

# User's Manual

Ver 1.3

Intel® Q370 Micro-ATX Motherboard supports 14nm Intel® Core™ i7/i5/i3

8<sup>th</sup> and 9<sup>th</sup> generation Desktop Processors (Coffee Lake / Coffee Lake Refresh Platform)



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# **Safety Information**

### **Electrical safety**

- To prevent electrical shock hazard, disconnect the power cable from the electrical outlet before relocating the system.
- When adding or removing devices to or from the system, ensure that the power cables for the devices are unplugged before the signal cables are connected. If possible, disconnect all power cables from the existing system before you add a device.
- Before connecting or removing signal cables from the motherboard, ensure that all power cables are unplugged.
- Seek professional assistance before using an adapter or extension cord. These devices could interrupt the grounding circuit.
- Make sure that your power supply is set to the correct voltage in your area. If you are not sure about the voltage of the electrical outlet you are using, contact your local power company.
- If the power supply is broken, do not try to fix it by yourself. Contact a qualified service technician or your retailer.

### **Operation safety**

- Before installing the motherboard and adding devices on it, carefully read all the manuals that came with the package.
- Before using the product, make sure all cables are correctly connected and the power cables are not damaged. If you detect any damage, contact your dealer immediately.
- To avoid short circuits, keep paper clips, screws, and staples away from connectors, slots, sockets and circuitry.
- Avoid dust, humidity, and temperature extremes. Do not place the product in any area where it may become wet.
- Place the product on a stable surface.
- If you encounter technical problems with the product, contact a qualified service technician or your retailer.



The symbol of the crossed out wheeled bin indicates that the product

(electrical and electronic equipment) should not be placed in municipal waste. Check local regulations for disposal of electronic products.

### **Safety Declaration**

This device complies with the requirements in Part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

## About this guide

This user guide contains the information you need when installing and configuring the motherboard.

### How this guide is organized

This manual contains the following parts:

• Chapter 1: Product introduction

This chapter describes the features of the motherboard and the new technology it supports. This chapter also lists the hardware setup procedures that you have to perform when installing system components. It includes description of the jumpers and connectors on the motherboard.

#### • Chapter 2: BIOS setup

This chapter tells how to change system settings through the BIOS Setup menus. Detailed descriptions of the BIOS parameters are also provided.

#### Where to find more information

Refer to the following sources for additional information and for product and software updates.

#### 1. Motherboard User's Manual and Device Drivers

Motherboard User's Manual and Device Drivers can be downloaded at BCM Advanced Research website: <u>http://www.bcmcom.com/bcm\_support\_drivers.htm</u>

#### 2. Technical Support

If a problem arises with your system and no solution can be obtained from the user's manual, please contact your place of purchase or local distributor. Alternatively, please try the following help resources for further guidance. Visit the BCM Advanced Research website: <u>http://www.BCMCOM.com</u>

### Conventions used in this guide

To make sure that you perform certain tasks properly, take note of the following symbols used throughout this manual.





DANGER/WARNING: Information to prevent injury to yourself when trying to complete a task.

CAUTION: Information to prevent damage to the components when trying to complete a task.



IMPORTANT: Instructions that you MUST follow to complete a task.



NOTE: Tips and additional information to help you complete a task.

# **Packing List**

Before you begin installing your single board, please make sure that the following materials have been shipped:

- 1 x RX370Q Micro-ATX Main board
- 1 x I/O Shield



If any of the above items is damaged or missing, please contact your retailer.

# **Revision History**

Revision	Revision History	Date
V1.0	First release version	12/27/2018
V1.1	CPU support Iccmax :140A	01/14/2019
V1.2	Supporting 9 <sup>th</sup> CPUs Supporting DCH drivers for Windows 10	07/26/2019

# **RX370Q Motherboard Features**

This chapter briefly describes the features of Board RX370Q. The Table summarizes the major features of this board as below:

# **Specifications Summary**

General SPEC				
	Intel® Coffee Lake Processor			
Processor	Supports 8 <sup>th</sup> /9 <sup>th</sup> LGA1151 2C/4C/6C Core i, Pentium, Celeron Up to 95W TDP			
	Supports 9th LGA1151 8C Core i Up to 35W TDP			
	Note: CPU Iccmax <= 138A			
Memory	4 x 30μ Gold Plated DIMM Up to 64GB Dual Channel DDR4 2400Mhz /2666Mhz			
PCI Express	1 x PCI Express x 16			
Graphic	Intel® Integrated Graphic (CPU Dependent)			
Platform Controller Hub	Intel® Q370			
HDMI	1 x HDMI			
DisplayPort	2 x DisplayPort			
LVDS/eDP	LVDS converter PS8625 (eDP Optional)			
SATA	6 x SATA III Supports 6.0 Gb/s			
RAID	Supports SATA RAID 0, 1, 5 and 10			
Audio	Intel® HD Audio			
iAMT	Intel® iAMT v.12			
PCI Express	24 x PCIex1 Channel Available			
ТРМ	Infineon® SLB 9665 (FW version 5.63)			
Туре	TPM 2.0 Controller			
Super I/O Controller	Nuvoton® NCT6116			
Sorial Ports	1 x RS232/422/485 port (with 5V/12V/RI)			
Senai Pons	5 x RS-232 (with 5V/12V/RI)			
Watch Dog Timer	1 ~ 255 sec timer			
HW Monitor	Yes			
USB 3.1 Hub Gen1	Genesys Logic® GL3523			
Туре	4 Ports USB 3.1 Gen 1 Hub			
Audio	Realtek® ALC892			
Туре	HD Audio Codec			

Amplifier	3W Per Channel Amplifier			
LAN	Intel® i219-LM PHY LAN Controller			
Туре	1 x Gigabit LAN			
LAN	Intel® i211-AT PCIe LAN Controller (Co-Lay Intel® i210-AT)			
Туре	1 x Gigabit LAN			
BIOS	AMI® UEFI BIOS			
Туре	256Mb SPI BIOS			
Expansion Slot				
	1 x PCIe x 16 Slot (Slot One) (30µ Gold Plated) (Black)			
PCI-E	2 x PCIe x 4 Slot (x16 Physical Slot) (Slot Three & Four) (30µ Gold Plated) (Yellow)			
	1 x PCIe x 1 Slot Open End (Slot Two) (30µ Gold Plated)			
M.2	1 x M.2 Type M 2242, 2260, 2280 Slot (with USB, PCIe x4 & SATA III) (30 $\mu$ Gold Plated)			
	1 x M.2 Type A/E 2232 (with USB & PCIe x2) (30µ Gold Plated)			
Onboard I/O Headers				
SATA	5 x SATA III Vertical Connectors (Red) (30µ Gold Plated)			
SATA	1 x SATA III Vertical Connector (Black, shared with M.2)			
LPT	1 x LPT Header with Shroud (2.0mm Pitch)			
	3 x USB 2.0 Headers with Shroud (6 Ports on Header) (30µ Gold Plated)			
USB	1 x USB 3.1 Gen 1 Header with Shroud (2 Ports On Header) (30µ Gold Plated)			
СОМ	5 x RS-232 Headers with Voltage Selection (2.0mm Pitch Locking Type)			
LVDS/eDP	1 x LVDS Header (Gold Plated)(Optional eDP)			
Backlight	1 x Backlight Locking Type Header (Gold Flashed)			
LPC	1 x LPC Header (2.0mm Pitch)			
SPI	1 x SPI Header (2.0mm Pitch)			
Front Audio	1 x Front Audio Header with Shroud (2.54mm Pitch) (30µ Gold Plated)			
Amplifier	1 x Amplifier Locking Type Header (2.0mm Pitch)			
Front Panel	1 x Front Panel Headers with Shroud (2.54mm Pitch) (30µ Gold Plated)			
GPIO	1 x 8 bits GPIO Header with Shroud (2.0mm Pitch)			
Fan	1 x 4 Pin CPU Fan Header (4 Pin PWM)			
	2 x 4 Pin Chassis Fan Header (4 Pin PWM)			
LAN Status LED	2 x LAN Status LED Headers			
CMOS Battery	1 x Horizontal Socket Type CMOS Battery Holder			
Buzzer	1 x Onboard Buzzer			
Chassis Intrusion	sion 1 x Chassis Intrusion Locking Type Header			

Back I/O Panel					
СОМ	1 x RS-232/422/485 Connector (Gold Plated)				
HDMI	1 x HDMI Connector (30µ Gold Plated)				
DP	2 x DisplayPort Connector (30µ Gold Plated) (4k/2k Capable)				
LAN & USB	2 x RJ45 & Dual USB 3.1 Gen 2 (Stacked)				
	2 x USB 3.1 Gen 1 Ports				
036	1 x USB Type-C (USB 3.1 Gen 2 Speed)				
Audio	1 x 3 Jacks Audio Connector (30mm Height)				
	1 x Std. 24 pin ATX Connector (30µ Gold Plated)				
Power & Connector	1 x 4 pin ATX 12 Connector (30µ Gold Plated)				
	AT/ATX Mode Jumper				
Operating System	Windows 10, Ubuntu Linux				
Form Factor	μATX 9.6" x 9.6"				
Layer	6 Layer Board				
Color	BCM Standard Blue				
Regulatory	FCC Class B/CE/UL 62368-1 Second Edition				
Compliance	RoHS Compliant				
Operation Environment					
Temperature	0 C to 60 C				
Humidity	5% to 90% non-condensing				
Storage Environment					
Temperature	-20 C to 80 C				
Humidity	5% to 90% non-condensing				
Accessories					
I/O Shield	1 x I/O Shield				

### **Block Diagram**



# **Chapter 1 - Product Introduction**

### 1.1 Before you Proceed

Take note of the following precautions before you install motherboard components or change any motherboard settings.

- Unplug the power cord from the wall socket before touching any component.
- Use a grounded wrist strap or touch a safely grounded object or a metal object, such as the power supply case, before handling components to avoid damaging them due to static electricity
- Hold components by the edges to avoid touching the ICs on them.
- Whenever you uninstall any component, place it on a grounded anti-static pad or in the bag that came with the component.
- Before you install or remove any component, ensure that the ATX power supply is switched off or the power cord is detached from the power supply. Failure to do so may cause severe damage to the motherboard, peripherals, and/or components.

### **1.2 Motherboard Overview**

Before you install the motherboard, study the configuration of your chassis to ensure that the motherboard fits into it. Refer to the chassis documentation before installing the motherboard.



Make sure to unplug the power cord before installing or removing the motherboard. Failure to do so can cause you physical injury and damage motherboard components.

#### **1.2.1 Placement Direction**

When installing the motherboard, make sure that you place it into the chassis in the correct orientation. The edge with external ports goes to the rear part of the chassis as indicated in the image below.

#### 1.2.2 Screw Holes

Place eight (8) screws into the holes indicated by circles to secure the motherboard to the chassis.



Do not over tighten the screws! Doing so can damage the motherboard.



Place this side towards the rear of the chassis.

### 1.2.3 Motherboard Layout



#### **1.2.4 Layout Content List**

Item	Description	Item	Description
Α	Front Audio Header	R	Backlight Header
В	Speaker Header	S	Chassis Intrusion Header
С	USB3.1 Gen1 Header (2x port)	Т	LVDS PWM Control Selection
D	5x RS232 Header	U	Backlight Voltage Jumper
ш	5x RS232 Voltage Selection Header	V	4x DDR4 288pin Slot
F	3x USB2 Header (2x port)	W	System Fan
G	Front Panel Header	X	CPU Fan
H	5x SATA III Connectors	Y	4 pin ATX 12 Connector
-	LPC Header	Z	Powered RS232 Jumper
J	1x SATA III Connectors (Shared with M.2)	AA	RS422/485 Mode Selection Jumper
K	Clear CMOS Header	BB	LAN LED Header
L	SPI Header	CC	LVDS/eDP Header
Μ	AT/ATX Mode Selection	DD	PCIe X16 Slot (x16 lanes)
N	M.2 Type A/E 2232 (with USB & PCIe x2)	EE	PCIe X1 Slot
0	8 bits GPIO Header	FF	M.2 Type M 2242/60/80 Slot (with USB, PCIe x4 & SATA III)
Р	LPT Header	GG	2x PCIe X16 Slot (x4 lanes)
Q	24 pin ATX Connector		

### **1.3 Central Processing Unit (CPU)**

The motherboard comes with a surface mount LGA1151 socket designed for the Intel® Core™ i7/ i5/ i3 processor in the 1151-land package.

• Your boxed Intel® Core<sup>™</sup> i7/ i5/ i3 LGA1151 processor package should come with installation instructions for the CPU, fan and heatsink assembly. If the instructions in this section do not match the CPU documentation, follow the latter.



