



NEXCOM International Co., Ltd.

IoT Automation Solutions Business Unit

HMI Panel PC

eLITE610

User Manual

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PREFACE

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Disclaimer

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Acknowledgements

eLITE610 is a trademark of NEXCOM International Co., Ltd. All other product names mentioned herein are registered trademarks of their respective owners.

Regulatory Compliance Statements

This section provides the FCC compliance statement for Class B devices and describes how to keep the system CE compliant.

Declaration of Conformity

FCC

This equipment has been tested and verified to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area (domestic environment) is likely to cause harmful interference, in which case the user will be required to correct the interference (take adequate measures) at their own expense.

CE

The product(s) described in this manual complies with all applicable European Union (CE) directives if it has a CE marking. For computer systems to remain CE compliant, only CE-compliant parts may be used. Maintaining CE compliance also requires proper cable and cabling techniques.

RoHS Compliance



NEXCOM RoHS Environmental Policy and Status Update

NEXCOM is a global citizen for building the digital infrastructure. We are committed to providing green products and services, which are compliant with European Union RoHS (Restriction on Use of Hazardous Substance in Electronic Equipment) directive 2011/65/EU, to be your trusted green partner and to protect our environment.

RoHS restricts the use of Lead (Pb) < 0.1% or 1,000ppm, Mercury (Hg) < 0.1% or 1,000ppm, Cadmium (Cd) < 0.01% or 100ppm, Hexavalent Chromium (Cr6+) < 0.1% or 1,000ppm, Polybrominated biphenyls (PBB) < 0.1% or 1,000ppm, and Polybrominated diphenyl Ethers (PBDE) < 0.1% or 1,000ppm.

In order to meet the RoHS compliant directives, NEXCOM has established an engineering and manufacturing task force to implement the introduction of green products. The task force will ensure that we follow the standard NEXCOM development procedure and that all the new RoHS components and new manufacturing processes maintain the highest industry quality levels for which NEXCOM are renowned.

The model selection criteria will be based on market demand. Vendors and suppliers will ensure that all designed components will be RoHS compliant.

How to recognize NEXCOM RoHS Products?

For existing products where there are non-RoHS and RoHS versions, the suffix "(LF)" will be added to the compliant product name.

All new product models launched after January 2013 will be RoHS compliant. They will use the usual NEXCOM naming convention.

Warranty and RMA

NEXCOM Warranty Period

1. NEXCOM makes products in accordance with the Industry standard and, NEXCOM warrants that all her Industry-grade IPC and System products will be free from defect in neither material nor workmanship for twenty-four (24) months from the day of invoice issued.
2. For NEXCOM Panel PC product lines (the IPPC, APPC and MPPC series), they are also guaranteed against defect in materials and workmanship for the period of twenty-four (24) months in their motherboard design. For 3rd party parts, it follows with original suppliers' standard: 12 months for battery pack and LCD, 24 months for adaptor / add on modules (including GSM module, RFID module, and antenna).
3. If NEXCOM determines customer's warranty claim is valid, NEXCOM will repair or replace product(s) without additional charge for parts and labor. An extended Warranty Program will extend the warranty period of the product accordingly.

Warranty Coverage

The warranty applies only to products manufactured or distributed by NEXCOM and her subsidiaries. This warranty covers all the products/ shipments except for:

1. Any claimed defect, products that have been repaired or modified by persons who have not been authorized by NEXCOM or, products which have been subjected to misuse, abuse, accident, improper installation, or usage not in accordance with the product instruction. NEXCOM assumes no liability as a consequence of such events under the term of this warranty.

One example is the replacement of Tablet's or Hand-held's LCD display due to scratching stains or other degradation; these will not be covered under this warranty.

2. Damages caused by customers' delivery/shipping of the product or, product failure resulted from electrical power/voltage shock, or, installation of parts/components which are not supplied/approved by NEXCOM in advance.
3. Third-party products:
 - a. Software, such as the device drivers,
 - b. External devices such as HDD, printer, scanner, mouse, LCD panel, battery, and so on,
 - c. Accessory/parts that were not approved by NEXCOM and,
 - d. Accessory/parts were added to products after they were shipped from NEXCOM.

Product will be treated as "Out of Warranty " if:

- a. It expires the warranted 24 months period from the day it was purchased.
- b. It had been altered by persons other than an authorized NEXCOM service person or, which have been subjected to misuse, abuse, accident, or improper installation.
- c. It doesn't have the original NEXCOM Serial Number labeling for NEXCOM's warranty period identification or, tracking.

RMA that NEXCOM has determined not to be covered by the warranty will be charged the NEXCOM Standard Repair Fee for the repairing. If a RMA is determined to be not repairable, customer will be notified and product(s) may be returned to customer at their request; a minimum service fee may be charged however.

NEXCOM Return Merchandise Authorization (RMA) Procedure

For the RMA (Return Merchandise Authorization) shipment, customer is responsible for packaging and shipping the product to the designated NEXCOM service sites, with shipping charges prepaid by the customer. The original NEXCOM shipping box should be used whenever possible. NEXCOM shall pay for the return of the product to the customer's location. In case of expedited shipping request, an extra service charge shall be assessed and the customer is responsible for this extra return shipping charge.

1. Customers should enclose the "NEXCOM RMA Service Form" with the returned products.
2. Customers need to write down all the information related to the problem on the " NEXCOM RMA Service Form " when applying for the RMA service; information will help to understand the problem, including the fault description, on-screen messages, and pictures if possible.
3. Customers could send back the faulty product with or without the accessories and key parts such as the CPU and DIMM. If the key parts are included, please be noted clearly within the return form. NEXCOM takes no responsibility for the parts which are not listed in the return form.
4. Customers hold the responsibility to ensure that the packing of defective products is durable enough to be resistant against further damage due to the transportation; damage caused by transportation is treated as " Out of Warranty " under our Warranty specification.
5. RMA product(s) returned by NEXCOM to any location other than the

customer registered delivery address will incur an extra shipping charge, the customer is responsible for paying the extra shipping charges, duties, and taxes of this shipment.

