full-Scale 250 dps
(d) High Performance e Stop	(i) High Performance (j) Stop

a. Current G values for the X, Y, and Z axes of the accelerometer

b. Output Data Rate setting for accelerometer. Options in the following table:

High Performance Disabled	High Performance Enabled
1.6 Hz (low power only)	12.5 Hz (high performance)
12.5 Hz (low power)	12.5 Hz (high performance)
26 Hz (low power)	26 Hz (high performance)
52 Hz (low power)	52 Hz (high performance)
104 Hz (normal mode)	104 Hz (high performance)
208 Hz (normal mode)	208 Hz (high performance)
416 Hz (high performance)	416 Hz (high performance)
833 Hz (high performance)	833 Hz (high performance)
1.66 kHz (high performance)	1.66 kHz (high performance)
3.33 kHz (high performance)	3.33 kHz (high performance)
6.66 kHz (high performance)	6.66 kHz (high performance)

- c. Accelerometer Full-Scale setting; options are ±2g, ±4g, ±8g, ±16g
- d. Enable/Disable accelerometer High Performance mode.
- e. Start/Stop accelerometer monitor.

- f. Current angular velocity values for the X, Y, and Z axes of the gyroscope measured in degrees per second (dps).
- g. Output Data Rate setting for gyroscope. Options in the following table:

High Performance Disabled	High Performance Enabled
12.5 Hz (low power)	12.5 Hz (high performance)
26 Hz (low power)	26 Hz (high performance)
52 Hz (low power)	52 Hz (high performance)
104 Hz (normal mode)	104 Hz (high performance)
208 Hz (normal mode)	208 Hz (high performance)
416 Hz (high performance)	416 Hz (high performance)
833 Hz (high performance)	833 Hz (high performance)
1.66 kHz (high performance)	1.66 kHz (high performance)
3.33 kHz (high performance)	3.33 kHz (high performance)
6.66 kHz (high performance)	6.66 kHz (high performance)

- h. Gyroscope Full-Scale setting; options are 250, 500, 1000, or 2000 dps.
- i. Enable/Disable gyroscope High Performance mode.
- j. Start/Stop gyroscope monitor.



- 1. Power On Delay Time, default is 5 seconds.
- 2. Power Off Delay Time, default is 1 minute.
- 3. Factory button, click to erase EEPROM
- 4. Reload button, click to reload MCU settings
- 5. Apply button, click to write settings to MCU

## 5.5 Smart PoE Utility

#### 5.5.1 About Smart PoE

AAEON Smart PoE application supports monitoring the current and voltage of each PoE port in parallel, as well as the temperature of the PoE controller (IC TSP23861). AAEON Smart PoE offers advanced thermal protection which cuts source power when the temperature of the PoE controller exceeds 154°C, turning PoE mode to OFF status. AAEON Smart PoE provides users with three monitoring modes: Auto, Semi-Auto, and Manual.

#### Auto

PoE Controller will determine priority to implement Detect, Classification, Power On/Off and Exception Handling.

#### Semi-Auto

PoE Controller will provide Detection and Classification. Power status is controlled by user.

#### Manual

User can force booting power without the controller providing Detection and Classification. User can manually power on/off each port as well as adjust wattage and monitor the PoE controller temperature.

The user can define the power consumption of each PoE port in steps of 6, 11, 19, or 31 Watts under Semi-Auto and Manual mode to protect the device. If power consumption exceeds the settings, the Smart PoE will throttle power to that port.

The VPC-5620S is designed to deliver 60 Watts of power per every four PoE ports. The power budget is a total constraint which cannot be exceeded in the settings. For

example, if the power consumption of Ports 1 and 2 total 50 Watts, the setting for Port 3 cannot be higher than 6 Watts.

# 5.5.2 Smart PoE Utility Description

🖳 AAEON Smart Pol	E USB v0.0.1			-	
Overview 1 Terperature: 5	1.10	2 Input Voltag	је: 52.766 То	tal Wattage: 0	000
Port 1			Port 3		
Current	0.000	mA	Current	0.000	mA
5 Voltage	0.000	V	Voltage	0.000	V
6 <sub>Mode</sub>	Auto ~	8	Mode	Auto ~	
7 Limit(Watt)	19 ~	Apply	Limit(Watt)	19 ~	Apply
Class	Unknown	10	Class	Unknown	
Detect	Open circuit	Scan	Detect	Open circuit	Scan
9 Power Control	ON	OFF	Power Control	ON	OFF
Port 2			Port 4		
Current	0.000	mA	Current	0.000	mA
Voltage	0.000	V	Voltage	0.000	V
Mode	Auto ~	Annh	Mode	Auto ~	Annha
Limit(Watt)	19 ~	Арріу	Limit(Watt)	19 ~	Арріу
Class	Unknown	Coon	Class	Unknown	Casa
Detect	Open circuit	Scan	Detect	Open circuit	Scan
		055			

- Industrial & Mobile NVR
- 1. PoE Controller Temperature
- 2. PoE Adapter Input Voltage
- 3. Total Wattage of the four PoE ports
- 4. Port total current in milliamps
- 5. Port total voltage in Volts
- 6. Port PoE Mode: Auto, Semi-Auto, Manual
- 7. Port Wattage Limit; can be set in Semi-Auto and Manual modes
- 8. Apply settings to PoE Port
- 9. Power On/Off PoE Port
- 10. Scan; rescan to provide classification and detection of connected devices.