- Upon purchase of the motherboard, make sure that the PnP cap is on the socket and the socket pins are not bent. Contact your retailer immediately if the PnP cap is missing, or if you see any damage to the PnP cap/socket pins/motherboard components. XXXXXX will shoulder the cost of repair only if the damage is shipment/transit-related.
- Keep the cap after installing the motherboard. XXXXXX will process Return Merchandise Authorization (RMA) requests only if the motherboard comes with the cap on the LGA1151 socket.

- The product warranty does not cover damage to the socket pins resulting from incorrect CPU installation/removal, or misplacement/loss/incorrect removal of the PnP cap.
- Install the CPU fan and heatsink assembly before you install motherboard to the chassis.



If you purchased a separate CPU heatsink and fan assembly, make sure that you have properly applied Thermal Interface Material to the CPU heatsink or CPU before you install the heatsink and fan assembly.

#### 1.3.1 Installing the CPU

1. Locate the CPU socket on the motherboard.





Before installing the CPU, make sure that the socket box is facing towards you and the load lever is on your left.

2. Press the load lever with your thumb (A), then move it to the left (B) until it is released from the retention tab.



To prevent damage to the socket pins, do not remove the PnP cap unless you are installing a CPU.

3. Lift the Load lever with your thumb and forefinger to around 180° angle (A), then pull the PnP cap from the CPU socket to remove (B).



4. Position the CPU over the socket, making sure that the gold triangle is on the top-left corner of the socket then fit the socket alignment key into the CPU notch.



5. Pull back the load lever , then push the load lever (A) until it snaps into the retention tab.





The CPU fits in only one correct orientation. DO NOT force the CPU into the socket to prevent bending the connectors on the socket and damaging the CPU!

#### 1.3.2 Installing the CPU Heatsink and Fan

Intel® Core<sup>™</sup> i7/ i5/ i3 LGA1151 processor requires a specially designed heatsink and fan assembly to ensure optimum thermal condition and performance.

- Install the motherboard to the chassis before you install the CPU fan and heatsink assembly.
- When you buy a boxed Intel<sup>®</sup> Core<sup>™</sup> i7/ i5/ i3 LGA1151 processor, the package includes the CPU fan and heatsink assembly. If you buy a CPU separately, make sure that you use only Intel<sup>®</sup> certified multi-directional heatsink and fan.
- Your Intel® Core<sup>™</sup> i7/ i5/ i3 LGA1151 processor LGA1151 heatsink and fan assembly comes in a push-pin design and requires no tool to install.

If you purchased a separate CPU heatsink and fan assembly, make



sure that you have properly applied Thermal Interface Material to the

CPU heatsink or CPU before you install the heatsink and fan assembly.

#### To install the CPU heatsink and fan:

1. Place the heatsink on top of the installed CPU, making sure that the four fasteners match the holes on the motherboard.



Orient the heatsink and fan assembly such that the CPU fan cable is closest to the CPU fan connector.



Make sure each fastener is oriented as shown, with the narrow groove directed outward.

2. Push down two fasteners at a time in a diagonal sequence to secure the heatsink and fan assembly in place.





3. Connect the CPU fan cable to the connector on the motherboard labeled J\_CPU\_FAN1.





Do not forget to connect the fan cables to the fan connectors. Insufficient air flow inside the system may damage the motherboard components.

These are not jumpers! DO NOT place jumper caps on the fan connectors.

#### 1.3.3 Uninstalling the CPU Heatsink and Fan

#### To uninstall the CPU heatsink and fan:

- 1. Disconnect the CPU fan cable from the connector on the motherboard.
- 2. Rotate each fastener counterclockwise



3. Pull up two fasteners at a time in a diagonal sequence to disengage the heatsink and fan assembly from the motherboard.





- 4. Carefully remove the heatsink and fan assembly from the motherboard.
- 5. Rotate each fastener clockwise to ensure correct orientation when reinstalling.



### 1.4 System Memory

#### 1.4.1 Overview

The motherboard comes with four 288-pin Double Data Rate 4 (DDR4) Dual Inline Memory Modules (DIMM) sockets.

DDR4 SDRAM, an abbreviation for double data rate fourth generation synchronous dynamic random-access memory, is a type of synchronous dynamic random-access memory (SDRAM) with a high bandwidth ("double data rate") interface. The primary advantages of DDR4 over its predecessor, DDR3, include higher module density and lower voltage requirements, coupled with higher data rate transfer speeds. DDR4 memory comes in 288-pin DIMM modules, similar in size to 240-pin DDR3 DIMMs. The pins are spaced more closely (0.85 mm instead of 1.0) to fit the increased amount within the same 5¼ inch (133.35 mm) standard DIMM length but, the height is increased slightly (31.25 mm/1.23 in instead of 30.35 mm/1.2 in) to make signal routing easier, and the thickness is also increased (to 1.2 mm from 1.0) to accommodate more signal layers.DDR4 DIMM modules have a slightly curved edge connector so not all of the pins are engaged at a time during module insertion, lowering the insertion force.



288-Pin DDR4 DIMM slots

#### 1.4.2 Installing a DIMM



Make sure to unplug the power supply before adding or removing DIMMs or other system components. Failure to do so may cause severe damage to both the motherboard and the components.

- 1. Locate the DIMM socket on the board.
- 2. Hold two edges of the DIMM module carefully, and keep away of touching its connectors.
- 3. Align the notch key on the module with the rib on the slot.
- 4. Firmly press the modules into the socket which will automatically snap into the mounting notch. Do not force the DIMM module in with extra force as the DIMM module only fits in one direction.



- A DDR4 DIMM is keyed with a notch so that it fits in only one direction. DO NOT force a DIMM into a socket to avoid damaging the DIMM.
  - The DDR4 DIMM sockets do not support DDR/DDR2/DDR3 DIMMs. DO NOT install DDR/DDR2/DDR3 DIMMs to the DDR4 DIMM socket.

#### 1.4.3 Removing a DDR4 DIMM

1. Press the two ejector tabs on the slot outward simultaneously, and then pull out the DIMM module.



Support the DIMM lightly with your fingers when pressing the ejector tabs. The DIMM might get damaged when it flips out with extra force.

### **1.5 Expansion Card**

In the future, you may need to install expansion cards. The following sub-sections describe the slots and the expansion cards that they support.



Make sure to unplug the power cord before adding or removing expansion cards. Failure to do so may cause you physical injury and damage motherboard components.

#### 1.5.1 Installing an Expansion Card

- 1. Before installing the expansion card, read the documentation that came with it and make the necessary hardware settings for the card.
- 2. Remove the system unit cover (if your motherboard is already installed in a chassis).
- 3. Remove the bracket opposite the slot that you intend to use. Keep the screw for later use.
- 4. Align the card connector with the slot and press firmly until the card is completely seated on the slot.
- 5. Secure the card to the chassis with the screw you removed earlier.
- 6. Replace the system cover.

#### 1.5.2 Configuring an Expansion Card

After installing the expansion card, configure it by adjusting the software settings.

- 1. Turn on the system and change the necessary BIOS settings, if any. See Chapter 2 for information on BIOS setup.
- 2. Assign an IRQ to the card if needed. Refer to the tables on the next page.
- 3. Install the software drivers for the expansion card.

#### 1.5.3 PCI Express slot

This motherboard supports1x PCIe x16 slot that complies with the PCI Express specifications.

1x PCIe x1 slot 2x PCIe x16 slot (4 Lanes)



#### 1.5.4 M.2 connector



- M.2 A/E Key 2232 Slot (with USB & PCIe x2)
- M.2 M Key 2242, 2260, 2280 Slot (with USB, PCIe x4 & SATA III)

### 1.6 Jumpers

### 1.6.1 Clear CMOS (CLCMOS1)

This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. You can clear the CMOS memory of date, time, and system setup parameters by erasing the CMOS RTC RAM data. The onboard button cell battery powers the RAM data in CMOS, which includes system setup information.

Note: Clear CMOS will still keeping the BIOS's passwords. .

#### To erase the RTC RAM:

- 1. Turn OFF the computer and unplug the power cord.
- 2. Remove the onboard battery.
- 3. Move the jumper cap from pins 2-3 (default) to pins 1-2. Keep the cap on pins 1-2 for about 5~10 seconds, then move the cap back to pins 2-3.
- 4. Re-install the battery.
- 5. Plug the power cord and turn ON the computer.
- 6. Hold down the <Del> key during the boot process and enter BIOS setup to re-enter data.





You do not need to clear the RTC when the system hangs due to overclocking. For system failure due to overclocking, use the C.P.R. (CPU Parameter Recall) feature. Shut down and reboot the system so the BIOS can automatically reset parameter settings to default values.

#### 1.6.2 AT/ATX Power Mode Select (JPSON1)

This jumper allows you to select ATX Mode or AT mode



### 1.6.3 COM POWER SETTING (J27, J25, J33, J42, J40, J44)

This jumper allows you to select COM1~6 to support Ring/+12V/+5V





1.6.5 LVDS Blacklight PWM Voltage Selection (BKLVOL1)





#### 1.6.6 LVDS Backlight PWM Source Selection (LVDSBKL1)

### 1.6 Connectors

DO NOT recommend mix matching GOLD plated connectors with TIN one.

#### 1.7.1 Rear panel connectors



ltem	Name	Function	Description
1	COM6	Serial COM Port	The Serial COM port 6 supports RS-232/422/485
2	DDP_1	Display Port	These two display port Connectors are available for connecting display port devices.

Ũ	HDMI	HDMI Port	The HDMI port Connector				
4	DUSB_H D_1	USB 3.1 Gen1 port	These two Universal Serial Bus (USB) ports are available for connecting USB 3.1 devices				
5	USBC_1	USB 3.1 Gen2 port	This is USB 3.1 Gen2 Type-C connector				
6	LAN_DUS B_2	USB 3.1 Gen2 port	These two Universal Serial Bus (USB) ports are available for connecting USB 3.1 devices				
7	LAN2	Gigabit LAN (RJ-45) Connectors	This po Networ table be ACT/ Status OFF	ort allows ( k (LAN) the elow for the Link LED Description No link	Gigabit nrough ne LAN Status OFF	connection to a a network hub. port LED indica Speed LED Description 10Mbps connection	a Local Area Refer to the ations.
		LAN port	Orange Blinking	Linked Data activity	Green Orange	100Mbps connection 1Gbps connection	
8	LAN_DUS B_1	USB 3.1 Gen2 port	These availab	two Unive le for con	rsal Se necting	rial Bus (USB) USB 3.1 device	ports are es
9							
	LANT	Gigabit LAN (RJ-45)	This po Networ table be	rt allows ( k (LAN) th elow for th	Gigabit nrough ne LAN	connection to a a network hub. port LED indica	a Local Area Refer to the ations.
	LANT	Gigabit LAN (RJ-45) Connectors	This po Networ table bo	rt allows ( k (LAN) th elow for th	Gigabit nrough ne LAN	connection to a a network hub. port LED indica	a Local Area Refer to the ations.
	LANT	Gigabit LAN (RJ-45) Connectors	This pc Networ table be ACT/ Status	ort allows ( k (LAN) the elow for the Link LED	Gigabit nrough ne LAN <sup>Status</sup>	connection to a a network hub. port LED indica Speed LED Description	a Local Area Refer to the ations.
	LANT	Gigabit LAN (RJ-45) Connectors	This pc Networ table be ACT/ Status OFF	rt allows ( k (LAN) the elow for the Link LED Description No link	Gigabit nrough ne LAN Status OFF	connection to a a network hub. port LED indica Speed LED Description 10Mbps connection	a Local Area Refer to the ations.
	LANT	Gigabit LAN (RJ-45) Connectors	This pc Networ table be ACT/ Status OFF Orange	rt allows ( k (LAN) th elow for th Link LED Description No link Linked	Gigabit nrough ne LAN Status OFF Green	connection to a a network hub. port LED indica Speed LED Description 10Mbps connection	a Local Area Refer to the ations.
	LANT	Gigabit LAN (RJ-45) Connectors	This pc Networ table be ACT/ Status OFF Orange Blinking	rt allows ( k (LAN) the elow for the Link LED Description No link Linked Data activity	Gigabit nrough ne LAN Status OFF Green Orange	connection to a a network hub. port LED indica Speed LED Description 10Mbps connection 100Mbps connection 1Gbps connection	a Local Area Refer to the ations.
10	AUDIO1	Gigabit LAN (RJ-45) Connectors	This pc Networ table be ACT/ Status OFF Orange Blinking	rt allows ( k (LAN) the low for the low fo	Gigabit nrough ne LAN Status OFF Green Orange ts a mie	connection to a a network hub. port LED indica Speed LED Description 10Mbps connection 100Mbps connection 1Gbps connection	a Local Area Refer to the ations.
10	AUDIO1 AUDIO1	Gigabit LAN (RJ-45) Connectors ACT/LINK SPEED LED LED LED LED LED LED LED LED LED	This pc Networ table be ACT/ Status OFF Orange Blinking This pc channe function	rt allows ( k (LAN) the low for the low fo	Gigabit rrough he LAN Status OFF Green Orange ts a mid ts a mid ts a hea nel, and ort beco	connection to a a network hub. port LED indica Speed LED Description 10Mbps connection 100Mbps connection 1Gbps connection crophone.	a Local Area Refer to the ations.