Product Repairing

1. NEXCOM will repair defective products covered under this limited warranty that are returned to NEXCOM; if products do prove to be defective, they will be repaired during their warranty period unless other warranty terms have been specified.
2. NEXCOM owns all parts removed from repaired products.
3. NEXCOM will use parts made by various manufacturers in performing the repair.
4. The repaired products will be warranted subjected to the original warranty coverage and period only.
5. For products returned as defective but, proved to be no defect/fault after the RMA process, NEXCOM reserves the right to claim for a NDF (No Defect Found) Service Charge.
6. NEXCOM will issue RMA Report which included Repair Detailed Information to the customer when the defective products were repaired and returned.
7. In addition to the above, NEXCOM may authorize Independent/Third-party suppliers to repair the defective products for NEXCOM.

Out Of Warranty Service

There will be a service charge from NEXCOM for the “Out Of Warranty” product service; they are the Basic Diagnostic Service Fee and the Advanced Component Replacement Fee respectively. And, if the product can not be repaired, NEXCOM will either return the product to the customer or, just scrap it, followed by customer’s instruction.

1. Testing and Parts Replacement

NEXCOM will have the following Handling Charges for those OoW products that returned:

- a. Basic Labor Cost and Testing Fee: as Table listed.
 - b. Parts Fee: NEXCOM will charge for main IC chipsets such as the N.B., S.B., Super-IO, LAN, Sound, Memory, and so on.
 - c. 3rd-party Device Fee: products replacement for CPU, DIMM, HDD, Chassis, and UPS.
2. Out of Warranty product will have a three months warranty for the fixed issues. If the product failed with different problem within 3 months, they will still incur the service charge of “Out of Warranty”.
3. Out of Warranty “products will not be repaired without a signed PI from the customer, the agreement of the repair process.

Add-on card, 3rd Party Device and board level repair cost higher than new product prices, customer can abandon to sign PI to repair and, please contact with sales to buy new products.

Safety Information

Before installing and using the device, note the following precautions:

- Read all instructions carefully.
- Do not place the unit on an unstable surface, cart, or stand.
- Follow all warnings and cautions in this manual.
- When replacing parts, ensure that your service technician uses parts specified by the manufacturer.
- Avoid using the system near water, in direct sunlight, or near a heating device.
- The load of the system unit does not solely rely for support from the rackmounts located on the sides. Firm support from the bottom is highly necessary in order to provide balance stability.
- Maximum surrounding air temperature should not exceed 50°C.
- For use in Pollution Degree 2 Environment.
- Follow all mounting guidelines and instructions on Chapter 3 of the manual.
- Suitable for mounting on the flat surface of Type 2 and Type 4X indoor use only enclosure.



Caution:
FOR USE IN A CONTROLLED ENVIRONMENT, REFER TO
MANUAL FOR ENVIRONMENTAL CONDITIONS.

Attention:
POUR UTILISATION EN ATMOSPHERE CONTROLEE,
CONSULTEZ LA NOTICE TECHNIQUE.

Installation Recommendations

Ensure you have a stable, clean working environment. Dust and dirt can get into components and cause a malfunction. Use containers to keep small components separated.

Adequate lighting and proper tools can prevent you from accidentally damaging the internal components. Most of the procedures that follow require only a few simple tools, including the following:

- A Philips screwdriver
- A flat-tipped screwdriver
- A grounding strap
- An anti-static pad

Using your fingers can disconnect most of the connections. It is recommended that you do not use needle-nose pliers to disconnect connections as these can damage the soft metal or plastic parts of the connectors.

Safety Precautions

1. Read these safety instructions carefully.
2. Keep this User Manual for later reference.
3. Disconnect this equipment from any AC outlet before cleaning. Use a damp cloth. Do not use liquid or spray detergents for cleaning.
4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
5. Keep this equipment away from humidity.
6. Put this equipment on a stable surface during installation. Dropping it or letting it fall may cause damage.
7. The openings on the enclosure are for air convection to protect the equipment from overheating. **DO NOT COVER THE OPENINGS.**
8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
9. Place the power cord in a way so that people will not step on it. Do not place anything on top of the power cord. Use a power cord that has been approved for use with the product and that it matches the voltage and current marked on the product's electrical range label. The voltage and current rating of the cord must be greater than the voltage and current rating marked on the product.
10. All cautions and warnings on the equipment should be noted.
11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
12. Never pour any liquid into an opening. This may cause fire or electrical shock.
13. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
14. If one of the following situations arises, get the equipment checked by service personnel:
 - a. The power cord or plug is damaged.
 - b. Liquid has penetrated into the equipment.
 - c. The equipment has been exposed to moisture.
 - d. The equipment does not work well, or you cannot get it to work according to the user's manual.
 - e. The equipment has been dropped and damaged.
 - f. The equipment has obvious signs of breakage.
15. Do not place heavy objects on the equipment.
16. The unit uses a three-wire ground cable which is equipped with a third pin to ground the unit and prevent electric shock. Do not defeat the purpose of this pin. If your outlet does not support this kind of plug, contact your electrician to replace your obsolete outlet.
17. **CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER. DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.**

Technical Support and Assistance

1. For the most updated information of NEXCOM products, visit NEXCOM's website at www.nexcom.com.
2. For technical issues that require contacting our technical support team or sales representative, please have the following information ready before calling:
 - Product name and serial number
 - Detailed information of the peripheral devices
 - Detailed information of the installed software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wordings of the error messages

Warning!

1. Handling the unit: carry the unit with both hands and handle it with care.
2. Maintenance: to keep the unit clean, use only approved cleaning products or clean with a dry cloth.

Conventions Used in this Manual



Warning:

Information about certain situations, which if not observed, can cause personal injury. This will prevent injury to yourself when performing a task.



Caution:

Information to avoid damaging components or losing data.



Note:

Provides additional information to complete a task easily.



Safety Warning: This equipment is intended for installation in a Restricted Access Location only.

Global Service Contact Information

Headquarters

NEXCOM International Co., Ltd.

9F, No. 920, Chung-Cheng Rd.,
ZhongHe District, New Taipei City, 23586,
Taiwan, R.O.C.

Tel: +886-2-8226-7786

Fax: +886-2-8226-7782

www.nexcom.com

America

USA

NEXCOM USA

2883 Bayview Drive,
Fremont CA 94538, USA

Tel: +1-510-656-2248

Fax: +1-510-656-2158

Email: sales@nexcom.com

www.nexcom.com

Asia

Taiwan

NEXCOM Intelligent Systems

Taipei Office

13F, No.920, Chung-Cheng Rd.,
ZhongHe District,
New Taipei City, 23586, Taiwan, R.O.C.