1. DIO value. If set to input mode, it will pull high (display bright green). If set to output mode, user can set the value by clicking the square.

2. DIO mode. Click the button to change DIO mode between Input and Output.

	aaeonWatchDo	-	
a	<ul> <li>Second</li> </ul>	⊖ Mi	nute
b	Time 33		`
C	Start	C	ancel
e	Countdo	wn :	31 s

 $\times$ 

d

te

sec

- Select unit of time, either Seconds or Minutes a.
- Time interval for Watchdog Timer b.
- Start Watchdog C.
- Cancel Watchdog d.
- Time left before Watchdog event e.

# Appendix A

I/O Information

	[000000000000000 - 0000000000000CF7] PCI Express Root Complex
	[000000000000020 - 00000000000021] Programmable interrupt controller
	[00000000000024 - 00000000000025] Programmable interrupt controller
	[00000000000028 - 00000000000029] Programmable interrupt controller
	[0000000000002C - 0000000000002D] Programmable interrupt controller
	[0000000000002E - 0000000000002F] Motherboard resources
	[000000000000030 - 00000000000031] Programmable interrupt controller
	[00000000000034 - 00000000000035] Programmable interrupt controller
	[00000000000038 - 00000000000039] Programmable interrupt controller
	[000000000003C - 000000000003D] Programmable interrupt controller
	[000000000000040 - 000000000000043] System timer
	[0000000000004E - 0000000000004F] Motherboard resources
	[000000000000050 - 000000000000053] System timer
	[000000000000061 - 000000000000061] Motherboard resources
1	[00000000000063 - 00000000000063] Motherboard resources
	[00000000000065 - 00000000000065] Motherboard resources
	[00000000000067 - 00000000000067] Motherboard resources
1	[000000000000070 - 0000000000000070] Motherboard resources
	[00000000000080 - 00000000000080] Motherboard resources
	[00000000000092 - 00000000000092] Motherboard resources
	[0000000000000A0 - 00000000000A1] Programmable interrupt controller
	[000000000000A4 - 00000000000A5] Programmable interrupt controller
	[000000000000A8 - 00000000000A9] Programmable interrupt controller
	[000000000000AC - 00000000000AD] Programmable interrupt controller
	[0000000000000B0 - 000000000000B1] Programmable interrupt controller
	[00000000000082 - 0000000000083] Motherboard resources
1	[000000000000B4 - 000000000000B5] Programmable interrupt controller
	[00000000000088 - 00000000000089] Programmable interrupt controller
	[00000000000BC - 0000000000BD] Programmable interrupt controller
<b>P</b>	[0000000000002C0 - 000000000002C7] Communications Port (COM6)
Ţ.	[0000000000002D0 - 000000000002D7] Communications Port (COM5)
Π.	[000000000002E8 - 000000000002EF] Communications Port (COM4)
<b>P</b>	[000000000002F8 - 000000000002FF] Communications Port (COM2)
<b>P</b>	[000000000003E8 - 000000000003EF] Communications Port (COM3)
<b>P</b>	[000000000003F8 - 000000000003FF] Communications Port (COM1)
ļ.	[0000000000004D0 - 000000000004D1] Programmable interrupt controller
	[00000000000680 - 0000000000069F] Motherboard resources
Þ	[00000000000A00 - 0000000000A0F] Motherboard resources
Þ	[00000000000A10 - 00000000000A1F] Motherboard resources
	[00000000000A20 - 0000000000A2F] Motherboard resources
	[000000000000000 - 00000000000000000000