# 1.7.2 CPU and System fan connectors (J\_CPU\_FAN1, J\_FIO\_FAN1, J\_RIO\_FAN1)

Connect the fan cables to the fan connectors on the motherboard, making sure that the black wire of each cable matches the ground pin of the connector.



### 1.7.3 Front Panel connector (J\_FIO\_1)

This Connector is for a chassis-mounted front panel. The function are as following.



#### • ATX Power Button/Soft-off Button (Pin 6-8)

This 2-pin connector is for the system power button. Pressing the power button turns the system on or puts the system in sleep or soft-off mode depending on the BIOS settings. Pressing the power switch and holding it for more than four seconds while the system is ON turns the system OFF.

#### • Reset Button (Pin 5-7)

This 2-pin connector is for the chassis-mounted reset button for system reboot without turning off the system power.

#### • Power LED (Pin 2-4)

This 2-pin connector is for the system power LED. Connect the chassis power LED cable to this connector. The system power LED lights up when you turn on the system power, and blinks when the system is in sleep mode.

#### • Hard Disk Drive Activity LED (Pin 1-3)

This 2-pin connector is for the HDD Activity LED. Connect the HDD Activity LED cable to this connector. The IDE LED lights up or flashes when data is read from or written to the HDD.

#### 1.7.4 ATX power connectors (ATX24P\_1 & ATX4P\_1)

The connector is for ATX power supply plugs. The power supply plugs are designed to fit these connectors in only one orientation. Find the proper orientation and push down firmly until the connectors completely fit.





#### 1.7.5 Serial Port Connectors (COM1~5)

#### 1.7.6 Serial ATA Connector (SATA1~6)

SATA 1~6 support SATA 3.0. These connectors are for the Serial ATA signal cables for Serial ATA hard disk drives.



USB

2.0

### 1.7.7 USB connectors (FP\_USB2\_1, FP\_USB2\_2, FP\_USB2\_3)

These connectors are for USB 2.0 ports. Connect the optional USB module cable to any of



#### 1.7.8 USB connectors (FP\_USB3\_1)

These connectors are for two USB 3.1 Gen1 ports. Connect the optional USB module cable to any of these connectors, then install the module to a slot opening at the back of the system chassis.





1.7.10 LVDS (Default) / eDP (Optional) connector	r (J5)
1. +3 3. +3 5. L3 7. Gl 9. L5 11. L 13. C 15. L 17. L 19. C	3V 2. +5V   3V 4. +5V   S_SCL (AUX-) 6. LS_SDA (AUX+)   ND 8.GND (HPDET)   S0_L1_D+ (eDP1+) 10. LS0_L0_D+ (eDP0+)   _S0_L1_D- (eDP1-) 12. LS0_L0_D- (eDP0-)   GND 14.GND   LS0_L3_D+ (eDP3+) 16. LS0_L2_D+ (eDP2+)   LS0_L3_D- (eDP3-) 18. LS0_L2_D- (eDP2-)   GND 20 GND 20 GND 20 GND
* •	LS1_L1_D+ (BK_EN) 22. LS1_L0_D+ (BK_PWM)   LS1_L1_D- 24. LS1_L0_D-   GND 26.GND   LS1_L3_D+ 28. LS1_L2_D+   LS1_L3_D- 30. LS1_L2_D-   GND 32.GND   LS1_CLK_D+ 34. LS0_CLK_D+   LS1_CLK_D- 36. LS0_CLK_D-   GND 38.GND

### 1.7.9 LPT Port Connector (LPT1)



#### 1.7.11 LVDS Backlight Connector (JBKL1)





#### 1.7.13 AMP speaker Connector (JAMP1)




## 1.7.15 8 bits GPIO connector (GPIO\_HDR1)

# Chapter 2 - BIOS Setup 2.1 BIOS Menu Page

Main	Advanced	Chipset	Security	Boot	Save & ]	Exit	
<b>BIOS Infor</b>	mation	-		-	-		Item help
<b>BIOS Vend</b>	er		America	n Megat	trends		
Core Version		5.13					
Complianc	y		<b>UEFI 2.</b>	7; PI 1.6	5		
<b>BIOS Versi</b>	on		RX370Q	<b>)</b> (71601)	V0.01		
<b>Build Date</b>			03/05/20	18			
ME FW Ve	rsion		12.0.0.10	059			
Processor I	nformation						
Intel(R) CC	DRE(TM) í	7-8700 CPU	(a) 3.20GH	Z			
Memory In	formation						
Total Memo	ry		65536 N	1B			
Memory Fr	equency		2667 MI	Hz			
							→←: Select Screen
							↑↓: Select Item
							Enter: Select
							+/- : Change Opt.
							F1: General Help
							F2: Previous Values
							F3: Optimized Defaults
System Date			[Www n	nm/dd/yy	уу]		F4: Save & Reset
System Time	e		[hh:mm:	ss]			ESC: Exit
	Vor	rsion 2 20 127	1 Converight (	C) 2018 A	morioon Moa	otronde	Inc
	ver	SIOII 2.20.127	- Copyright (	<del>C) 2018</del> AI	mericali wieg	atrenus,	1110.

Field Name	BIOS Vender
Default Value	American Megatrends
Comment	This field is not selectable. There is no help text associated with it.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Core Version
Default Value	5.13
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Compliancy
Default Value	UEFI 2.7 ; PI 1.6
Comment	This field is not selectable. There is no help text associated with it.

Field Name	BIOS Version
Default Value	Display the version of the BIOS
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Build Date
Default Value	Display build date of the BIOS
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ME FW Version
Value	ME Firmware Version.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Processor Information
Value	Display the installed CPU brand.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Total Memory
Value	Display the installed memory size.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Memory Frequency
Value	Display the installed memory frequency.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	System Date
Default Value	[Www mm/dd/yyyy]
Possible Value	Www : Mon/Tue/Wed/Thu/Fri/Sat/Sun
	mm : 1-12
	dd : 1-31
	уууу : 1998-9999
Help	Set the Date. Use Tab to switch between Date elements.

Field Name	System Time
Default Value	[hh :mm :ss]
Possible Value	hh : 0-23 mm : 0-59 ss : 0-59
Help	Set the Time. Use Tab to switch between Time elements.

# 2.2 Advanced Page

Main	Advanced	Chipset	Security	Boot	Save & Exit	
► CPU C	onfiguration					Item help
► PCH-F	W Configurat	tion				
► Trustee	d Computing					
► ACPI S	Settings					
► SMAR	T Settings					
► Super	IO Configurat	ion				
►Hardw	are Monitor					
► S5 RT(	C Wake Settin	gs				
► Intel T	XT Information	on				
► AMI G	raphic Output	t Protocol F	Policy (Availa	able when	UEFI video)	
►USB C	onfiguration					→←: Select Screen
► Netwo	rk Stack Conf	iguration				↑↓: Select Item
CSM C	Configuration					Enter: Select
► NVMe	Configuration	n				+/- : Change Opt
						F1: General Help
► Intel (F	R) Rapid Stora	ige Technol	logy (Intel R	ST enable	ed)	F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	CPU Configuration
Help	CPU Configuration Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	PCH-FW Configuration
Help	Configure Management Engine Technology Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Trusted Computing
Help	Trusted Computing Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	ACPI Settings
Help	System ACPI Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	SMART Settings
Help	System SMART Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Super IO Configuration
Help	System Super IO Chip Parameters.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Hardware Monitor
Help	Monitor hardware status
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	S5 RTC Wake Settings
Help	Enable system to wake from S5 using RTC alarm
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Intel TXT Information
Help	Display Intel TXT information
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	AMI Graphic Output Protocol Policy (Available when UEFI video)
Help	User Select Monitor Output by Graphic Output Protocol.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	USB Configuration
Help	USB Configuration Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Network Stack Configuration
Help	Network Stack Settings.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	CSM Configuration
Help	CSM configuration: Enable/Disable, Option ROM execution settings, etc.
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	NVMe Configuration
Help	NVMe Device Options Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Intel (R) Rapid Storage Technology
Help	This formset allow the user to manage RAID volumes on the
	Intel(R) RAID Controller.
Comment	Press Enter when selected to go into the associated Sub-Menu.

## 2.2.1 CPU Configuration

Main Advanced Chipset	Security	Boot	Save & Exit	
<b>CPU Configuration</b>				Item help
Туре		Intel(R) C	Core(TM) CPU	
		i7-8700 C	PU@ 3.20 GHz	
ID		0x906EA		
Speed		3200 MHz	Z	
L1 Data Cache		32 KB x 6	I	
L1 Instruction Cache		32 KB x 6		
L2 Cache		256 KB x	6	
L3 Cache		<b>12MB</b>		
L4 Cache		N/A		
VMX		Supported	d	
SMX/TXT		Supported	d	
				→←: Select Screen
Hardware Prefetcher		[Enabled]		<b>↑↓: Select Item</b>
Adjacent Cache Line Prefetch		[Enabled]		Enter: Select
Active Processor Cores		[All]		+/- : Change Opt
Hyper-Threading		[Enabled]		F1: General Help
Intel Trusted Execution Technolo	ogy	[Disabled]		F2: Previous Values
				F3: Optimized Defaults
				F4: Save & Reset
				ESC: Exit
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Field Name	Туре
Default Value	[Intel CPU Brand String]
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ID
Default Value	Displays CPU Signature
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Speed
Default Value	Displays the CPU Speed
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L1 Data Cache
Default Value	L1 Data Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L1 Instruction Cache
Default Value	L1 Instruction Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L2 Cache
Default Value	L2 Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L3 Cache
Default Value	L3 Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	L4 Cache
Default Value	L4 Cache Size
Comment	This field is not selectable. There is no help text associated with it.

Field Name	VMX
Default Value	VMX Supported or Not
Comment	This field is not selectable. There is no help text associated with it.

Field Name	SMX/TXT
Default Value	SMX/TXT Supported or Not
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Hardware Prefetcher
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	To turn on/off the MLC streamer prefetcher.

Field Name	Adjacent Cache Line Prefetch
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	To turn on/off the prefetching of adjacent cache lines.

Field Name	Active Processor Cores
Default Value	[AII]
Possible Value	All
	1-5 (by CPU Model)
Help	Number of cores to enable in each processor package.

Field Name	Hyper-Threading
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Enabled for Windows XP and Linux (OS optimized for Hyper-Threading
	Technology) and Disabled for other OS (OS not optimized for Hyper-Threading
	Technology).

Field Name	Intel Trusted Execution Technology
Default Value	[Disabled]
Possible Value	Enabled
	Disabled
Help	Enables utilization of additional hardware capabilities provided by Intel (R)
	Trusted Execution Technology.
	Changes require a full power cycle to take effect.

## 2.2.2 PCH-FW Configuration

Main A	dvanced	Chipset	Security	Boot	Save & Exit	
ME Fir	rmware Ver	sion	1	12.0.0.1059		Item help
ME Fir	rmware Mo	de	ľ	Normal Mod	e	
ME Fir	rmware SK	U	(	Corporate SF	ΚU	
ME Fir	rmware Sta	tus 1	0	)x90000255		
ME Fir	rmware Sta	tus 2	(	)x80108106		
Manage	ability Fea	tures State	) (	Enabled]		
AMT BI	OS Feature	es	ī	Enabled]		→←: Select Screen
► AMT C	onfiguratio	n				<b>↑↓: Select Item</b>
	J. J					Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	ME Firmware Version
Default Value	ME version value by BIOS release
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ME Firmware Mode
Default Value	ME Mode
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ME Firmware SKU
Default Value	ME SKU by BIOS release
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ME Firmware Status 1
Default Value	0x90000255
Comment	This field is not selectable. There is no help text associated with it.

Field Name	ME Firmware Status 2
Default Value	0x80108106
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Manageability Features State
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Enable/Disable Intel(R) Manageability features. NOTE: This option
	disables/enables Manageability Features support in FW.
	To disable support platform must be in an unprovisioned state first.

Field Name	AMT BIOS Features
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	When disabled AMT BIOS Features are no longer supported and user is no longer able to access MEBx Setup.Note:This option does not disable Manageability Features in FW.