Tel: +886-2-8226-7796

Fax: +886-2-8226-7792

Email: sales@nexcom.com.tw

www.nexcom.com.tw

NEXCOM Intelligent Systems

Taichung Office

16F, No.250, Sec. 2, Chongde Rd.,
Beitun Dist.,

Taichung City 406, R.O.C.

Tel: +886-4-2249-1179

Fax: +886-4-2249-1172

Email: sales@nexcom.com.tw

www.nexcom.com.tw

Japan

NEXCOM Japan

9F, Tamachi Hara Bldg.,
4-11-5, Shiba Minato-ku,
Tokyo, 108-0014, Japan

Tel: +81-3-5419-7830

Fax: +81-3-5419-7832

Email: sales@nexcom-jp.com

www.nexcom-jp.com

China

NEXCOM China

1F & 2F, Block A, No. 16 Yonyou Software Park,
No. 68 Beiqing Road, Haidian District,
Beijing, 100094, China

Tel: +86-10-5704-2680

Fax: +86-10-5704-2681

Email: sales@nexcom.cn

www.nexcom.cn

NEXCOM Shanghai

Room 603/604, Huiyinmingzun Plaza Bldg., 1,
No.609, Yunlin East Rd.,
Shanghai, 200333, China
Tel: +86-21-5278-5868
Fax: +86-21-3251-6358
Email: sales@nexcom.cn
www.nexcom.cn

NEXCOM Surveillance Technology Corp.

Room202, Building B,
the GuangMing Industrial Zone Zhonghua Rd.,
Minzhi Street, Longhua District,
Shenzhen 518131, China
Tel: +86-755-8364-7768
Fax: +86-755-8364-7738
Email: steveyang@nexcom.com.tw
www.nexcom.cn

NEXCOM United System Service

Hui Yin Ming Zun Building Room 1108,
Building No. 11, 599 Yunling Road, Putuo District,
Shanghai, 200062, China
Tel: +86-21-6125-8282
Fax: +86-21-6125-8281
Email: frankyang@nexcom.cn
www.nexcom.cn

Europe**United Kingdom****NEXCOM EUROPE**

10 Vincent Avenue,
Crownhill Business Centre,
Milton Keynes, Buckinghamshire
MK8 0AB, United Kingdom
Tel: +44-1908-267121
Fax: +44-1908-262042
Email: sales.uk@nexcom.eu
www.nexcom.eu

Italy**NEXCOM ITALIA S.r.l**

Via Lanino 42,
21047 Saronno (VA), Italia
Tel: +39 02 9628 0333
Fax: +39 02 9625 570
Email: nexcomitalia@nexcom.eu
www.nexcomitalia.it

Ordering Information

The following provides ordering information for eLITE610.

Barebone

- **eLITE610 (P/N: 10IE0061000X0)**

10.1" widescreen WSVGA with Intel® Atom™ x5-E3930, Ethernet and USB 3.0 interfaces, JMobile run-time

- **eLITE610 (P/N: 10IE0061001X0)**

10.1" widescreen WSVGA with Intel® Atom™ x5-E3930, Ethernet and USB 3.0 interfaces

CHAPTER 1: PRODUCT INTRODUCTION

eLITE610

Overview



Key Features

- 10.1" TFT color display, LED backlight
- 1024 x 600 pixel (WSVGA) resolution, 16.7M colors
- Resistive touchscreen
- 2x Giga LAN and 2x USB 3.0
- 1x RS232/422/485 communication port
- Extremely cost efficient HMI with plastic chassis
- Slim design, mounting depth less than 30mm
- System frame ground protection (GPE) design

Specifications

Panel

- 10.1", 16:9, WSVGA, 1024 x 600
- Luminance: 240 cd/m² typ.
- LCD color: 16.7M
- Active display area: 10.1" diagonal
- Backlight: LED

Operator Interface

- Touch: resistive

System Resources

- CPU: Intel® Atom™ x5-E3930 processor
- Operating System: Windows 10 Enterprise (64-bit)
- RAM: 4GB DDR3L
- Flash: 32 GB
- Real time clock: Yes
- Buzzer: Yes

Interface

- Ethernet: 2x 10/100/1000Mbit
- USB: 2x USB 3.0
- Serial: 1x RS232/422/485 BIOS configuration

Ratings

- Power supply voltage: 24 Vdc (19.2 to 28.8 Vdc)
- Current consumption: 1.64A at 24Vdc (max.)
- Weight: Approx. 1.37kg

Environmental Conditions

- Operating temperature: -5°C to 50°C
- Storage temperature: -20°C to 70°C
- Operating and storage humidity: 5%~85% relative humidity, non-condensing
- Panel/VESA mounting
- Protection class: IP66 (front), IP20 (rear)

Dimensions

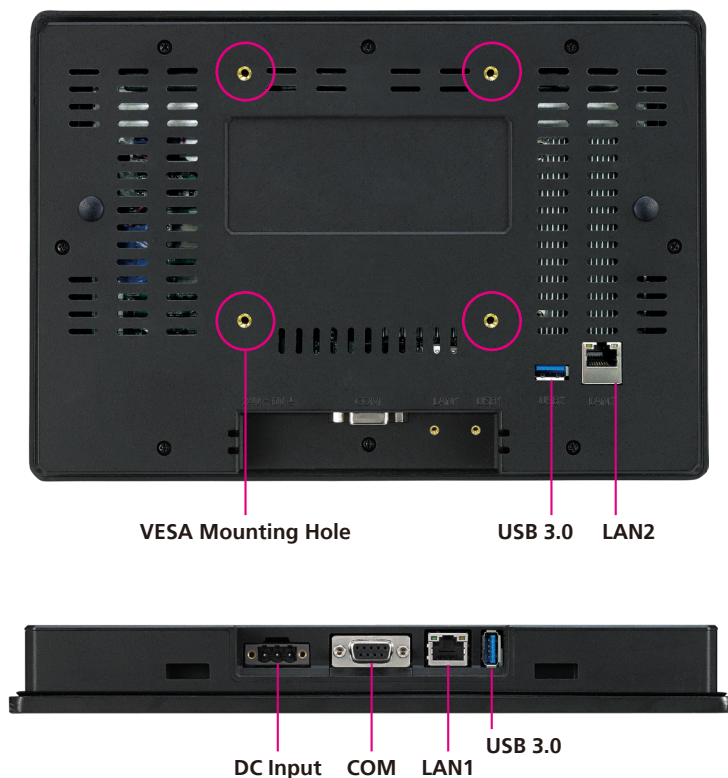
- Faceplate LxH: 282 x 197mm
- Cutout AxH: 271 x 186mm
- Depth D+T: 29 + 6mm

Certifications

- CE (Emission EN61000-6-4; Immunity EN61000-6-2 for installation in industrial environments)
- FCC

Knowing Your eLITE610

Rear and Rear Bottom Side



USB 3.0

USB 3.0 ports used to connect USB 3.0/2.0/1.1 devices.