-				
	[000000000000D00	- 0000000000FFFF]	PCI Express Root Complex	
	[00000000000164E	- 00000000000164F]	Motherboard resources	
	[00000000001800	- 0000000000018FE]	Motherboard resources	
	[00000000001854	- 000000000001857]	Motherboard resources	
	[000000000002000	- 0000000000020FE]	Motherboard resources	
	[00000000003000	- 00000000003FFF]	Intel(R) PCI Express Root Port	#10 - 9DB1
	[000000000004000	- 000000000004FFF]	Intel(R) PCI Express Root Port	#8 - 9DBF
	[000000000005000	- 000000000005FFF]	Intel(R) PCI Express Root Port	#7 - 9DBE
	[000000000006000	- 000000000006FFF]	Intel(R) PCI Express Root Port	#6 - 9DBD
	[000000000007000	- 000000000007FFF]	Intel(R) PCI Express Root Port	#5 - 9DBC
	[000000000007000	- 000000000007FFF]	PCI Express Downstream Swite	ch Port
	[000000000007000	- 000000000007FFF]	PCI Express Upstream Switch	Port
-185	[00000000008000	- 0000000000803F]	Intel(R) UHD Graphics 620	
	[00000000008060	- 00000000000807F]	Standard SATA AHCI Controll	er
	[00000000008080	- 00000000008083]	Standard SATA AHCI Controll	er
	[00000000008090	- 000000000008097]	Standard SATA AHCI Controlle	er
	[0000000000EFA0	- 00000000000EFBF]	Intel(R) SMBus - 9DA3	

# A.2 IRQ Mapping Chart

🏣 (ISA) 0x00000000 (00)	System timer
(ISA) 0x00000003 (03)	Communications Port (COM2)
🛱 (ISA) 0x0000004 (04)	Communications Port (COM1)
🛱 (ISA) 0x000000B (11)	Communications Port (COM3)
(ISA) 0x000000B (11)	Communications Port (COM4)
(ISA) 0x000000B (11)	Communications Port (COM5)
(ISA) 0x000000B (11)	Communications Port (COM6)
ኪ (ISA) 0x000000E (14)	Intel(R) Serial IO GPIO Host Controller - INT34BB
ኪ (ISA) 0x0000036 (54)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x0000037 (55)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x0000038 (56)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x0000039 (57)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000003A (58)	Microsoft ACPI-Compliant System
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ኪ (ISA) 0x000003D (61)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000003E (62)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000003F (63)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000040 (64)	Microsoft ACPI-Compliant System
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ኪ (ISA) 0x0000043 (67)	Microsoft ACPI-Compliant System
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ኪ (ISA) 0x0000045 (69)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000046 (70)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000047 (71)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000048 (72)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x00000049 (73)	Microsoft ACPI-Compliant System
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ኪ (ISA) 0x000004B (75)	Microsoft ACPI-Compliant System
ኪ (ISA) 0x000004C (76)	Microsoft ACPI-Compliant System
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	(ISA) 0x000001FF (511)	Microsoft ACPI-Compliant System
	(PCI) 0x00000010 (16)	High Definition Audio Controller
	(PCI) 0x00000010 (16)	Intel SD Host Controller
	(PCI) 0xFFFFFD6 (-42)	Intel(R) Management Engine Interface
	(PCI) 0xFFFFFD7 (-41)	Intel(R) I211 Gigabit Network Connection #2
	(PCI) 0xFFFFFD8 (-40)	Intel(R) I211 Gigabit Network Connection #2
	(PCI) 0xFFFFFFD9 (-39)	Intel(R) I211 Gigabit Network Connection #2
	(PCI) 0xFFFFFFDA (-38)	Intel(R) I211 Gigabit Network Connection #2
<b>P</b>	(PCI) 0xFFFFFDB (-37)	Intel(R) I211 Gigabit Network Connection #2
	(PCI) 0xFFFFFFDC (-36)	Intel(R) I211 Gigabit Network Connection #2
<b>P</b>	(PCI) 0xFFFFFDD (-35)	Intel(R) I211 Gigabit Network Connection #3
P	(PCI) 0xFFFFFDE (-34)	Intel(R) I211 Gigabit Network Connection #3
P	(PCI) 0xFFFFFDF (-33)	Intel(R) I211 Gigabit Network Connection #3
P	(PCI) 0xFFFFFE0 (-32)	Intel(R) I211 Gigabit Network Connection #3
P	(PCI) 0xFFFFFE1 (-31)	Intel(R) I211 Gigabit Network Connection #3
P	(PCI) 0xFFFFFE2 (-30)	Intel(R) I211 Gigabit Network Connection #3
P	(PCI) 0xFFFFFE3 (-29)	Intel(R) I211 Gigabit Network Connection #5
P	(PCI) 0xFFFFFFE4 (-28)	Intel(R) I211 Gigabit Network Connection #5
	(PCI) 0xFFFFFE5 (-27)	Intel(R) I211 Gigabit Network Connection #5
P	(PCI) 0xFFFFFE6 (-26)	Intel(R) I211 Gigabit Network Connection #5
Ţ	(PCI) 0xFFFFFFF7 (-25)	Intel(R) I211 Gigabit Network Connection #5
P	(PCI) 0xFFFFFE8 (-24)	Intel(R) I211 Gigabit Network Connection #5
P	(PCI) 0xFFFFFE9 (-23)	Intel(R) I211 Gigabit Network Connection
<b>P</b>	(PCI) 0xFFFFFFEA (-22)	Intel(R) I211 Gigabit Network Connection
Ţ	(PCI) 0xFFFFFEB (-21)	Intel(R) I211 Gigabit Network Connection
Ţ	(PCI) 0xFFFFFFEC (-20)	Intel(R) I211 Gigabit Network Connection
Ţ	(PCI) 0xFFFFFED (-19)	Intel(R) I211 Gigabit Network Connection
-	(PCI) 0xFFFFFFEE (-18)	Intel(R) I211 Gigabit Network Connection
-	(PCI) 0xFFFFFFFF (-17)	Intel(R) I211 Gigabit Network Connection #4
-	(PCI) 0xFFFFFFF0 (-16)	Intel(R) I211 Gigabit Network Connection #4
-	(PCI) 0xFFFFFFF1 (-15)	Intel(R) I211 Gigabit Network Connection #4
-	(PCI) 0xFFFFFFF2 (-14)	Intel(R) I211 Gigabit Network Connection #4
-	(PCI) 0xFFFFFFF3 (-13)	Intel(R) I211 Gigabit Network Connection #4
-	(PCI) 0xFFFFFFF4 (-12)	Intel(R) I211 Gigabit Network Connection #4
Ψ.	(PCI) 0xFFFFFFF5 (-11)	Intel(R) USB 3.1 eXtensible Host Controller - 1.10 (Microsoft)
	(PCI) 0xFFFFFFF6 (-10)	Intel(R) UHD Graphics 620
7	(PCI) 0xFFFFFFF7 (-9)	Standard SATA AHCI Controller
	(PCI) 0xFFFFFFF8 (-8)	Intel(R) PCI Express Root Port #9 - 9DB0