Field Name	AMT Configuration
Help	Configure Intel (R) Active Management Technology Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

## 2.2.2.1 AMT Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
ASF	support		[[	Enabled]		ltem help
USB	Provisioning	of AMT	[[	Disabled]		
						$\rightarrow \leftarrow$ : Select Screen
						↑↓: Select Item
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
		Version 2.20	.1271. Copyr	ight (C) 2018	American Megatr	rends, Inc.

Field Name	ASF support
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Enable/Disable Alert Standard Format support.

Field Name	USB Provisioning of AMT
Default Value	[Disabled]
Possible Value	Enabled
	Disabled
Help	Enable/Disable of AMT USB Provisioning.

## 2.2.3 Trusted Computing

Main Advanced Chipse	t Security Boot	Save & Exit	
TPM20 Device Found			Item help
Firmware Version:	5.51		
Vender:	IFX		
Security Device Support	[Enable]		
Pending operation	[None]		→←: Select Screen
TPM2.0 UEFI Spec Version	n [TCG_2]		<b>↑↓: Select Item</b>
			Enter: Select
			+/- : Change Opt
			F1: General Help
			F2: Previous Values
			F3: Optimized Defaults
			F4: Save & Reset
			ESC: Exit

Field Name	Security Device Support
Default Value	[Enable] Security Device
Possible Value	Enable
	Disable
Help	Enables or Disables BIOS support for security device. O.S. will not show Security Device. TCG EFI protocol and INT1A interface will not be available.

Field Name	Pending operation
Default Value	[None]
Possible Value	None
	TPM Clear
Help	Schedule an Operation for the Security Device. NOTE: Your Computer will reboot
	during restart in order to change State of Security Device.

Field Name	TPM2.0 UEFI Spec Version
Default Value	[TCG_2]
Possible Value	TCG_1_2 TCG_2
Help	Select the TCG2 Spec Version Support,TCG_1_2: the Compatible mode for Win8/Win10,TCG_2: Support new TCG2 protocol and event format for Win10 or later.

#### 2.2.4 ACPI Settings

Main	Advanced	Chipset	Security	Boot	Save & Exit	-
ACPI	Settings	-		-		Item help
Enabl	le ACPI Auto	Configurat	ion [	Disabled]		→←: Select Screen
						<b>↑↓: Select Item</b>
Enabl	le Hibernation	n	[	Enabled]		Enter: Select
ACPI	Sleep State		[	S3 (Suspend	to RAM)]	+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	Enable ACPI Auto Configuration
Default Value	[Disabled]
Possible Value	Enabled
	Disabled
Help	Enables or Disables BIOS ACPI Auto Configuration.

Field Name	Enable Hibernation
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Enables or Disables System ability to Hibernate (OS/S4 Sleep State). This option
	may be not effective with some operating systems.

Field Name	ACPI Sleep State
Default Value	[S3 (Suspend to RAM)]
Possible Value	Suspend Disabled
	S3 (Suspend to RAM)
Help	Select the highest ACPI sleep state the system will enter when the SUSPEND
	button is pressed.

## 2.2.5 SMART Settings

Main	Advanced	Chipset	Security	Boot	Save & Exit	
SMA	RT Settings	-		-	-	Item help
SMA	RT Self Test		[Dis	sabled]		→←: Select Screen
						↑↓: Select Item
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	SMART Self Test
Default Value	[Disabled]
Possible Value	Disabled
	Enabled
Help	Run SMART Self Test on all HDDs during POST.

# 2.2.6 Super IO Configuration

Main Advanced Chip	set Security	y Boot	Save & Exit	-	
NCT6116D Super IO Co	onfiguration		-	Item help	
				_	
Super IO Chip		NCT6116D			
Serial Port 1 Configurati	on			→←: Select Screen	
Serial Port 2 Configurati	on			<b>↑↓: Select Item</b>	
Serial Port 3 Configurati	on			Enter: Select	
Serial Port 4 Configurati	on			+/- : Change Opt	
Serial Port 5 Configurati	on			F1: General Help	
Serial Port 6 Configurati	on			F2: Previous Values	
► Parallel Port Configurati	on			F3: Optimized Defaults	
				F4: Save & Reset	
WatchDog Count Mode		Seco	nd]	ESC: Exit	
WatchDog TimeOut Value	e	0	-		
Versio	Version 2.20.1271. Copyright (C) 2018 American Megatrends, Inc.				

Field Name	Serial Port 1 Configuration
Help	Set Parameters of Serial Port 1 (COMA)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 2 Configuration
Help	Set Parameters of Serial Port 2 (COMB)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 3 Configuration
Help	Set Parameters of Serial Port 3 (COMC)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 4 Configuration
Help	Set Parameters of Serial Port 4 (COMD)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 5 Configuration
Help	Set Parameters of Serial Port 5 (COME)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Serial Port 6 Configuration
Help	Set Parameters of Serial Port 6 (COMF)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Parallel Port Configuration
Help	Set Parameters of Parallel Port (LPT/LPTE)
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	WatchDog Count Mode
Default Value	[Second]
Possible Value	Second
	Minute
Help	Configure watchdog count mode

Field Name	WatchDog TimeOut Value
Default Value	0
Possible Value	0-255
Help	Configure watchdog TimeOut Value

#### 2.2.6.1 Serial Port 1 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Serial	Port 1 Conf	iguration				Item help
a . 1 b					1.1.17	
Serial P	ort			[Ena	abled	→←: Select Screen
Device	Settings			IO=	2E8h; IRQ=7;	↑ ↓ : Select Item
						Enter: Select
Change	Settings			[Aut	to]	+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM1 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[Auto]
Possible Value	Auto
	IO=2E8h; IRQ=7;
	IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2F0h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E0h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

#### 2.2.6.2 Serial Port 2 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Serial	Port 2 Conf	iguration				Item help
Serial F	Port			[Ena	abled]	→←: Select Screen
Device	Settings			10=	=2F0h; IRQ=7;	↑ ↓ : Select Item Enter: Select
Change	e Settings			[Au	to]	+/- : Change Opt F1: General Help
						F2: Previous Values F3: Optimized Defaults
						F4: Save & Reset ESC: Exit
		Version 2.20	.1271. Copyrig	zht (C) 201	8 American Megatr	ends. Inc.

Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM2 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[Auto]
Possible Value	Auto
	IO=2E0h; IRQ=7;
	IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2F0h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E0h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

#### 2.2.6.3 Serial Port 3 Configuration

Serial Port 3 ConfigurationIterSerial Port[Enabled]→←: Select SDevice SettingsIO=3E8h; IRQ=7;↑↓: Select In	
Serial Port[Enabled] $\rightarrow \leftarrow$ : Select SDevice SettingsIO=3E8h; IRQ=7; $\uparrow \downarrow$ : Select In	em help
0	Screen Item
Change Settings     [Auto]     +/- : Change G	t Opt
F1: General H F2: Previous '	Help S Values
F3: Optimized F4: Save & R	ed Defaults Reset
ESC: Exit	

Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM3 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[Auto]
Possible Value	Auto
	IO=3E8h; IRQ=7;
	IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2F0h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E0h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

#### 2.2.6.4 Serial Port 4 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Serial	Port 4 Conf	iguration				Item help
Serial F Device	Port Settings			[Enal IO=3	bled] 3F8h; IRO=4;	→←: Select Screen ↑↓: Select Item
						Enter: Select
Change	e Settings			[Auto	<b>b</b> ]	+/- : Change Opt F1: General Help
						F2: Previous Values F3: Ontimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM4 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[Auto]
Possible Value	Auto
	IO=3F8h; IRQ=4;
	IO=3F8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2F8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

#### 2.2.6.5 Serial Port 5 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Serial	l Port 5 Conf	iguration				Item help
Serial I Device	Port Settings			[Ena IO=	abled] =2F8h; IRQ=3;	→←: Select Screen  ↑ ↓ : Select Item
Change	e Settings			[Au	to]	+/- : Change Opt F1: General Help F2: Previous Values
						F3: Optimized Defaults F4: Save & Reset ESC: Exit
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM5 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[Auto]
Possible Value	Auto
	IO=2F8h; IRQ=3;
	IO=3F8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2F8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

#### 2.2.6.6 Serial Port 6 Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Serial	l Port 6 Confi	iguration				Item help
Serial I Device	Port Settings			[Ena IO=	abled] 2E0h; IRQ=7;	→←: Select Screen ↑↓: Select Item Enter: Select
Change Settings Mode Configuration				[Au [3T/	to] /5R RS232]	+/- : Change Opt F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset
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Field Name	Serial Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Serial Port(COM)

Field Name	Device Settings
Default Value	Device Super IO COM6 Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings
Default Value	[Auto]
Possible Value	Auto
	IO=2F0h; IRQ=7;
	IO=3E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E8h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2F0h; IRQ=3,4,5,6,7,9,10,11,12;
	IO=2E0h; IRQ=3,4,5,6,7,9,10,11,12;
Help	Select an optimal settings for Super IO Device

Field Name	Mode Configuration
Default Value	[3T/5R RS232]
Possible Value	1T/1R RS422
	3T/5R RS232
	1T/1R RS485 TX ENABLE Low Active
	1T/1R RS422 with termination resistor
	1T/1R RS485 with termination resistor TX ENABLE Low Active
	Disabled
Help	Configure serial port as RS232/RS422/RS485.

#### 2.2.6.7 Parallel Port Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Paral	Parallel Port Configuration					Item help
Paralle	l Port			[Ena	abled]	→←: Select Screen
Device	Settings			IO=	378h; IRQ=5;	↑ ↓ : Select Item
						Enter: Select
Change	e Settings			[Au	to]	+/- : Change Opt
Device	Mode			[ST]	D Printer Mode]	F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	Parallel Port
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable or Disable Parallel Port(LPT/LPTE)

Field Name	Device Settings
Default Value	Device Super IO LPT/LPTE Address and IRQ.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Change Settings	
Default Value	[Auto]	
Possible Value	Auto	
	IO=378h; IRQ=5;	
	IO=378h; IRQ=5,6,7,9,10,11,12;	
	IO=278h; IRQ=5,6,7,9,10,11,12;	
Help	Select an optimal settings for Super IO Device	

Field Name	Device Mode
Default Value	[STD Printer Mode]
Possible Value	STD Printer Mode
	SPP Mode
	EPP-1.9 and SPP Mode
	EPP-1.7 and SPP Mode
	ECP Mode
	ECP and EPP 1.9 Mode
	ECP and EPP 1.7 Mode
Help	Change the Printer Port mode.

#### 2.2.7 Hardware Monitor

Main	Advanced	Chipset	Security	Boot	Save & Exit	
PC H	ealth Status				-	Item help
CPU T	emperature			: XX °	С	→←: Select Screen
<b>CPU V</b>	<b>R Temperat</b> ı	ire		: XX °	С	<b>↑↓: Select Item</b>
DIMM	[ Temperatur	e		: XX °	С	Enter: Select
CPU F	an Speed			: xxx	x RPM	+/- : Change Opt
<b>Front</b>	Fan Speed			: xxx	x RPM	F1: General Help
Rear F	an Speed			: xxx	x RPM	F2: Previous Values
CPU V	core			: X.X	xx V	F3: Optimized Defaults
<b>3VSB</b>				: X.X	xx V	F4: Save & Reset
System	n Memory			: x.x	xx V	ESC: Exit
12V				: X.X	xx V	
► Sma	rt Fan					
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Туре	Range				
CPU Temperature	-20 ~ (By Processor Tjmax) °C				
CPU VR Temperature	-20 ~ 120 °C				
DIMM Temperature	-20 ~ 120 °C				
CPU Fan Speed	There are many kinds of the fan could be installed into the system, so we could				
Front Fan Speed	only set 0 RPM for the failed fan speed, and there is also no high RPM limitation.				
Rear Fan Speed					
CPU Vcore	0~1.52V				
3VSB	3.135~3.465V				
System Memory	1.14~1.26V				
12V	11.4~12.6V				

Field Name	Smart Fan
Help	Smart Fan Setting
Comment	Press Enter when selected to go into the associated Sub-Menu.

#### 2.2.7.1 Smart Fan

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Smar	t Fan					Item help
Smart	Fan Function			[Dis	abled]	→←: Select Screen
► Sman	rt Fan Mode C	Configuration	1			↑ ↓ : Select Item Enter: Select
						+/- : Change Opt
						F1: General Help F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset ESC: Exit
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Field Name	Smart Fan Function
Default Value	[Disabled]
Possible Value	Disabled
	Enabled
Help	Smart Fan Function setting

Field Name	Smart Fan Mode Configuration
Help	Smart Fan Mode Configuration Setting
Comment	Press Enter when selected to go into the associated Sub-Menu.