COM Port

Supports RS232/422/485 compatible serial devices through BIOS setting.

DC Input

Used to plug a DC power cord.

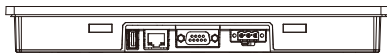
LAN 1 and LAN 2

Used to connect the system to a local area network.

VESA Mounting Holes

These are the mounting holes for VESA mount (100x100mm).

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CHAPTER 2: JUMPERS AND CONNECTORS

This chapter describes how to set the jumpers and connectors on the eLITE610 motherboard.

Before You Begin

- Ensure you have a stable, clean working environment. Dust and dirt can get into components and cause a malfunction. Use containers to keep small components separated.
- Adequate lighting and proper tools can prevent you from accidentally damaging the internal components. Most of the procedures that follow require only a few simple tools, including the following:
 - A Philips screwdriver
 - A flat-tipped screwdriver
 - A set of jewelers screwdrivers
 - A grounding strap
 - An anti-static pad
- Using your fingers can disconnect most of the connections. It is recommended that you do not use needle-nosed pliers to disconnect connections as these can damage the soft metal or plastic parts of the connectors.
- Before working on internal components, make sure that the power is off. Ground yourself before touching any internal components, by touching a metal object. Static electricity can damage many of the electronic components. Humid environments tend to have less static electricity than

dry environments. A grounding strap is warranted whenever danger of static electricity exists.

Precautions

Computer components and electronic circuit boards can be damaged by discharges of static electricity. Working on computers that are still connected to a power supply can be extremely dangerous.

Follow the guidelines below to avoid damage to your computer or yourself:

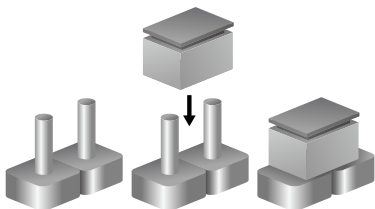
- Always disconnect the unit from the power outlet whenever you are working inside the case.
- If possible, wear a grounded wrist strap when you are working inside the computer case. Alternatively, discharge any static electricity by touching the bare metal chassis of the unit case, or the bare metal body of any other grounded appliance.
- Hold electronic circuit boards by the edges only. Do not touch the components on the board unless it is necessary to do so. Don't flex or stress the circuit board.
- Leave all components inside the static-proof packaging that they shipped with until they are ready for installation. Use correct screws and do not over tighten screws.

Jumper Settings

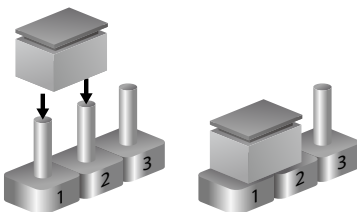
A jumper is the simplest kind of electric switch. It consists of two metal pins and a cap. When setting the jumpers, ensure that the jumper caps are placed on the correct pins. When the jumper cap is placed on both pins, the jumper is short. If you remove the jumper cap, or place the jumper cap on just one pin, the jumper is open.

Refer to the illustrations below for examples of what the 2-pin and 3-pin jumpers look like when they are short (on) and open (off).

Two-Pin Jumpers: Open (Left) and Short (Right)