# (PCI) 0xFFFFFF8 (-8) Intel(R) PCI Express Root Port #9 - 9DB0 (PCI) 0xFFFFFF9 (-7) Intel(R) PCI Express Root Port #1 - 9DB8 (PCI) 0xFFFFFFFA (-6) Intel(R) PCI Express Root Port #8 - 9DBF (PCI) 0xFFFFFFFB (-5) Intel(R) PCI Express Root Port #7 - 9DBE (PCI) 0xFFFFFFFC (-4) Intel(R) PCI Express Root Port #6 - 9DBD (PCI) 0xFFFFFFFC (-3) Intel(R) PCI Express Root Port #5 - 9DBC

to (PCI) 0xFFFFFFE (-2) Intel(R) PCI Express Root Port #10 - 9DB1

	[00000000000A0000 - 0000000000BFFFF] PCI Express Root Complex
	[0000000040000000 - 00000000403FFFFF] Motherboard resources
181	[00000000000000 - 00000009FFFFFF] Intel(R) UHD Graphics 620
	[00000000000000 - 00000000DFFFFFFF] PCI Express Root Complex
-	[00000000A0000000 - 0000000A0FFFFF] Intel(R) UHD Graphics 620
	[00000000A1100000 - 00000000A11FFFFF] Intel(R) PCI Express Root Port #10 - 9DB1
÷	[00000000A11DC000 - 00000000A11DFFFF] Intel(R) I211 Gigabit Network Connection #5
Ţ	[00000000A11E0000 - 00000000A11FFFFF] Intel(R) I211 Gigabit Network Connection #5
	[00000000A1200000 - 00000000A12FFFFF] Intel(R) PCI Express Root Port #8 - 9DBF
P	[00000000A12DC000 - 00000000A12DFFFF] Intel(R) I211 Gigabit Network Connection #3
Ţ	[00000000A12E0000 - 00000000A12FFFFF] Intel(R) I211 Gigabit Network Connection #3
	[00000000A1300000 - 00000000A13FFFFF] Intel(R) PCI Express Root Port #7 - 9DBE
Ţ	[00000000A13DC000 - 00000000A13DFFFF] Intel(R) I211 Gigabit Network Connection #2
Ţ	[00000000A13E0000 - 00000000A13FFFFF] Intel(R) I211 Gigabit Network Connection #2
<b>P</b>	[00000000A1400000 - 00000000A141FFFF] Intel(R) I211 Gigabit Network Connection
	[0000000A1400000 - 0000000A14FFFFF] Intel(R) PCI Express Root Port #6 - 9DBD
-	[00000000A1420000 - 00000000A1423FFF] Intel(R) I211 Gigabit Network Connection
-	[0000000A1500000 - 0000000A151FFFF] Intel(R) I211 Gigabit Network Connection #4
	[00000000A1500000 - 00000000A15FFFFF] Intel(R) PCI Express Root Port #5 - 9DBC
	[0000000A1500000 - 0000000A15FFFFF] PCI Express Downstream Switch Port
	[0000000A1500000 - 0000000A15FFFFF] PCI Express Upstream Switch Port
Ţ	[0000000A1520000 - 0000000A1523FFF] Intel(R) l211 Gigabit Network Connection #4
Ψ.	[00000000A1600000 - 0000000A160FFF] Intel(R) USB 3.1 eXtensible Host Controller - 1.10 (Microsoft)
7	[0000000A161C000 - 00000000A161DFFF] Standard SATA AHCI Controller
	[0000000A1620000 - 0000000A16200FF] Intel(R) SMBus - 9DA3
	[0000000A1621000 - 0000000A1621FFF] Intel SD Host Controller
	[0000000A1622000 - 0000000A16227FF] Standard SATA AHCI Controller
7	[0000000A1623000 - 0000000A16230FF] Standard SATA AHCI Controller
	[0000000E0000000 - 0000000EFFFFFF] Motherboard resources
	[0000000FC800000 - 0000000FE7FFFFF] PCI Express Root Complex
	[0000000FD000000 - 0000000FD69FFFF] Motherboard resources
	[0000000FDbA0000 - 0000000FDbAFFF] Intel(R) Serial IO GPIO Host Controller - INT34BB
	[0000000FD6B0000 - 0000000FD6CFFFF] Motherboard resources
	[0000000FD6D00000 - 0000000FD6DFFFF] Intel(R) Serial IO GPIO Host Controller - INT34BB
	[0000000FD6E0000 - 0000000FD6EFFFF] Intel(K) Serial IO GPIO Host Controller - INT34BB
-	[0000000FDbF0000 - 0000000FDFFFFF] Motherboard resources
	[UUUUUUUFEUUUUUU - UUUUUUUUFEUTEFF] Motherboard resources
	[UUUUUUUFEU IUUUU - UUUUUUUUFEU IUFFF] Intel(K) SPI (flash) Controller - 9DA4
	[UUUUUUUFEUFBUUU - UUUUUUUFEUFBFFF] Intel(K) Management Engine Interface
	[UUUUUUUFEUFCUUU - UUUUUUUUFEUFFFF] High Definition Audio Controller
	10000000FE100000 - 0000000FE1FFFFF1 High Definition Audio Controller