Main Adva	nced	Chipset	Security	Boot	Save & Exit	-
						Item help
CPU Fan Set	ting					
Temperatu	re 1			50		
Temperatu	re 2			60		
Temperatu	re 3			70		
Temperatu	re 4			75		
FD/RPM 1	l			127		
FD/RPM 2	2			178		
FD/RPM 3	3			229		
FD/RPM 4	1			255		
Front Fan Se	etting					
Temperatu	re 1			50		
Temperatu	re 2			60		
Temperatu	re 3			70		
Temperatu	re 4			75		
FD/RPM 1	l			127		
FD/RPM 2	2			178		
FD/RPM 3	3			229		
FD/RPM 4	1			255		
Rear Fan Set	tting					
Temperatu	re 1			50		
Temperatu	re 2			60		→←: Select Screen
Temperatu	re 3			70		↑ ↓ : Select Item
Temperatu	re 4			75		Enter: Select
FD/RPM 1	l			127		+/- : Change Opt
FD/RPM 2	2			178		F1: General Help
FD/RPM 3	3			229		F2: Previous Values
FD/RPM 4	1			255		F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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#### 2.2.7.1.1 Smart Fan Mode Configuration

Field Name	Temperature 1
Default Value	By thermal fan profile.
Possible Value	By temperature.
Help	The value of temperature 1

Field Name	Temperature 2
Default Value	By thermal fan profile.
Possible Value	By temperature.
Help	The value of temperature 2

Field Name	Temperature 3
Default Value	By thermal fan profile.
Possible Value	By temperature.
Help	The value of temperature 3

Field Name	Temperature 4
Default Value	By thermal fan profile.
Possible Value	By temperature.
Help	The value of temperature 4

Field Name	FD / RPM 1
Default Value	By thermal fan profile.
Possible Value	By Fan Duty.
Help	The value of Fan Duty/RPM 1 when temperature is T1

Field Name	FD / RPM 2
Default Value	By thermal fan profile.
Possible Value	By Fan Duty.
Help	The value of Fan Duty/RPM 2 when temperature is T2

Field Name	FD / RPM 3
Default Value	By thermal fan profile.
Possible Value	By Fan Duty.
Help	The value of Fan Duty/RPM 3 when temperature is T3

Field Name	FD / RPM 4
Default Value	By thermal fan profile.
Possible Value	By Fan Duty.
Help	The value of Fan Duty/RPM 4 when temperature is T4

		0				
Main	Advanced	Chipset	Security	Boot	Save & Exit	
Wake syst	em from S5	-	-	[Dis	abled]	Item help
Wake up h	nour			0		
Wake up r	ninute			0		
Wake up s	econd			0		
						→←: Select Screen
						<b>↑↓: Select Item</b>
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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#### 2.2.8 S5 RTC Wake Settings

Field Name	Wake system from S5
Default Value	[Disabled]
Possible Value	Disabled
	Fixed Time
Help	Enabler or disable System wake on alarm event, Select FixedTime, system will
	wake on the hr::min::sec specified.
Field Name	Wake up hour(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0-23
Help	Select 0-23 For example enter 3 for 3am and 15 for 3pm
Field Name	Wake up minute(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0-59
Help	Select 0 – 59 for Minute
Field Name	Wake up second(Show when Wake system from S5 set to Fixed Time)
Default Value	0
Possible Value	0 - 59
Help	Select 0 – 59 for Second

Main Advanced Chi	pset Security	Boot Save &	Exit
Intel TXT Information			Item help
Chipset		<b>Production Fu</b>	sed →←: Select Screen
BiosAcm		<b>Production Fu</b>	sed ↑↓: Select Item
Chipset Txt		Supported	Enter: Select
CPU Txt		Supported	+/- : Change Opt
Error Code		None	F1: General Help
<b>Class Code</b>		None	F2: Previous Values
Major Code		None	F3: Optimized Defaults
Minor Code		None	F4: Save & Reset
			ESC: Exit
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## 2.2.9 Intel TXT Information

## 2.2.10 AMI Graphic Output Protocol Policy (Available when UEFI video)

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Intel	(R) Graphics	Controller	ſ	-		Item help
Intel	(R) GOP Dri	ver [9.0.108	80]			_
Outpu	t Select		[Dp	1]		→←: Select Screen
LCD I	Panel Type		[192	20x1080 2	24bit Dual	<b>↑↓: Select Item</b>
			Cha	innel]		
Backli	ight Control		[PW	VM Norm	al]	Enter: Select
LVDS	Control		[Dis	sabled]		+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	Output Select
Default Value	By attached device.
Possible Value	eDP(LVDS Control enabled) / DP1 / DP2 / HDMI3
Help	Output Interface

Field Name	LCD Panel Type
Default Value	[1920x1080 24bit Dual Channel]
Possible Value	800x600 18bit Single Channel
	1024x768 18bit Single Channel
	1024x768 24bit Single Channel
	1280x768 18bit Single Channel
	1280x800 24bit Single Channel
	1280x960 18bit Single Channel
	1280x1024 24bit Dual Channel
	1366x768 18bit Single Channel
	1366x768 24bit Single Channel
	1440x900 24bit Dual Channel
	1440x1050 24bit Dual Channel
	1600x900 24bit Dual Channel
	1680x1050 24bit Dual Channel
	1600x1200 24bit Dual Channel
	1920x1080 24bit Dual Channel
	1920x1200 24bit Dual Channel
Help	Select LCD panel used by Internal Graphics Device by selecting the appropriate
	setup item.

Field Name	Backlight Control
Default Value	[PWM Normal]
Possible Value	PWM Inverted
	PWM Normal
Help	Back Light Control Setting

Field Name	LVDS Control
Default Value	[Disabled]
Possible Value	Disabled
	Enabled
Help	Enabled/Disabled the LVDS.

## 2.2.11 USB Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
USB	Configuratio	Item help				
USB	Module Vers	ion	21			_
USB	Controllers:					
1	XHCI					
USB	Devices:					
1	Keyboard, 1	Mouse, 2 H	lubs			
Legac	y USB Suppor	t	[En	abled]		→←: Select Screen
XHCI	Hand-off		[En	abled]		<b>↑↓: Select Item</b>
USB I	Mass Storage I	Driver Supp	oort [En	abled]		Enter: Select
						+/- : Change Opt
USB h	ardware delay	s and time	e-outs:			F1: General Help
USB t	transfer time-o	ut	[20	sec]		F2: Previous Values
Devic	e reset time-ou	ıt	[20	sec]		F3: Optimized Defaults
Devic	e power-up de	lay	[Au	ıto]		F4: Save & Reset
						ESC: Exit

Field Name	Legacy USB Support
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enables Legacy USB support. AUTO option disables legacy support if no USB devices are connected. DISABLE option will keep USB devices available only for EFI applications.

Field Name	EHCI Hand-off
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	This is a workaround for OSes without XHCI hand-off support. The XHCI
	ownership change should be claimed by XHCI driver.

Field Name	USB Mass Storage Driver Support
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable/Disable USB Mass Storage Driver Support.

Field Name	USB transfer time-out
Default Value	[20 sec]
Possible Value	1 sec

	5 sec
	10 sec
	20 sec
Help	The time-out value for Control, Bulk, and Interrupt transfers.

Field Name	Device reset time-out
Default Value	[20 sec]
Possible Value	10 sec
	20 sec
	30 sec
	40 sec
Help	USB mass storage device Start Unit command time-out.

Field Name	Device power-up delay
Default Value	[Auto]
Possible Value	Auto
	Manual
Help	Maximum time the device will take before it properly reports itself to the Host
	Controller. 'Auto' uses default value: for a Root port it is 100 ms, for a Hub port the
	delay is taken from Hub descriptor.

# 2.2.12 Network Stack Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
						Item help
Netwo	ork stack		[Di	sabled]		_
Ipv4 I	PXE Support		[En	abled]		→←: Select Screen
Ipv6 I	PXE Support		[En	abled]		<b>↑↓: Select Item</b>
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	Network stack
Default Value	[Disabled]
Possible Value	Disabled
	Enabled
Help	Enable/Disable UEFI Network stack.

Field Name	Ipv4 PXE Support (Available when Network stack Enabled)
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable/Disable Ipv4 PXE Boot Support. If disabled IPV4 PXE boot support will no

be available.

Field Name	Ipv6 PXE Support (Available when Network stack Enabled)
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	Enable/Disable Ipv6 PXE Boot Support. If disabled IPV6 PXE boot support will no
	be available.

## 2.2.13 CSM Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Com	patibility Sup	Item help				
						-
CSM	Support		[Dis	sabled]		→←: Select Screen
						<b>↑↓: Select Item</b>
CSM	16 Module Ver	rsion	07.8	32		Enter: Select
						+/- : Change Opt
Optio	n ROM execu	tion				F1: General Help
						F2: Previous Values
Netwo	ork		[Do	not laun	ch]	F3: Optimized Defaults
Storag	ge		[UE	FI]		F4: Save & Reset
Video			[UE	FI]		ESC: Exit
Other	PCI devicesSte	orage	[UE	FI]		ESC: Exit

Field Name	CSM Support
Default Value	[Disabled]
Possible Value	Disabled
	Enabled
Help	Enable/Disable CSM Support.

Field Name	Network (Available when CSM Support Enabled)
Default Value	[Do not launch]
Possible Value	Do not launch
	UEFI
	Legacy
Help	Controls the execution of UEFI and Legacy Network OpROM

Field Name	Storage (Available when CSM Support Enabled)
Default Value	[UEFI]
Possible Value	Do not launch
	UEFI
	Legacy
Help	Controls the execution of UEFI and Legacy Storage OpROM

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Field Name	Video (Available when CSM Support Enabled)
Default Value	[UEFI]
Possible Value	Do not launch
	UEFI
	Legacy
Help	Controls the execution of UEFI and Legacy Video OpROM

Field Name	Other PCI devices (Available when CSM Support Enabled)
Default Value	[UEFI]
Possible Value	Do not launch UEFI
	Legacy
Help	Determines OpROM execution policy for devices other than Network, Storage, or
	Video

## 2.2.14 NVMe Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
NVN	Ae Configura	Item help				
						_
►(Dev	vice)					→←: Select Screen
						<b>↑↓: Select Item</b>
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
						ESC: Exit
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Field Name	(Device)
Comment	Press Enter when selected to go into the associated Sub-Menu.

#### 2.2.15 Intel (R) Rapid Storage Technology

Available configure the RST as down below and after system reboot.

Chipet->PCH-IO-Configuration

->SATA amd RSTT configuration

-> SATA Mode Selection

-> Intel RST Premium With Intel Optane System Acceleration (selected)

Main	Advanced	Chipset	Security	Boot	Save & Exit		
Inte	l (R) RST 16.5	Item help					
► Crea	te RAID Volur	ne					
RAI	D Volumes:					→←: Select Screen	
► Raid	Volume					<b>↑↓: Select Item</b>	
						Enter: Select	
						+/- : Change Opt	
Non	-RAID Physic	al Disks:				F1: General Help	
► HDI	)					F2: Previous Values	
						F3: Optimized Defaults	
						F4: Save & Reset	
						ESC: Exit	
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Field Name	Create RAID Volume
Help	
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Raid Volume
Help	Select to see more information about the RAID Volume.

Field Name	HDD
Help	Select to see more information about the disk.

# 2.3 Chipset Page

Main	Advanced	Chipset	Security	Boot	Save & Exit	
► System	m Agent (SA)	Item help				
► PCH-	IO Configurati	on				-
						→←: Select Screen
						<b>↑↓: Select Item</b>
						Enter: Select
						+/- : Change Opt
						F1: General Help
					F2: Previous Values	
					F3: Optimized Defaults	
						F4: Save & Reset
						ESC: Exit
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Field Name	System Agent (SA) Configuration	
Help	System Agent (SA) Parameters	
Comment	Press Enter when selected to go into the associated Sub-Menu.	
Field Name	PCH-IO Configuration	
Help	PCH Parameters	
Comment	Press Enter when selected to go into the associated Sub-Menu.	