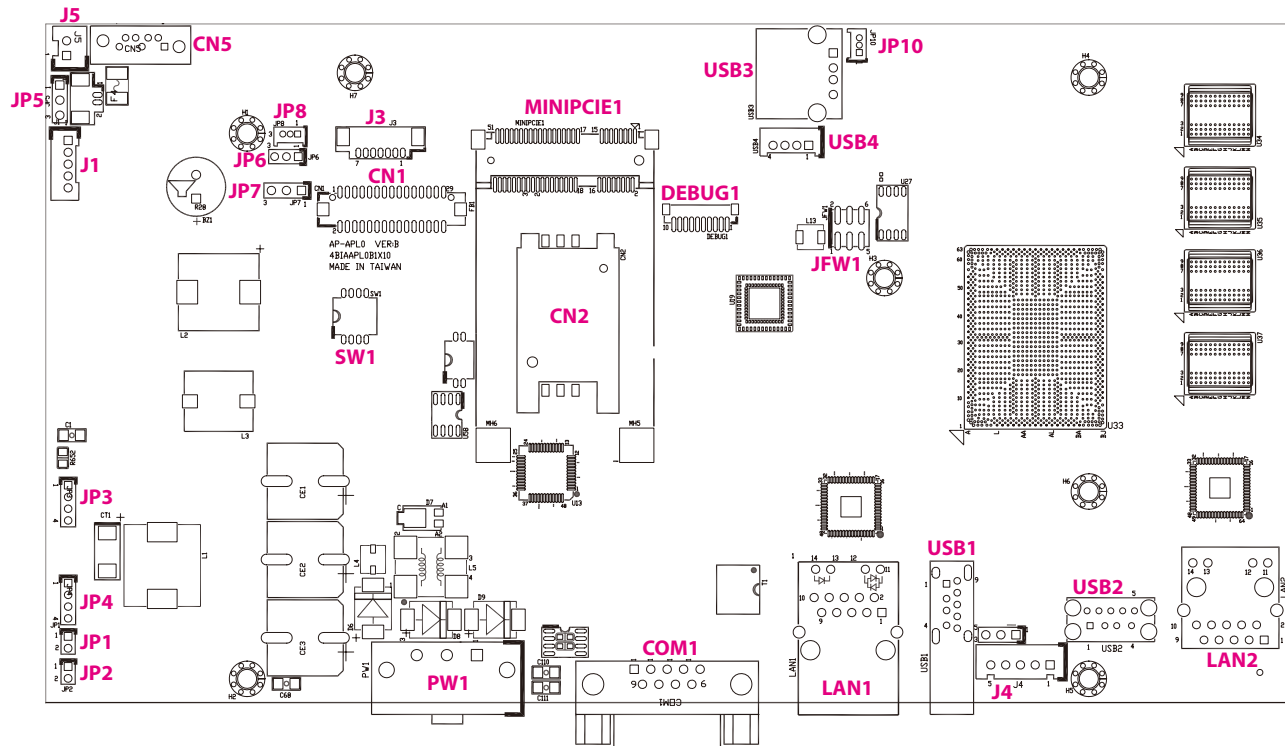


Three-Pin Jumpers: Pins 1 and 2 are Short

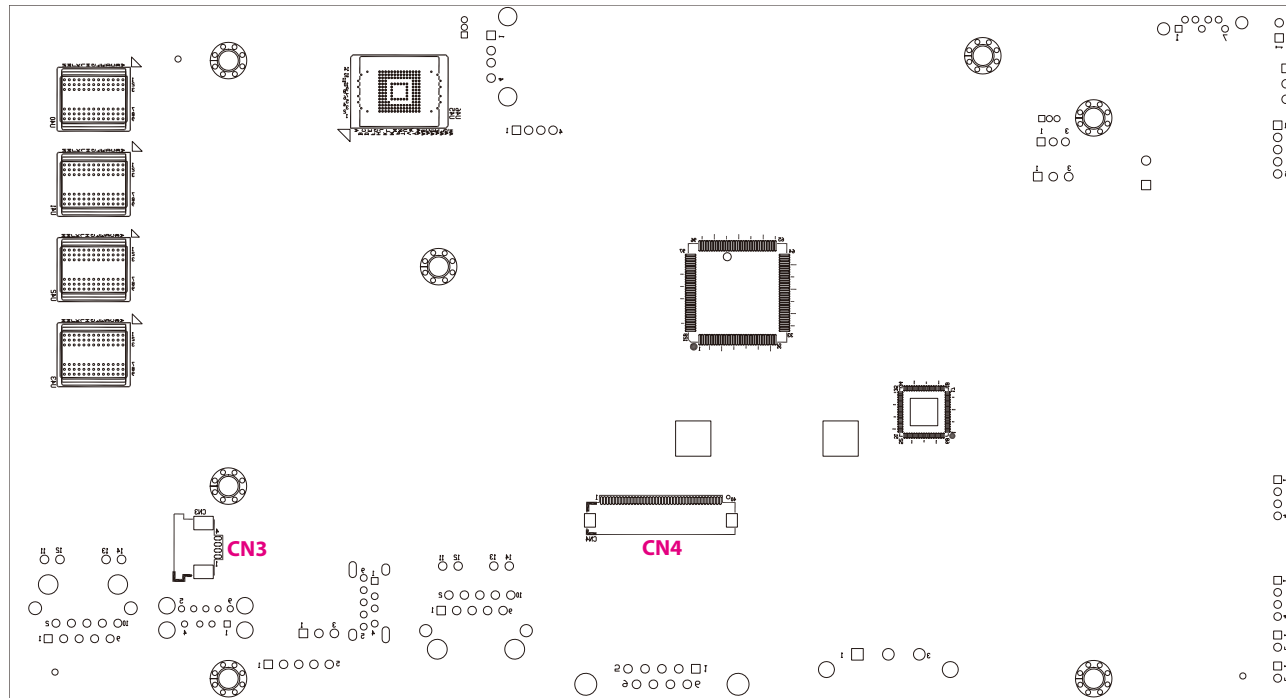


Locations of the Jumpers and Connectors

Top View



Bottom View





Jumpers and DIP Switch Settings

RTC Clear Select

Connector type: 1x3 3-pin header, 2.54mm pitch
Connector location: JP5



Pin	Settings
1-2 On	Normal
2-3 On	Clear BIOS

1-2 On: default

Pin	Definition
1	NC
2	RTC Power
3	GND

AT/ATX Selection

Connector type: 1x3 3-pin header, 2.0mm pitch
Connector location: JP6



Pin	Settings
1-2 On	AT Mode
2-3 On	ATX Mode

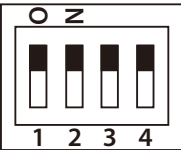
2-3 On: default

Pin	Definition
1	AUTO (AT MODE)
2	PWRBT In
3	Manual (ATX MODE)



Panel Resolution Select

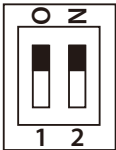
Connector type: 4-pin On/Off Switch
Connector location: SW1



SW1-1	SW1-2	SW1-3	SW1-4	Resolution
OFF	OFF	ON	ON	1024 x 600 (WSVGA)

PWM/Backlight Enable Select

Connector type: 2-pin On/Off Switch
Connector location: SW2



Type	SW2-1	SW2-2
LCDPWM_REVERSE	ON	OFF
BACKLIGHT_REVERSE	OFF	ON

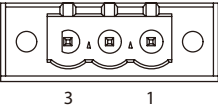
SW2 (OFF, OFF): default

Connector Pin Definitions

External I/O Interface

DC Power Input

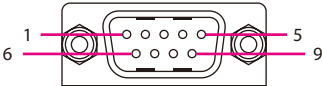
Connector type: 1x3 3-pin terminal block
Connector location: PW1



Pin	Definition
1	Power in +
2	Power in -
3	Mechanical GND

COM1 Port

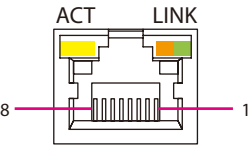
Connector type: DB-9 port, 9-pin D-Sub
Connector location: COM1



Pin	Definition	Pin	Definition
1	COM1_DCD	2	COM1_RXD
3	COM1_TXD	4	COM1_DTR
5	COM1_GND	6	COM1_DSR
7	COM1_RTS	8	COM1_CTS
9	COM1_RI		

LAN1 Port

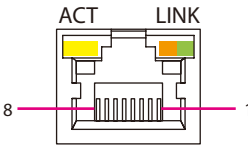
Connector type: RJ45 port with LEDs
Connector location: LAN1



Pin	Definition	Pin	Definition
1	LAN_MDI0P_1	2	LAN_MDI0N_1
3	LAN_MDI1P_1	4	LAN_MDI1N_1
5	LANTCT	6	GND
7	LAN_MDI2P_1	8	LAN_MDI2N_1
9	LAN_MDI3P_1	10	LAN_MDI3N_1
11	LAN_LED_LINK#	12	LAN_LED_LINK1G#
13	LAN_LED_ACT#	14	3VSB