[0000000	0FE100000	- 0000000	FE1FFFFF]	High Definition Audio Controller
[0000000	0FE200000	- 0000000	FE7FFFFF]	Motherboard resources
[0000000	0FED00000	- 0000000	FED003FF]	High precision event timer
[0000000	0FED10000	- 0000000	FED17FFF]	Motherboard resources
[0000000	0FED18000	- 0000000	FED18FFF]	Motherboard resources
[0000000	0FED19000	- 0000000	FED19FFF]	Motherboard resources
[0000000	0FED20000	- 0000000	FED3FFFF]	Motherboard resources
[0000000	0FED45000	- 0000000	FED8FFFF]	Motherboard resources
[0000000	0FED90000	- 0000000	FED93FFF]	Motherboard resources
[0000000]	0FEE00000	- 0000000	FEEFFFFF]	Motherboard resources
[0000000]	0FF000000	- 00000000	FFFFFFFF]	Motherboard resources

# Appendix B

Watchdog Timer Programming

# B.1 Watchdog Timer Initial Program

Table 1 : SuperIO relative register table			
Default Value		Note	
Index	<b>0x2E</b> (Note1)	SIO MB PnP Mode Index Register 0x2E or 0x4E	
Data 0x2F(Note2)		SIO MB PnP Mode Data Register 0x2F or 0x4F	

Table 2 : Watchdog relative register table					
	LDN	Register	BitNum	Value	Note
Timer Counter	0x07(Note3)	0x73(Note4)		(Note24)	Time of watchdog timer (0~255) This register is byte access
Counting Unit	0x07(Note5)	0x72(Note6)	7(Note7)	1(Note8)	Select time unit. 1: second 0: minute
Watchdog Enable (KRST)	0x07(Note9)	0x72(Note10)	6(Note11)	1(Note12)	0: Disable 1: Enable
Timeout Status	0x07(Note13)	0x71(Note14)	0(Note15)	1	1: Clear timeout status
Output Mode	0x07(Note16)	0xF5(Note17)	4(Note18)	1(Note19)	Select WDTRST# output mode 0: level 1: pulse
WDTRST output	0x07(Note20)	0xFA(Note21)	0(Note22)	1(Note23)	Enable/Disable time out output via WDTRST# 0: Disable 1: Enable

#### 

#### // SuperIO relative definition (Please reference to Table 1)

 #define byte
 SIOIndex
 //This parameter is represented from Note1

 #define byte
 SIOData
 //This parameter is represented from Note2

 #define
 void
 IOWriteByte(byte IOPort, byte Value);

 #define
 byte
 IOReadByte(byte IOPort);

// Watch Dog relative definition (Please reference to Table 2)