## 2.3.1 System Agent (SA) Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit		
System	Agent (SA) Co	Item help					
Mem	ory Configurati	on					
► Graph	nics Configurat	ion					
► PEG	Port Configurat	tion				→←: Select Screen	
VT-d				[Enable	ed]	<b>↑↓: Select Item</b>	
						Enter: Select	
						+/- : Change Opt	
						F1: General Help	
						F2: Previous Values	
						F3: Optimized Defaults	
						F4: Save & Reset	
						ESC: Exit	
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Field Name	Memory Configuration
Help	Memory Configuration Parameters
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Graphics Configuration
Help	Graphics Configuration
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	PEG Port Configuration
Help	PEG Port Options
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	VT-d
Default Value	[Enabled]
Possible Value	Disabled
	Enabled
Help	VT-d capability

#### 2.3.1.1 Memory Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit	-
Memor	y Configurat	ion				Item help
Memor	y RC Version			0.7.1.72		→←: Select Screen
Memor	y Frequency			2667 Mb	IZ	<b>↑↓: Select Item</b>
Memor	y Timings (tC	CL-tRCD-tR	RP-tRAS)	19-19-19	-43	Enter: Select
DIMM#	¥1			16384 M	IB (DDR4)	+/- : Change Opt
Num	ber of Ranks			2		F1: General Help
Manu	ufacturer			Kingsto	n	F2: Previous Values
DIMM#	<b>#2</b>			16384 M	IB (DDR4)	F3: Optimized Defaults
Num	ber of Ranks			2		F4: Save & Reset
Manu	ufacturer			Kingsto	n	ESC: Exit
DIMM#	#3			16384 M	IB (DDR4)	
Num	ber of Ranks			2		
Manufacturer				Kingsto	n	
DIMM#4				16384 M	IB (DDR4)	
Num	ber of Ranks			2		
Manu	ufacturer			Kingstor	n	
Manu DIMM# Num Manu DIMM# Num Manu	ufacturer #3 ber of Ranks ufacturer #4 ber of Ranks ufacturer			Kingston 16384 M 2 Kingston 16384 M 2 Kingston	n IB (DDR4) n IB (DDR4) n	ESC: Exit

Field Name	Memory RC Version
Help	Memory Reference Code version
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Memory Frequency
Help	Memory speed
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Memory Timings (tCL-tRCD-tRP-tRAS)
Help	Memory detail timings
Comment	This field is not selectable. There is no help text associated with it.

Field Name	DIMM#[1:4]
Help	Memory size/ranks/manufacturer in the DIMM.
Comment	This field is not selectable. There is no help text associated with it.

Main	Advanced	Chipset	Security	Boot	Save & Exit	-
Grap	hics Configura	Item help				
Primary Display			[Auto]			$\rightarrow \leftarrow$ : Select Screen
Interr	al Graphics			[Auto]	. 11	↑↓: Select Item Enter: Select
PSMI SUPPORT DVMT Pre Allocated				[Disable	eaj	+/- : Change Opt
DVMT Total Gfx Mem				[256M]		F1: General Help
► LCD	Control					F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
	V	ersion 2.20.12	71. Copyright	(C) 2018 A	merican Megatren	ds, Inc.

## 2.3.1.2 Graphics Configuration

Field Name	Primary Display
Default Value	[Auto]
Possible Value	Auto / IGFX / PEG
Help	Select which of IGFX/PEG/PCI Graphics device should be Primary Display Or select SG for Switchable Gfx.

Field Name	Internal Graphics
Default Value	[Auto]
Possible Value	Auto / Disabled / Enabled
Help	Keep IGFX enabled based on the setup options.

Field Name	PSMI SUPPORT
Default Value	[Disabled]
Possible Value	Disabled / Enabled
Help	PSMI Enable/Disable

Field Name	DVMT Pre-Allocated
Default Value	[64M]
Possible Value	64M / 12M/ 16M/ 20M/ 24M/ 28M/ (32M/F7)/ 36M/ 40M/ 44M/ 48M/ 52M/ 56M/ 60M
Help	Select DVMT 5.0 Pre-Allocated (Fixed) Graphics Memory size used by the Interna Graphics Device.

Field Name	DVMT Total Gfx Mem
Default Value	[256M]
Possible Value	128MB / 256MB / MAX
Help	Select DVMT5.0 Total Graphic Memory size used by the Internal Graphics Device

Field Name	LCD Control
Help	LCD Control
Comment	Press Enter when selected to go into the associated Sub-Menu.
### 2.3.1.2.1 LCD Control

Main	Advanced	Chipset	Security	Boot	Save & Exit	
LCD	Control					Item help
Prima Secor	ary IGFX Boot ndary IGFX Bo	Display oot Display		[VBIOS [Disable	Default] d]	→←: Select Screen ↑↓: Select Item Enter: Select
LCD Backl	Panel Type			[1920x1 Channel [PWM N	080 24bit Dua. ] Normal]	+/- : Change Opt
LVDS	S Control			[Disable	ed]	F1: General Help
Back	light Brightnes	S		[100%]	1	F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit

Field Name	Primary IGFX Boot Display
Default Value	[VBIOS Default]
Possible Value	VBIOS Default / LVDS(LVDS Control enabled) / DP1 / DP2 / HDMI
Help	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

Field Name	Secondary IGFX Boot Display (Available when Primary IGFX Boot Display not VBIOS Default)
Default Value	[Disabled]
Possible Value	Disabled / LVDS(LVDS Control enabled) / DP1 / DP2 / HDMI3
Help	Select Secondary Display Device

Field Name	LCD Panel Type
Default Value	[1920x1080 24bit Dual Channel]
Possible Value	800x600 18bit Single Channel
	1024x768 18bit Single Channel
	1024x768 24bit Single Channel
	1280x768 18bit Single Channel
	1280x800 24bit Single Channel
	1280x960 18bit Single Channel
	1280x1024 24bit Dual Channel
	1366x768 18bit Single Channel
	1366x768 24bit Single Channel
	1440x900 24bit Dual Channel
	1440x1050 24bit Dual Channel
	1600x900 24bit Dual Channel
	1680x1050 24bit Dual Channel
	1600x1200 24bit Dual Channel
	1920x1080 24bit Dual Channel
	1920x1200 24bit Dual Channel
Help	Select LCD panel used by Internal Graphics Device by selecting the appropriate

Help	Back Light Control Setting
	PWM Normal
Possible Value	PWM Inverted
Default Value	[PWM Normal]
Field Name	Backlight Control
	setup item.

Field Name	LVDS Control
Default Value	[Disabled]
Possible Value	Disabled
	Enabled
Help	Enabled/Disabled the LVDS.

Field Name	Backlight Brightness
Default Value	[100%]
Possible Value	10% / 20% / 30% / 40% / 50% / 60% / 70% / 80% / 90% / 100%
Help	Set VBIOS Brightness.

### 2.3.1.3 PEG Port Configuration

Default Value

Main	Advanced	Chipset	Security	Boot	Save & Exit	
PEG P	ort Configurat	ion	-	-	-	Item help
PEG 0 Max Max	: <b>1:0</b> Link Speed Link Width			Not Pre [Auto] [Auto]	esent	→←: Select Screen ↑↓: Select Item Enter: Select +/- : Change Opt
				[/ tuto]		F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Reset ESC: Exit
	Ve	ersion 2.20.127	1. Copyright	(C) 2018 Ar	merican Megatren	ds, Inc.

Field Name	PEG 0:1:0
Default Value	By detect.
Possible Value	Not Present / Gen1 / Gen2 / Gen3
Comment	This field is not selectable. There is no help text associated with it.

Field Name	Max Link Speed
Default Value	[Auto]
Possible Value	Auto / Gen1 / Gen2 / Gen3
Help	Configure PEG 0:1:0 Max Speed
Field Name	Max Link Width (Suppress if no card detected)

[Auto]

Possible Value	Auto / Force X1 / Force X2 / Force X4 / Force X8
Help	Force PEG link to retrain to X1/2/4/8

Field Name	ASPM (Suppress if no card detected)
Default Value	[Auto]
Possible Value	Disabled / Auto / ASPM L0s / ASPM L1 / ASPM L0sL1
Help	Control ASPM support for the PEG 0. This has no effect if PEG is not the
	currently active device.

### 2.3.2 PCH-IO Configuration

Main	Advanced	Chipset	Security	Boot	Save & Exit	
PCH-IC	) Configuration	on				Item help
► PCI E	Express Config	uration				
► SATA	And RST Con	figuration				
► USB	Configuration					
► HD A	udio Configura	ation				
LAN1	Controller			[Enabled]		
Wake	On Lan1			[Enabled]		→←: Select Screen
LAN2	Controller			[Enabled]		↑↓: Select Item
DeepS	x Power Polici	es		[Disabled	.]	Enter: Select
Restor	e AC Power Lo	OSS		[Power O	ff]	+/- : Change Opt
GPIO	Group Control			[Disabled	.]	F1: General Help
GPIO	0 Control			[Input]		F2: Previous Values
GPIO	1 Control			[Input]		F3: Optimized Defaults
GPIO 2	2 Control			[Input]		F4: Save & Reset
GPIO 3	3 Control			[Input]		ESC: Exit
GPIO 4	4 Control			[Input]		
GPIO :	5 Control			[Input]		
GPIO	6 Control			[Input]		
GPIO '	7 Control			[Input]		
Chassi	s Intrusion			[Disabled	.]	
You	Your computer case had been opened. (Case Open detected)					
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Field Name	PCIE Express Configuration
Help	PCIE Express Configuration settings
Comment	Press Enter when selected to go into the associated Sub-Menu.
Field Name	SATA And RST Configuration
Help	SATA Device Options Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	USB Configuration
Help	USB Configuration settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	HD Audio Configuration
Help	HD Audio Subsystem Configuration Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	LAN1 Controller
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Enable/Disable onboard NIC i219

Field Name	Wake On Lan1
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Enable/Disable integrated LAN to wake the system.

Field Name	LAN2 Controller
Default Value	[Enabled]
Possible Value	Enabled
	Disabled
Help	Enable/Disable onboard NIC i211

Field Name	DeepSx Power Policies
Default Value	[Disabled]
Possible Value	Enabled in S4-S5
	Disabled
Help	configure the DeepSx Mode configuration.

Field Name	Restore AC Power Loss
Default Value	[Power Off]
Possible Value	Power On
	Power Off
Help	Specify what state to go to when power is re-applied after a power failure (G3 state).

Field Name	GPIO Group Control
Default Value	[Disabled]
Possible Value	Enabled
	Disabled
Help	GPIO Header Control Enable/Disable

Field Name	GPIO 0-7 Control (Available when GPIO Group Control Enabled)
Default Value	[Input]
Possible Value	Input / Output High / Output Low
Help	GPIO Header Per-Pin Control

Field Name	Chassis Intrusion

Default Value	[Disabled]
Possible Value	Enabled / Disabled / Reset
Help	Configure Chassis Intrusion

### 2.3.2.1 PCI Express Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit	
PCI	<b>Express</b> Config	Item help				
	<b>D</b>					-
► PCI	Express X4 Slot	t3				
► PCI	Express M.2 E					→←: Select Screen
► PCI	Express M.2 M					<b>↑↓: Select Item</b>
► PCI	Express X1 Slot	t2				Enter: Select
► PCI	Express X4 Slot	t4				+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	PCI Express X4 Slot3		
Help	PCI Express Root Port Settings		
Comment	Press Enter when selected to go into the associated Sub-Menu.		
Field Name	PCI Express M.2 E		
Help	PCI Express Root Port Settings		
Comment	Press Enter when selected to go into the associated Sub-Menu.		
Field Name	PCI Express M.2 M		
Help	PCI Express Root Port Settings		
Comment	Press Enter when selected to go into the associated Sub-Menu.		

Field Name	PCI Express X1 Slot2
Help	PCI Express Root Port Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	PCI Express X4 Slot4
Help	PCI Express Root Port Settings
Comment	Press Enter when selected to go into the associated Sub-Menu.

### 2.3.2.1.1 PCI Express X4 Slot3

Main	Advanced	Chipset	Boot	Security	Save & Exit	
						Item help
PCI Ex	press X4 Slot3			[Enabled]		_
Торо	ology			[Board spec	cific]	→←: Select Screen
ASPM				[Auto]		↑↓: Select Item
L1 Sub	ostates			[L1.1 & L1	.2]	Enter: Select
PCI Sp	eed			[Auto]		+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	PCI Express X4 Slot3
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Control the PCI Express Root Port.

Field Name	Topology
Default Value	[Board specific]
Possible Value	Board specific / Unknown / x1 / x4 / Sata Express / M2
Help	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2

Field Name	ASPM
Default Value	[Auto]
Possible Value	Disabled / L0s / L1 / L0sL1 / Auto
Help	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto
	configure DISABLE - Disables ASPM

Field Name	L1 Substates
Default Value	[L1.1 & L1.2]
Possible Value	Disabled / L1.1 / L1.1 & L1.2
Help	PCI Express L1 Substates settings.