LAN2 Port

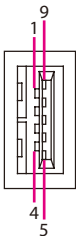
Connector type: RJ45 port with LEDs
Connector location: LAN2



Pin	Definition	Pin	Definition
1	LAN2_MDI0P	2	LAN2_MDI0N
3	LAN2_MDI1P	4	LAN2_MDI1N
5	LAN2TCT	6	GND
7	LAN2_MDI2P	8	LAN2_MDI2N
9	LAN2_MDI3P	10	LAN2_MDI3N
11	LAN2_LED_LINK#	12	LAN2_LED_LINK1G#
13	LAN2_LED_ACT#	14	3VSB

USB 3.0 Port 1

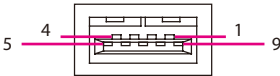
Connector type: USB 3.0 port, Type A
Connector location: USB1



Pin	Definition	Pin	Definition
1	+5V	2	USB0-
3	USB0+	4	GND
5	USB3_RX-	6	USB3_RX+
7	GND	8	USB3_TX-
9	USB3_TX+		

USB 3.0 Port 2

Connector type: USB 3.0 port, Type A
Connector location: USB2



Pin	Definition	Pin	Definition
1	+5V	2	USB1-
3	USB1+	4	GND
5	USB3_RX-	6	USB3_RX+
7	GND	8	USB3_TX-
9	USB3_TX+		

Internal Connectors

DC Input Connector

Connector type: 1x4 4-pin header, 2.0mm pitch
Connector location: JP3



Pin	Definition	Pin	Definition
1	12V	2	12V
3	12V	4	12V

DC Input Connector

Connector type: 1x4 4-pin header, 2.0mm pitch
Connector location: JP4



Pin	Definition	Pin	Definition
1	12V	2	12V
3	12V	4	12V



Power Button

Connector type: 1x2 2-pin header, 2.0mm pitch
Connector location: JP2



Pin	Definition
1	PWRBT
2	GND

Reset Button

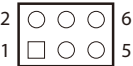
Connector type: 1x2 2-pin header, 2.0mm pitch
Connector location: JP1



Pin	Definition
1	GND
2	RESET

BIOS Programming (For Debug Only)

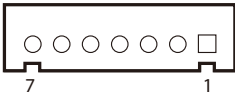
Connector type: 2x3 6-pin header, 2.0mm pitch
Connector location: JFW1



Pin	Definition	Pin	Definition
1	1.8V	2	GND
3	SPI_CS#	4	SPI_CK
5	SPI_SO	6	SPI_SI

LCD Backlight Connector

Connector type: 1x7 7-pin header, 1.25mm pitch
Connector location: J3

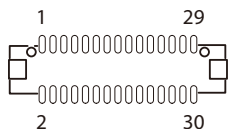


Pin	Definition	Pin	Definition
1	VCC5	2	12V
3	12V	4	BKCTRL
5	GND	6	GND
7	BKLEN		

LVDS Panel Connector

Connector type: 2x10 20-pin header, 1.25mm pitch

Connector location: CN1

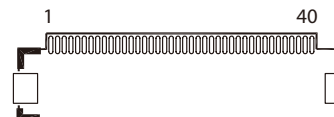


Pin	Definition	Pin	Definition
1	LVDS_DAT4#	2	LVDS_DAT0#
3	LVDS_DAT4	4	LVDS_DAT0
5	GND	6	GND
7	LVDS_DAT5#	8	LVDS_DAT1#
9	LVDS_DAT5	10	LVDS_DAT1
11	GND	12	GND
13	LVDS_DAT6#	14	LVDS_DAT2#
15	LVDS_DAT6	16	LVDS_DAT2
17	VCC_LCD	18	VCC_LCD
19	LVDS_DAT7#	20	LVDS_CLK1#
21	LVDS_DAT7	22	LVDS_CLK1
23	VCC_LCD	24	VCC_LCD
25	GND	26	GND
27	LVDS_CLK2#	28	LVDS_DAT3#
29	LVDS_CLK2	30	LVDS_DAT3

LVDS Panel FPC Connector

Connector type: 1x40 40-pin header

Connector location: CN4

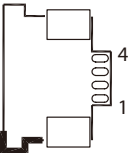


Pin	Definition	Pin	Definition
1	VCOM	2	+3V3_VDD
3	+3V3_VDD	4	NC
5	RESET	6	STBYB
7	GND	8	AX0-_N
9	AX0+_P	10	GND
11	AX1-_N	12	AX1+_P
13	GND	14	AX2-_N
15	AX2+_P	16	GND
17	CLK_X-_N	18	CLK_X+_P
19	GND	20	AX3-_N
21	AX3+_P	22	GND
23	NC	24	NC
25	GND	26	NC
27	NC	28	Bit select
29	AVDD	30	GND
31	LED-	32	LED-
33	L/R	34	U/D
35	VGL	36	NC
37	NC	38	VGH
39	LED+	40	LED+



LVDS Touch FPC Connector

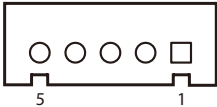
Connector type: 1x4 4-pin header
Connector location: CN3



Pin	Definition	Pin	Definition
1	Y_Up	2	X_Left
3	Y_Down	4	X_Right

Touch Sensor Connector

Connector type: 1x5 5-pin header JST, 2.5mm pitch
Connector location: J4



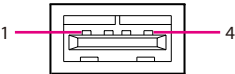
Pin	4-Wire	5-Wire
1	Bottom	UR (H)
2	Right	LR (X)
3	N/A	Sense (S)
4	Top	UL (Y)
5	Left	LL (L)





USB Connector (Dongle)

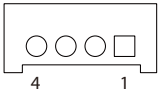
Connector type: USB port
Connector location: USB3



Pin	Definition	Pin	Definition
1	+5V	2	USB3-
3	USB3-	4	GND

Internal USB Connector

Connector type: 1x4 4-pin header JST, 2.0mm pitch
Connector location: USB4



Pin	Definition	Pin	Definition
1	+5V	2	USB4-
3	USB4+	4	GND





TPM/Debug Port Connector

Connector type: 1x10 10-pin header, 1.0mm pitch
Connector location: DEBUG1



Pin	Definition	Pin	Definition
1	GND	2	Reset#
3	LPC_CLK	4	LPC_FRAME#
5	LPC_AD3	6	LPC_AD2
7	LPC_AD1	8	LPC_AD0
9	LPC_SERIRQ	10	3.3V