#define byte TimerLDN //This parameter is represented from Note3 #define byte TimerReg //This parameter is represented from Note4 #define byte TimerVal // This parameter is represented from Note24 #define byte UnitLDN //This parameter is represented from Note5 **#define byte** UnitReg //This parameter is represented from **Note6** #define byte UnitBit //This parameter is represented from Note7 #define byte UnitVal //This parameter is represented from Note8 #define byte EnableLDN //This parameter is represented from Note9 **#define byte** EnableReg //This parameter is represented from **Note10** #define byte EnableBit //This parameter is represented from Note11 #define byte EnableVal //This parameter is represented from Note12 #define byte StatusLDN // This parameter is represented from Note13 #define byte StatusReg // This parameter is represented from Note14 #define byte StatusBit // This parameter is represented from Note15 #define byte ModeLDN // This parameter is represented from Note16 #define byte ModeReg // This parameter is represented from Note17 #define byte ModeBit // This parameter is represented from Note18 #define byte ModeVal // This parameter is represented from Note19 #define byte WDTRstLDN // This parameter is represented from Note20 #define byte WDTRstReg // This parameter is represented from Note21 **#define byte** WDTRstBit // This parameter is represented from **Note22** #define byte WDTRstVal // This parameter is represented from Note23 

#### 

#### VOID Main(){

- // Procedure : AaeonWDTConfig
- // (byte)Timer : Time of WDT timer.(0x00~0xFF)
- // (boolean)Unit : Select time unit(0: second, 1: minute).

#### AaeonWDTConfig();

- // Procedure : AaeonWDTEnable
- // This procudure will enable the WDT counting.

#### AaeonWDTEnable();

}

}

# // Procedure : AaeonWDTEnable VOID AaeonWDTEnable (){

WDTEnableDisable(EnableLDN, EnableReg, EnableBit, 1);

// Procedure : AaeonWDTConfig

#### VOID AaeonWDTConfig (){ // Disable WDT counting WDTEnableDisable(EnableLDN, EnableReg, EnableBit, 0); // Clear Watchdog Timeout Status WDTClearTimeoutStatus(); // WDT relative parameter setting WDTParameterSetting();

}

VOID WDTEnableDisable(byte LDN, byte Register, byte BitNum, byte Value){ SIOBitSet(LDN, Register, BitNum, Value);

# }

#### VOID WDTParameterSetting(){

// Watchdog Timer counter setting

SIOByteSet(TimerLDN, TimerReg, TimerVal);

// WDT counting unit setting

SIOBitSet(UnitLDN, UnitReg, UnitBit, UnitVal);

// WDT output mode setting, level / pulse

SIOBitSet(ModeLDN, ModeReg, ModeBit, ModeVal);

// Watchdog timeout output via WDTRST#

SIOBitSet(WDTRstLDN, WDTRstReg, WDTRstBit, WDTRstVal);

#### }

#### VOID WDTClearTimeoutStatus(){

SIOBitSet(StatusLDN, StatusReg, StatusBit, 1);
	IOWriteByte(SIOIndex, 0x87);
ı	IOWriteByte(SIOIndex, 0x87);
ſ	
VOID	SIOExitMBPnPMode(){
	IOWriteByte(SIOIndex, 0xAA);
}	
VOID	SIOSelectI DN/byte I DN)/
VOID	IOWriteByte(SIOIndex, 0x07): // SIO LDN Register Offset = 0x07
	IOWriteByte(SIOData, LDN);
}	
VOID	SIOBitSet(byte LDN, byte Register, byte BitNum, byte Value){
	Byte TmpValue;
	SIQEnterMBPnPMode():
	SIOSelectLDN(byte LDN);
	IOWriteByte(SIOIndex, Register);
	TmpValue = IOReadByte(SIOData);
	TmpValue &= ~(1 << BitNum);
	TmpValue  = (Value << BitNum);
	IOWriteByte(SIOData, TmpValue);
	SIOExitMBPnPMode();
}	
VOID	SIOByteSet(byte LDN, byte Register, byte Value){
	SIOEnter/MBPnPMode();
	SIOSelectLDN(LDN);
	IOWriteByte(SIOIndex, Register);
	IOWriteByte(SIOData, Value);
	SIOExitMBPnPMode();
}	
*****	***************************************

VOID SIOEnterMBPnPMode(){

## Appendix C

Electrical Specifications for I/O Ports

## C.1 Digital I/O Register

Table 1 : SuperIO relative register table		
	Default Value	Note
Index	0x2E(Note1)	SIO MB PnP Mode Index Register
		0x2E or 0x4E
Data	0x2F(Note2)	SIO MB PnP Mode Data Register
		0x2F or 0x4F