Field Name	PCIe Speed
Default Value	[Auto]
Possible Value	Auto / Gen1 / Gen2 / Gen3
Help	Configure PCIe Speed

### 2.3.2.1.2 PCI Express M.2 E

Main	Advanced	Chipset	Boot	Security	Save & Exit	
						Item help
PCI Express M.2 E				[Enabled]		
Тор	ology			[Board spec	cific]	→←: Select Screen
ASPM				[Auto]		↑↓: Select Item
L1 Sub	ostates			[L1.1 & L1	.2]	Enter: Select
PCI Speed				[Auto]		+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
	١	Version 2.20.12	271. Соруг	right (C) 2018 A	American Megatren	ds, Inc.

Field Name	PCI Express M.2 E
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Control the PCI Express Root Port.

Field Name	Topology
Default Value	[Board specific]
Possible Value	Board specific / Unknown / x1 / x4 / Sata Express / M2
Help	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2

Field Name	ASPM
Default Value	[Auto]
Possible Value	Disabled / L0s / L1 / L0sL1 / Auto
Help	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto
	configure DISABLE - Disables ASPM

Field Name	L1 Substates
Default Value	[L1.1 & L1.2]
Possible Value	Disabled / L1.1 / L1.1 & L1.2
Help	PCI Express L1 Substates settings.

Field Name	PCIe Speed
Default Value	[Auto]
Possible Value	Auto / Gen1 / Gen2 / Gen3
Help	Configure PCIe Speed

### 2.3.2.1.3 PCI Express M.2 M

Main	Advanced	Chipset	Boot	Security	Save & Exit	
						Item help
PCI Exp	ress M.2 M			[Enabled]		
Topol	ogy			[Board spe	cific]	→←: Select Screen
ASPM				[Auto]		<b>↑↓: Select Item</b>
L1 Subs	tates			[L1.1 & L1	1.2]	Enter: Select
PCI Spe	ed			[Auto]		+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	PCI Express M.2 M
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Control the PCI Express Root Port.

Field Name	Topology
Default Value	[Board specific]
Possible Value	Board specific / Unknown / x1 / x4 / Sata Express / M2
Help	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2

Field Name	ASPM
Default Value	[Auto]
Possible Value	Disabled / L0s / L1 / L0sL1 / Auto
Help	Set the ASPM Level:Force L0s - Force all links to L0s State AUTO - BIOS auto
	configure DISABLE - Disables ASPM

Field Name	L1 Substates
Default Value	[L1.1 & L1.2]
Possible Value	Disabled / L1.1 / L1.1 & L1.2
Help	PCI Express L1 Substates settings.

Field Name	PCIe Speed
Default Value	[Auto]
Possible Value	Auto / Gen1 / Gen2 / Gen3
Help	Configure PCIe Speed

### 2.3.2.1.4 PCI Express X1 Slot2

Main	Advanced	Chipset	Boot	Security	Save & Exit	-
						Item help
PCI Exp	ress X1 Slot2			[Enabled]		-
Topol	ogy			[Board spe	cific]	→←: Select Screen
ASPM				[Auto]		<b>↑↓: Select Item</b>
L1 Subs	tates			[L1.1 & L1	1.2]	Enter: Select
PCI Spe	ed			[Auto]		+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	PCI Express X1 Slot2
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Control the PCI Express Root Port.

Field Name	Topology
Default Value	[Board specific]
Possible Value	Board specific / Unknown / x1 / x4 / Sata Express / M2
Help	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2

Field Name	ASPM
Default Value	[Auto]
Possible Value	Disabled / L0s / L1 / L0sL1 / Auto
Help	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto
	configure DISABLE - Disables ASPM

Field Name	L1 Substates
Default Value	[L1.1 & L1.2]
Possible Value	Disabled / L1.1 / L1.1 & L1.2
Help	PCI Express L1 Substates settings.

Field Name	PCIe Speed
Default Value	[Auto]
Possible Value	Auto / Gen1 / Gen2 / Gen3
Help	Configure PCIe Speed

### 2.3.2.1.5 PCI Express X4 Slot4

Main	Advanced	Chipset	Boot	Security	Save & Exit	-	
						Item help	
PCI Ex	press X4 Slot4			[Enabled]			
Торс	ology			[Board specific]		→←: Select Screen	
ASPM				[Auto]		<b>↑↓: Select Item</b>	
L1 Substates				[L1.1 & L1	.2]	Enter: Select	
PCI Speed				[Auto]		+/- : Change Opt	
						F1: General Help	
						F2: Previous Values	
						F3: Optimized Defaults	
						F4: Save & Reset	
						ESC: Exit	
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Field Name	PCI Express X4 Slot4
Default Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Control the PCI Express Root Port.

Field Name	Тороlogy
Default Value	[Board specific]
Possible Value	Board specific / Unknown / x1 / x4 / Sata Express / M2
Help	Identify the SATA Topology if it is Default or ISATA or Flex or DirectConnect or M2

Field Name	ASPM
Default Value	[Auto]
Possible Value	Disabled / L0s / L1 / L0sL1 / Auto
Help	Set the ASPM Level: Force L0s - Force all links to L0s State AUTO - BIOS auto
-	configure DISABLE - Disables ASPM

Field Name	L1 Substates
Default Value	[L1.1 & L1.2]
Possible Value	Disabled / L1.1 / L1.1 & L1.2
Help	PCI Express L1 Substates settings.

Field Name	PCIe Speed
Default Value	[Auto]
Possible Value	Auto / Gen1 / Gen2 / Gen3
Help	Configure PCIe Speed

### 2.3.2.2 SATA And RST Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit	
SATA A	nd RST Configu	Item help				
SATA M	lode Selection			[AHCI]		
PCIe Ste	orage Dev On Por	rt 9		[Not RST 0	Controlled]	→←: Select Screen
						↑↓: Select Item
SATA1				Empty		Enter: Select
SATA2				Empty		+/- : Change Opt
SATA3				Empty		F1: General Help
SATA4				Empty		F2: Previous Values
SATA5				Empty		F3: Optimized Defaults
SATA6				Empty		F4: Save & Reset
						ESC: Exit
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Field Name	SATA Mode Selection
Value	[AHCI]
Possible Value	AHCI / Intel RST Premium With Intel Optane System Acceleration
Help	Determines how SATA controller(s) operate.

Field Name	PCIe Storage Dev On Port 9
Value	[Not RST Controlled]
Possible Value	Not RST Controlled / RST Controlled
Help	Enable/Disable RST Pcie Storage Remapping.

Field Name	SATA1
Value	Display the installed SATA port device.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	SATA2
Value	Display the installed SATA port device.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	SATA3
Value	Display the installed SATA port device.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	SATA4
Value	Display the installed SATA port device.
Comment	This field is not selectable. There is no help text associated with it.

Field Name	SATA5
Value	Display the installed SATA port device.
Comment	This field is not selectable. There is no help text associated with it.
Field Name	SATA6

Value	Display the installed SATA port device.
Comment	This field is not selectable. There is no help text associated with it.

### 2.3.2.3 USB Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit	
USB Configuration		-		Item help		
VIIGI		1		(D): 11 11		
XHCI Compliance Mode		[Disabled]				
xDCI S	Support			[Disabled]		→←: Select Screen
						↑↓: Select Item
Rear IC	O USB3 Gen1 P	ower		[Enabled]		Enter: Select
Rear IO LAN2 USB3 Gen2 Power			[Enabled]		+/- : Change Opt	
Rear IO LAN1 USB3 Gen2 Power		[Enabled]		F1: General Help		
Front IO USB2 Header 1 Power		[Enabled]		F2: Previous Values		
Front IO USB2 Header 2 Power		[Enabled]		F3: Optimized Defaults		
Front IO USB2 Header 3 Power		[Enabled]		F4: Save & Reset		
Front IO USB3 Gen1 Header Power		[Enabled]		ESC: Exit		

Field Name	XHCI Compliance Mode
Value	[Disabled]
Possible Value	Disabled / Enabled
Help	Option to enable Compliance Mode. Default is to disable Compliance Mode.
	Change to enabled for Compliance Mode testing.
Field Name	xDCI Support
Value	[Disabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable xDCI (USB OTG Device).
Field Name	Rear IO USB3 Gen1 Power
Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable Upper/Lower USB ports of HDMI Rack.
Field Name	Rear IO LAN2 USB3 Gen2 Power
Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable Upper/Lower USB ports of i211 RJ45 Rack.
Field Name	Rear IO LAN1 USB3 Gen2 Power
Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable Upper/Lower USB ports of i219 RJ45 Rack.

	AT IN LIGDO LLAAdard, Dawar
Field Maille FIUI	

Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable USB ports of USB2 Header 1.

Field Name	Front IO USB2 Header 2 Power
Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable USB ports of USB2 Header 2.

Field Name	Front IO USB2 Header 3 Power
Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable USB ports of USB2 Header 3.

Field Name	Front IO USB3 Gen1 Header Power
Value	[Enabled]
Possible Value	Disabled / Enabled
Help	Enable/Disable USB3 Gen1 ports of USB3 Header.

### 2.3.2.4 HD Audio Configuration

Main	Advanced	Chipset	Boot	Security	Save & Exit	
HD Au	idio Subsysten	Item help				
						-
HD Au	dio			[Enabled]		
						→←: Select Screen
						<b>↑↓: Select Item</b>
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	HD Audio
Value	[Enabled]
Possible Value	Enabled / Disabled
Help	Control Detection of HD-Audio device.
	Disabled = HDA will be unconditionally disabled
	Enabled = HDA will be unconditionally enabled

## 2.4 Security Page

Main	Advanced	Chipset	Security	Boot	Save & Exit		
Passv	vord Descript	Item help					
		_					
If On	ly the Adminis						
then t	his only limits	access to Se	tup and is				
only a	asked for when	n entering Set	up.				
If ON	LY the User's	password is	set, then this				
is a p	ower on passw	ord and must	t be entered to	)			
boot o	or enter Setup.	In Setup the	User will				
have .	Administrator	rights					
The p	assword lengt	h must be					
in the	following ran	ge:					
Minir	num length			3			
Maxi	mum length			20		→←: Select Screen	
						↑↓: Select Item	
Admin	istrator Passwo	ord				Enter: Select	
User P	assword					+/- : Change Opt	
						F1: General Help	
HDD	Security Conf	figuration:				F2: Previous Values	
HDD S	Security drive					F3: Optimized Defaults	
					17	F4: Save & Reset	
MEU	pdate			[D1sabl	ed]	ESC: Exit	
> Sect	ire Boot						
► Sec	cure Flash Opc						
	Version 2.20 1271. Convright (C) 2018 American Megatrends Inc						
	version 2.20.1271. Copyright (C) 2018 American wregattenus, filc.						

Field Name	Administrator Password
Help	Set Administrator Password
Field Name	User Password
Help	Set User Password.
Field Name	HDD Security drive

Field Name	HDD Security drive
Help	HDD Security Configuration for selected drive
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	ME Update
Value	[Disabled]
Possible Value	Disabled / Enabled
Help	Flash Security Override.

Field Name	Secure Boot
Help	Secure Boot Configuration
Comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Secure Flash Update
Help	Secure Flash Update support
Comment	Press Enter when selected to go into the associated Sub-Menu.