EC Programming Connector

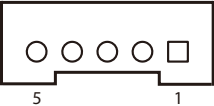
Connector type: 1x3 3-pin header, 1.25mm pitch
Connector location: JP8



Pin	Definition
1	GND
2	EC_I2CDATA
3	EC_I2CCLK

LED Connector

Connector type: 1x5 5-pin header JST, 2.0mm pitch
Connector location: J1



Pin	Definition	Pin	Definition
1	HDDLED#	2	VCC5
3	GND	4	Standby Power 5V
5	Power LED 5V		

Remote Control Connector

Connector type: 1x3 3-pin header, 1.25mm pitch
Connector location: JP10

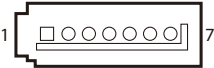


Pin	Definition
1	ATX_PWRBTN#_RE
2	GND
3	SOC_SLP_S3_N_RE



SATA Connector

Connector type: 1x7 7-pin header, 1.27mm pitch
Connector location: CN5



Pin	Definition	Pin	Definition
1	GND	2	SATA_TXP1_C
3	SATA_TXN1_C	4	GND
5	SATA_RXN1_C	6	SATA_RXP1_C
7	GND		

SATA Power Connector

Connector type: 1x2 2-pin header, 2.5mm pitch
Connector location: J5

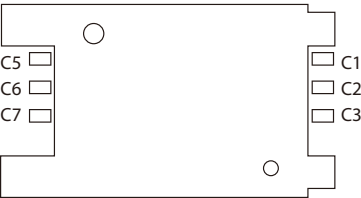


Pin	Definition
1	VCC5
2	GND



SIM Card Socket

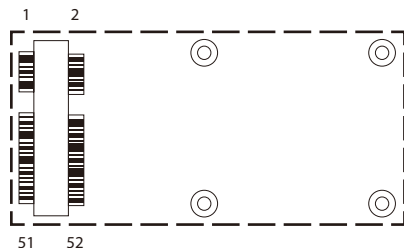
Connector location: CN2



Pin	Definition	Pin	Definition
C 1	UIM_PWR	C 2	UIM_RST
C 3	UIM_CLK	C 5	GND
C 6	UIM_VCCP	C 7	UIM_DAT

Mini-PCle Slot (PCle/mSATA/3G)

Connector location: MINIPCIE1



Pin	Definition	Pin	Definition
1	WAKE0#	2	+V3.3_MINI
3	NC	4	GND
5	NC	6	+V1.5S_MINI
7	PCIE_CLKREQ2#	8	UIM_PWR
9	GND	10	UIM_DATA
11	GPP_CLK1_N	12	UIM_CLK
13	GPP_CLK1_P	14	UIM_RESET
15	GND	16	UIM_VPP
17	NC	18	GND
19	NC	20	MINICARD1_DIS#
21	GND	22	PCIE_RST#
23	PCIE_RX2N/mSATA_RxP	24	+V3.3A_MINI
25	PCIE_RX2P/mSATA_RxN	26	GND

Pin	Definition	Pin	Definition
27	GND	28	+V1.5S_MINI
29	GND	30	SMB_CLK
31	PCIE_TX3N/mSATA_TxN	32	SMB_DAT
33	PCIE_TX3P/mSATA_TxP	34	GND
35	GND	36	USB_5N
37	GND	38	USB_5P
39	+V3.3A_MINI	40	GND
41	+V3.3A_MINI	42	NC
43	GND	44	NC
45	NC	46	NC
47	NC	48	+V1.5S_MINI
49	NC	50	GND
51	PCIE/mSATA detect	52	+V3.3A_MINI

CHAPTER 3: SYSTEM SETUP

Removing the Rear Chassis Cover



Prior to removing the chassis cover, make sure the unit's power is off and disconnected from the power sources to prevent electric shock or system damage.

1. Locate and remove the mounting screws on the rear chassis cover, then remove the cover from the system.



Installing a TPM Module

The TPM module package includes the following items:



TPM Cable

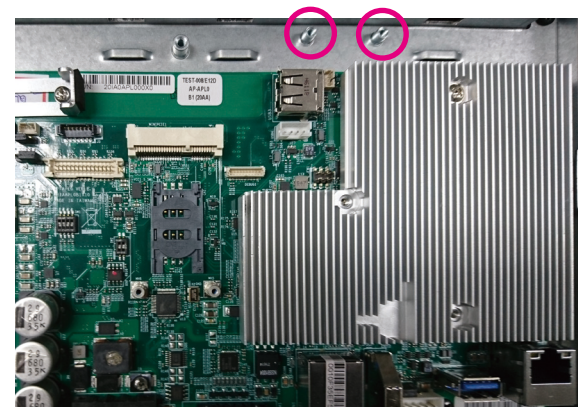


Mounting Screws

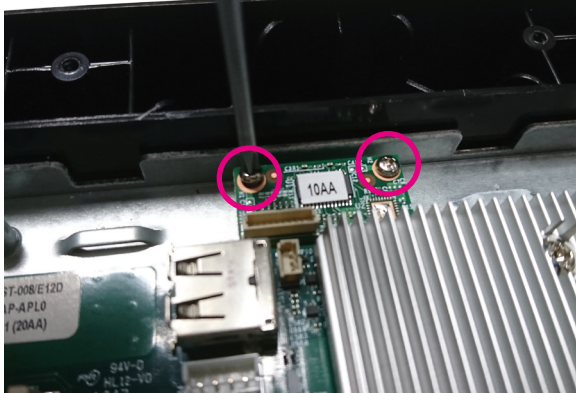


TPM Module

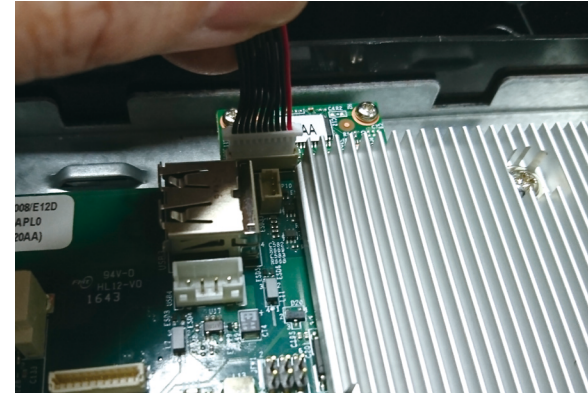
1. Locate the standoffs for installing the TPM module.