Table 2 : Digital Input relative register table					
	LDN	Register	BitNum	Value	Note
DIO-1 Pin Status	<b>0x06</b> (Note3)	0x8A(Note4)	<b>0</b> (Note5)		GPIO80
DIO-2 Pin Status	<b>0x06</b> (Note6)	<b>0x8A</b> (Note7)	<b>1</b> (Note8)		GPIO81
DIO-3 Pin Status	<b>0x06</b> (Note9)	<b>0x8A</b> (Note10)	<b>3</b> (Note11)		GPIO83
DIO-4 Pin Status	<b>0x06</b> (Note12)	<b>0x8A</b> (Note13)	<b>2</b> (Note14)		GPIO82
DIO-5 Pin Status	<b>0x06</b> (Note15)	<b>0x8A</b> (Note16)	<b>5</b> (Note17)		GPIO85
DIO-6 Pin Status	<b>0x06</b> (Note18)	<b>0x8A</b> (Note19)	<b>4</b> (Note20)		GPIO84
DIO-7 Pin Status	<b>0x06</b> (Note21)	<b>0x8A</b> (Note22)	<b>6</b> (Note23)		GPIO86
DIO-8 Pin Status	<b>0x06</b> (Note24)	0x8A (Note25)	<b>7</b> (Note26)		GPIO87

Table 3 : Digital Output relative register table					
	LDN	Register	BitNum	Value	Note
DIO-1 Output		<b>0</b>	<b>0</b> (Nioto20)	(Nioto20)	
Data	UXUD(INOLE27)	<b>UX89</b> (NOLE28)	<b>U</b> (INOLE29)	(NOLESU)	GPIOOU
DIO-2 Output	<b>0x06</b> (Note31)	<b>0</b>	<b>1</b> (Nioto22)	(Noto24)	
Data		<b>0x89</b> (INOTE32)	I(NOLE33)	(NOLE34)	GPIU81
DIO-3 Output	<b>0x06</b> (Note35)	<b>0</b>	<b>2</b> (Nloto27)	(Nioto20)	
Data		<b>0x89</b> (INOte36)	<b>3</b> (NOLE37)	(NOLE38)	GPIO63
DIO-4 Output	<b>0x06</b> (Note39)	<b>0x89</b> (Note40)	<b>2</b> (Note41)	(Note42)	GPIO82
Data					
DIO-5 Output	<b>0x06</b> (Note43)	0x89	E(Noto15)	(Noto 16)	
Data		(Note44)	<b>3</b> (1101843)	(NOLE46)	GPIU03
DIO-6 Output	0.00(b + 10)	<b>0</b>	$\mathbf{I}(Noto 10)$	(Nioto50)	
Data	0000(1101247)	<b>UX89</b> (INOLE46)	<b>4</b> (NOLE49)	(NOLESU)	GF1004
DIO-7 Output		<b>0</b>	<b>6</b> (NiotoE2)	(NiotoE 4)	
Data	UXUO(INOTESI)	<b>0x09</b> (NOLESZ)	0(1101835)	(NOLE34)	GPIOOD
DIO-8 Output	<b>0x06</b> (Note55)	0.490 (Noto56)	<b>7</b> (Noto57)	(Nioto59)	
Data		0,009 (1401830)	(INULEST)	(1101830)	GriOoz

### C.2 Digital I/O Sample Program

#### // SuperIO relative definition (Please reference to Table 1) #define byte SIOIndex //This parameter is represented from Note1 #define byte SIOData //This parameter is represented from Note2 #define void IOWriteByte(byte IOPort, byte Value); #define byte IOReadByte(byte IOPort); // Digital Input Status relative definition (Please reference to Table 2) #define byte DInput1LDN // This parameter is represented from Note3 #define byte DInput1Reg // This parameter is represented from Note4 #define byte DInput1Bit // This parameter is represented from **Note5** #define bvte DInput2LDN // This parameter is represented from **Note6** #define byte DInput2Reg // This parameter is represented from Note7 #define bvte DInput2Bit // This parameter is represented from **Note8** #define byte DInput3LDN // This parameter is represented from Note9 #define byte DInput3Reg // This parameter is represented from Note10 #define byte DInput3Bit // This parameter is represented from Note11 #define byte DInput4LDN // This parameter is represented from Note12 #define byte DInput4Reg // This parameter is represented from Note13 #define byte DInput4Bit // This parameter is represented from Note14 #define byte DInput5LDN // This parameter is represented from Note15 DInput5Reg // This parameter is represented from Note16 #define byte #define byte DInput5Bit // This parameter is represented from Note17 #define byte DInput6LDN // This parameter is represented from Note18 #define byte DInput6Reg // This parameter is represented from Note19 #define byte DInput6Bit // This parameter is represented from Note20 #define byte DInput7LDN // This parameter is represented from Note21 #define byte DInput7Reg // This parameter is represented from Note22 #define byte DInput7Bit // This parameter is represented from Note23 #define byte DInput8LDN // This parameter is represented from Note24 #define byte DInput8Reg // This parameter is represented from Note25 #define byte DInput8Bit // This parameter is represented from Note26