### 2.4.1 HDD Security

Main Advanced	Chipset	Security	Boot	Save & Exit	
HDD Password Descr	ription :				Item help
Allows Access to Set,	Modify and C	lear			
Hard Disk User Pa	ssword				
and Master Passwor	·d.				
User Password is man	datory to Enal	ole HDD Sec	urity.		
If Master password is	installed (opti	onal),			
it can also be used to u	inlock the HD	D.			
If the 'Set User Passwo	ord' option is l	nidden,			
do power cycle to enal	ole the option	again.			
HDD PASSWORD CC	ONFIGURATI	ON:			
					→←: Select Screen
Security Supported	:	Yes	1		<b>↑↓: Select Item</b>
Security Enabled	:	No			Enter: Select
Security Locked	:	No			+/- : Change Opt
Security Frozen	:	No			F1: General Help
HDD User Pwd Status	:	NO	T INSTA	ALLED	F2: Previous Values
					F3: Optimized Defaults
Set User Password					F4: Save & Reset
					ESC: Exit
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Field Name	Set User Password
Help	Set HDD User Password. *** Advisable to Power Cycle System after Setting
	Hard Disk Passwords ***.Discard or Save changes option in setup does not
	have any impact on HDD when password is set or removed. If the 'Set HDD
	User Password' option is hidden, do power cycle to enable the option again

### 2.4.2 Secure Boot

Main Advanced	Chipset	Security	Boot	Save & Exit	
System Mode		Set	up	-	Item help
Secure Boot		[Di	sabled]		→←: Select Screen
		Not	t Active		↑↓: Select Item
					Enter: Select
Secure Boot Mode		[Cu	istom]		+/- : Change Opt
					F1: General Help
Restore Factory Key	'S				F2: Previous Values
► Reset To Setup Mod	e				F3: Optimized Defaults
					F4: Save & Reset
► Key Management					ESC: Exit

Field Name	Secure Boot
Default Value	[Disabled]
Possible Value	Enabled
	Disabled
Help	Secure Boot feature is Active if Secure Boot is Enabled,Platform Key(PK) is enrolled and the System is in User mode.The mode change requires platform reset

Field Name	Secure Boot Mode
Default Value	[Custom]
Possible Value	Standard
	Custom
Help	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

Field Name	Restore Factory Keys
Help	Force System to User Mode. Install factory default Secure Boot key databases

Field Name	Reset to Setup Mode
Help	Delete all Secure Boot key databases from NVRAM

Field Name	Key Management
Help	Enables expert users to modify Secure Boot Policy variables without full authentication
Comment	Enables expert users to modify Secure Boot Policy variables without full authentication

### 2.4.2.1 Key Management

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Vender K	ey			Val	id	Item help
Factory F	Key Provision			[Di	sabled]	
Restore	e Factory Keys	5				
► Reset T	o Setup Mode	;				
► Export	Secure Boot v	ariables				
► Enroll	Efi Image					
Device	Guard ready					
► Remov	e 'UEFI CA' f	from DB				→←: Select Screen
► Restore	DB defaults					<b>↑↓: Select Item</b>
						Enter: Select
Secure Bo	oot variable		Size k	Key#	Key Source	+/- : Change Opt.
Platfor	m Key(PK)		0 0	1	No Key	F1: General Help
Key E	xchange Key		0 0	1	No Key	F2: Previous Values
► Author	rized Signatur	es	0 0	1	No Key	F3: Optimized Defaults
► Forbid	den Signature	S	0 0	1	No Key	F4: Save & Reset
► Author	rized TimeStar	mps	0 0	1	No Key	ESC: Exit
► OsRec	overy Signatu	res	0 0	1	No Key	
		-	-	-		

Field Name	Factory Key Provision
Default Value	[Disabled]
Possible Value	Enabled
	Disabled
Help	Install factory default Secure Boot keys after the platform reset and while the
	System is in Setup mode

Field Name	Restore Factory Keys
Help	Force System to User Mode. Install factory default Secure Boot key databases

Field Name	Reset to Setup Mode
Help	Delete all Secure Boot key databases from NVRAM

Field Name	Export Secure Boot variables
Help	Copy NVRAM content of Secure Boot variables to files in a root folder on a file
	system device

Field Name	Enroll Efi Image
Help	Allow the image to run in Secure Boot mode. Enroll SHA256 Hash certificate of a
-	PE image into Authorized Signature Database (db)

Field Name	Remove 'UEFI CA' from DB
Help	Device Guard ready system must not list 'Microsoft UEFI CA' Certificate in
	Authorized Signature database (db)

Field Name	Restore DB defaults
Help	Restore DB variable to factory defaults

Field Name	Platform Key (PK)			
Default Value	Size:0, Keys:0, Key source: No Keys			
Help	Enroll Factory Defaults or load 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			
comment	Press Enter when selected to go into the associated Sub-Menu "Key			
	Management".			

Field Name	Key Exchange Keys			
Default Value	Size:0, Keys:0, Key source: No Keys			
Help	Enroll Factory Defaults or load 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			
comment	Press Enter when selected to go into the associated Sub-Menu.			

Field Name	Authorized Signatures
Default Value	Size:0, Keys:0, Key source: No Keys
Help	Enroll Factory Defaults or load 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
comment	Press Enter when selected to go into the associated Sub-Menu.

Field Name	Forbidden Signatures			
Default Value	Size:0, Keys:0, Key source: No Keys			
Help	Enroll Factory Defaults or load 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			
comment	Press Enter when selected to go into the associated Sub-Menu.			

Field Name	Authorized TimeStamps			
Default Value	Size:0, Keys:0, Key source: No Keys			
Help	Enroll Factory Defaults or load 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			
comment	Press Enter when selected to go into the associated Sub-Menu.			

Field Name	OsRecovery Signatures			
Default Value	Size:0, Keys:0, Key source: No Keys			
Help	Enroll Factory Defaults or load 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			
comment	Press Enter when selected to go into the associated Sub-Menu.			

### 2.4.3 Secure Flash Update

Built-In BIOS flash tool. To store RX370Q ROM file into the USB drive and select the ROM file path along with the "Path for ROM image". The system will reboot to the "Flash BIOS" page. Select the configuration and get to the "Process with flash update".

Main	Advanced	Chipset	Security	Boot	Save & Exit	
► Path for ROM Image						Item help
Notice :						
ROM Ir	nage must in t	he root folder	of storage de	evice.		→←: Select Screen
File nan	ne must match	with current	BIOS project	t.		<b>↑↓: Select Item</b>
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
		Version 2 20 12	71 Convright	(C) 2018 A	merican Megatren	ds Inc

Main	Advanced	Chipset	Security	Boot	Save & Exit	Recovery
Please	select block ye	ou want to u	pdate			Item help
Reset N	JVRAM			[Disabled]		-
► Proc	cess with flash	update				
						→←: Select Screen
						↑↓: Select Item
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
		Version 2.20.1	271. Convrig	nt (C) 2018 A	merican Megatren	ds. Inc.

Field Name	Reset NVRAM	
Default Value	[Disabled]	
Possible Value	Enabled	
	Disabled	
Help	Set this option to reset NVRAM to default values	

Field Name	Process with flash update
Help	Select this to start flash update

## 2.5 Boot Page

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Boot Co	onfiguration					Item help
Setup Pr	ompt Timeout			1		-
Bootup	NumLock State	;		[On]		
Boot mo	ode select			[UEFI]		
FIXED	BOOT ORDE	R Priorities				
Boot Op	tion #1			USB F	loppy]	
Boot Op	tion #2			[CD/D	VD]	
Boot Op	tion #3			[USB C	CD/DVD]	→←: Select Screen
Boot Op	tion #4			[Hard I	Disk]	<b>↑↓: Select Item</b>
Boot Op	tion #5			[USB K	Ley]	Enter: Select
Boot Op	tion #6			[USB H	lard Disk]	+/- : Change Opt.
Boot Op	tion #7			[Netwo	rk]	F1: General Help
Boot Op	tion #8			[UEFI ]	AP:EFI:Built-in	F2: Previous Values
				EFI Shel	l] (UEFI Only)	
						F3: Optimized Defaults
						F4: Save & Reset
►(UEFI)	USB Floppy Driv	ve BBS Prioritie	28			ESC: Exit
►(UEFI)	CDROM/DVD D	Prive BBS Prior	ities			
►(UEFI)	USB CDROM/D	VD Drive BBS	Priorities			
►(UEFI)	Hard Disk Drive	<b>BBS</b> Priorities				
► (UEFI)	USB Key Drive I	BBS Priorities				
►(UEFI)	USB Hard Disk I	Orive BBS Prio	rities			
► (UEFI)	Network Drive B	<b>BS</b> Priorities				
► UEFI.	Application Boot l	Priorities (UEF	[ Only)			
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Field Name	Setup Prompt Timeout
Default Value	1
Possible Value	1~65535
Help	Number of seconds to wait for setup activation key. 65535(0xFFFF) means indefinite waiting.
Field Name	Bootup NumLock State
Default Value	[On]

Default value	[ [On]
Possible Value	On
	Off
Help	Select the keyboard NumLock state

Field Name	Boot mode select
Default Value	[UEFI]
Possible Value	LEGACY
	UEFI
Help	BIOS boot mode.
	Windows 10 select [UEFI]
	DOS select [Legacy]

Field Name	Boot Option #1
Default Value	[USB Floppy]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , Network, Disabled, (UEFI Only)UEFI AP:UEFI: Build-in EFI Shell
Help	Sets the system boot order

Field Name	Boot Option #2
Default Value	[CD/DVD]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , Network, Disabled, (UEFI Only)UEFI AP:UEFI: Build-in EFI Shell
Help	Sets the system boot order

Field Name	Boot Option #3
Default Value	[USB CD/DVD]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk ,
	Network, Disabled, (UEFI Only)UEFI AP:UEFI: Build-in EFI Shell
Help	Sets the system boot order

Field Name	Boot Option #4
Default Value	[Hard Disk]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , Network, Disabled, (UEFI Only)UEFI AP:UEFI: Build-in EFI Shell
Help	Sets the system boot order

Field Name	Boot Option #5
Default Value	[USB Key]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , Network, Disabled, (UEFI Only)UEFI AP:UEFI: Build-in EFI Shell
Help	Sets the system boot order

Field Name	Boot Option #6
Default Value	[USB Hard Disk]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , Network, Disabled, (UEFI Only)UEFI AP:UEFI: Build-in EFI Shell
Help	Sets the system boot order

Field Name	Boot Option #7
Default Value	[Network]
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk , Network, Disabled, (UEFI Only)UEFI AP:UEFI: Build-in EFI Shell
Help	Sets the system boot order

Field Name	Boot Option #8 (UEFI Only)			
Default Value	[UEFI AP:EFI:Built-in EFI Shell]			
Possible Value	USB Floppy, CD/DVD, USB CD/DVD, Hard Disk , USB Key, USB Hard Disk ,			
	Network, Disabled, (UEFI Only)UEFI AP:UEFI: Build-in EFI Shell			
Help	Sets the system boot order			
Field Name	(UEFI) USB Floppy Drive BBS Priorities			
Help	Specifies the Boot Device Priority sequence from available USB Floppy Drives.			
Comment	Press Enter when selected to go into the associated Sub-Menu.			
Field Name	(UEFI) CDROM/DVD ROM Drive BBS Priorities			
Help	Specifies the Boot Device Priority sequence from available CDROM/DVD Drive			
Comment	Press Enter when selected to go into the associated Sub-Menu.			
Field Name	(UEFI) USB CDROM/DVD ROM Drive BBS Priorities			
Help	Specifies the Boot Device Priority sequence from available USB CDROM/DVD			
	Drives.			
Comment	Press Enter when selected to go into the associated Sub-Menu.			
<b></b>				
Field Name	(UEFI) Hard Disk Drive BBS Priorities			
Help	Specifies the Boot Device Priority sequence from available Hard Disk Drives.			
Comment	Press Enter when selected to go into the associated Sub-Menu.			
	(UEFI) USB KEY Drive BBS Priorities			
Help	Specifies the Boot Device Priority sequence from available USB Key Drives.			
Comment	Press Enter when selected to go into the associated Sub-Menu.			
	(UEFI) USB Hard Disk Drive BBS Priorities			
Help	Specifies the Boot Device Priority sequence from available USB Hard Disk Drives			
Comment	Press Enter when selected to go into the associated Sub-Menu.			
	(UEFI) NEI WORK Drive BBS Priorities			
	Specifies the Boot Device Priority sequence from available NETWORK Drives.			
Comment	Press Enter when selected to go into the associated Sub-Mehu.			
Eald Name	UEELAnnicotion Doot Drighting (UEELOnto)			
I I I I I I I I I I I I I I I I I I I	Specifies the Dest Device Driving Accuracy from evolution LIEFL Acculiants			
Comment	Specifies the Boot Device Priority sequence from available UEFI Application.			
Comment	Press Enter when selected to go into the associated Sub-Menu.			

## 2.6 Save & Exit Page

Main	Advanced	Chipset	Security	Boot	Save & Exit	
Save Options						Item help
Discard Changes and Exit						-
Save Changes and Reset						
Discard Changes and Reset						
Restore	Defaults					
						→←: Select Screen
						↑↓: Select Item
						Enter: Select
						+/- : Change Opt
						F1: General Help
						F2: Previous Values
						F3: Optimized Defaults
						F4: Save & Reset
						ESC: Exit
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Field Name	Discard Changes and Exit			
Help	Exit system setup with without saving any changes.			
Field Name	Save Changes and Reset			
Help	Reset the system after saving the changes.			
Field Name	Discard Changes and Rest			
Help	Reset system setup without saving any changes.			
Field Name	Restore Defaults			
Help	Restore/Load Default values for all the setup options.			

# **Drivers Installing Note**

### DCH drivers support for windows 10 (and later)

- After a driver has been updated to a Windows DCH Driver, it isn't recommended rolling back to old drivers as it involves a complex process that could result in system instability or installing failure issue and especially pertinent to graphics drivers.
- DCH drivers have no longer supported application in drivers' package. You could check on "Microsoft Store" if need it.



### 1 : Microsoft Windows update.

DO the **Microsoft Windows update** before to install BCM drivers for RX370Q or you might experience failure on some drivers installation.

#### 2 : How to do that.

You could through the LAN2 port for the Microsoft Windows update .