#### // Digital Output control relative definition (Please reference to Table 3)

#define byte DOutput1LDN // This parameter is represented from Note27 #define byte DOutput1Reg // This parameter is represented from Note28 #define byte DOutput1Bit // This parameter is represented from **Note29** #define byte DOutput1Val // This parameter is represented from **Note30** #define byte DOutput2LDN // This parameter is represented from Note31 #define byte DOutput2Reg // This parameter is represented from **Note32** #define byte DOutput2Bit // This parameter is represented from Note33 #define byte DOutput2Val // This parameter is represented from Note34 #define byte DOutput3LDN // This parameter is represented from **Note35** DOutput3Reg // This parameter is represented from **Note36** #define byte #define byte DOutput3Bit // This parameter is represented from Note37 DOutput3Val // This parameter is represented from Note38 #define byte DOutput4LDN // This parameter is represented from Note39 #define byte DOutput4Reg // This parameter is represented from Note40 #define byte #define byte DOutput4Bit // This parameter is represented from **Note41** #define byte DOutput4Val // This parameter is represented from **Note42** #define byte DOutput5LDN // This parameter is represented from Note43 DOutput5Reg // This parameter is represented from Note44 #define byte #define byte DOutput5Bit // This parameter is represented from **Note45** #define byte DOutput5Val // This parameter is represented from Note46 #define bvte DOutput6LDN // This parameter is represented from Note47 #define byte DOutput6Reg // This parameter is represented from Note48 DOutput6Bit // This parameter is represented from **Note49** #define byte #define byte DOutput6Val // This parameter is represented from Note50 #define bvte DOutput7LDN // This parameter is represented from Note51 **#define byte** DOutput7Reg // This parameter is represented from **Note52** #define byte DOutput7Bit // This parameter is represented from Note53 #define byte DOutput7Val // This parameter is represented from Note54 #define byte DOutput8LDN // This parameter is represented from Note55 #define byte DOutput8Reg // This parameter is represented from Note56 #define byte DOutput8Bit // This parameter is represented from Note57 #define byte DOutput8Val // This parameter is represented from Note58 \*\*\*\*\*

# DC-22200

// Input : // Ex

VOID Main(){

// Input :

// Exam // Output : // Input

//

//

Boolean PinStatus;

// Procedure : AaeonReadPinStatus

// Procedure : AaeonSetOutputLevel

InputStatus :

Example, Read Digital I/O Pin 3 status

Example, Set Digital I/O Pin 6 level

0: Digital I/O Pin level is low

1: Digital I/O Pin level is High

PinStatus = AaeonReadPinStatus(DInput3LDN, DInput3Reg, DInput3Bit);

AaeonSetOutputLevel(DOutput6LDN, DOutput6Reg, DOutput6Bit, DOutput6Val);

}

#### VOID AaeonSetOutputLevel(byte LDN, byte Register, byte BitNum, byte Value){ ConfigToOutputMode(LDN, Register, BitNum); SIOBitSet(LDN, Register, BitNum, Value);

}	
VOID	SIOExitMBPnPMode(){
	IOWriteByte(SIOIndex, 0xAA);
}	
νοιρ	SIOSelectI DN(byte I DN){
10.5	IOWriteByte(SIOIndex, 0x07): // SIO LDN Register Offset = 0x07
	IOWriteByte(SIOData, LDN);
}	
VOID	SIOBitSet(byte LDN, byte Register, byte BitNum, byte Value){
	Byte TmpValue;
	SIOEnterwiBPhPiviode();
	IOW/riteByte(SIQIndex Register)
	TmnValue = IOReadByte(SIOData)
	TmpValue $= \sim (1 << BitNum)$ :
	TmpValue  = (Value << BitNum);
	IOWriteByte(SIOData, TmpValue);
	SIOExitMBPnPMode();
}	
VOID	SIOByteSet(byte LDN, byte Register, byte Value){
	SIOEnterMBPnPMode();
	SIOSelectLDN(LDN);
	IOW/riteByte(SIOIndex, Register);
	SIGExitMBPnPMode()
}	
, *****	***************************************

VOID **SIOEnter/MBPnPMode()**{ IOWriteByte(SIOIndex, 0x87); IOWriteByte(SIOIndex, 0x87);

#### 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 ConfigToOutputMode(byte LDN, byte Register, byte BitNum){

Byte TmpValue, OutputEnableReg;

OutputEnableReg = Register-1; SIOEnter/MBPnPMode(); SIOSelectLDN(LDN); IOWriteByte(SIOIndex, OutputEnableReg); TmpValue = IOReadByte(SIOData); TmpValue |= (1 << BitNum); IOWriteByte(SIOData, OutputEnableReg); SIOExit/MBPnPMode();

}

}