2. Align the mounting holes on the TPM module to the standoffs and secure the module with screws.



3. Connect the TPM cable to the TPM connector on the module.

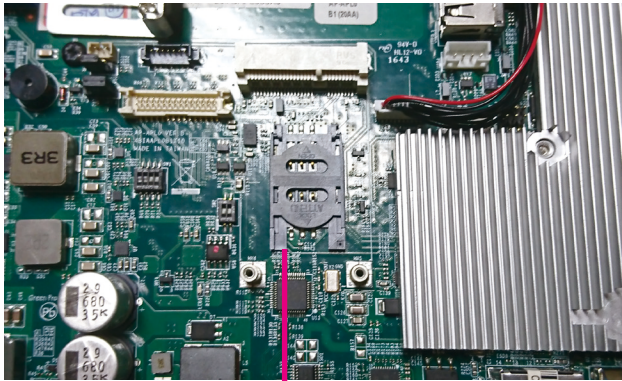


4. Connect the other end of the TPM cable to the TPM connector on the motherboard.

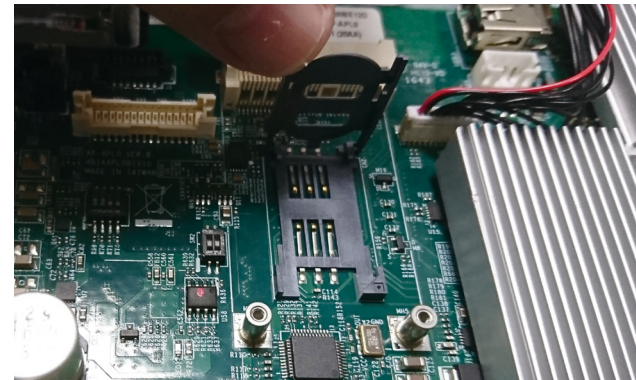
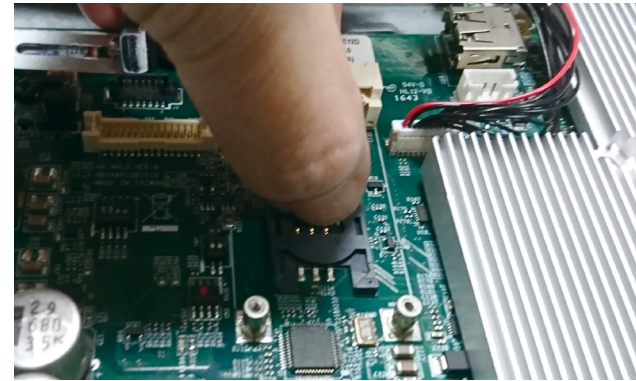


Installing a SIM Card and Mini-PCle Module

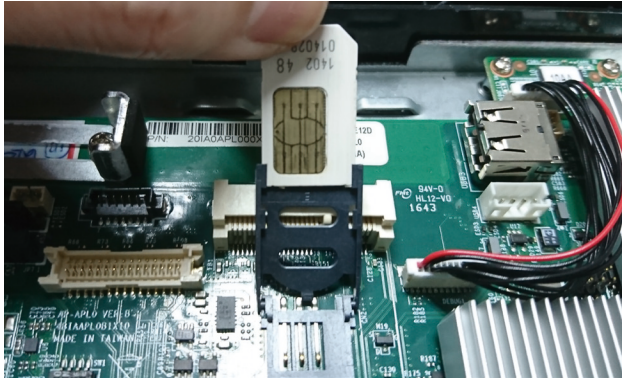
1. Locate the SIM card slot on the motherboard.
2. Lift up the SIM card cover.



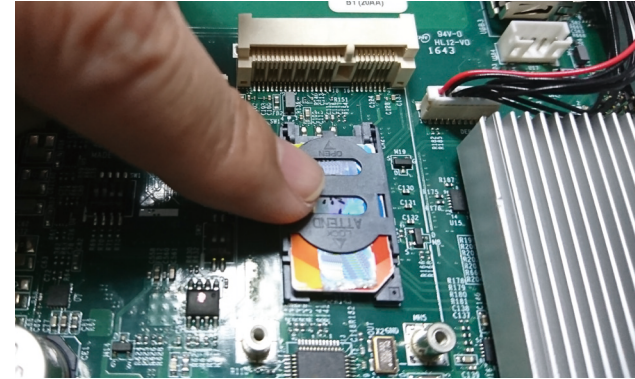
SIM Card Slot



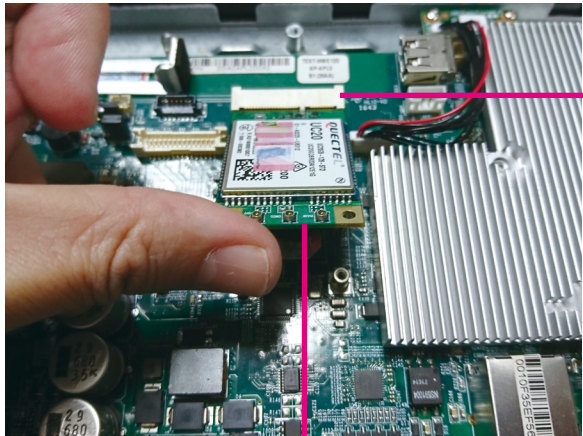
3. Place the SIM card into the slot.



4. Close the cover and secure the SIM card into position.



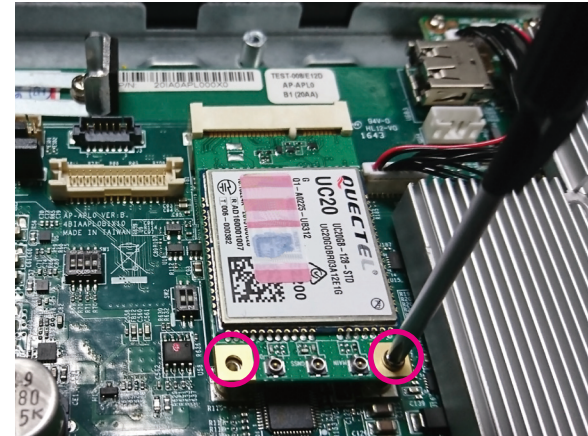
5. Insert the mini-PCIe module into the mini-PCIe slot at a 45 degrees angle until the gold-plated connector on the edge of the module completely disappears inside the slot.



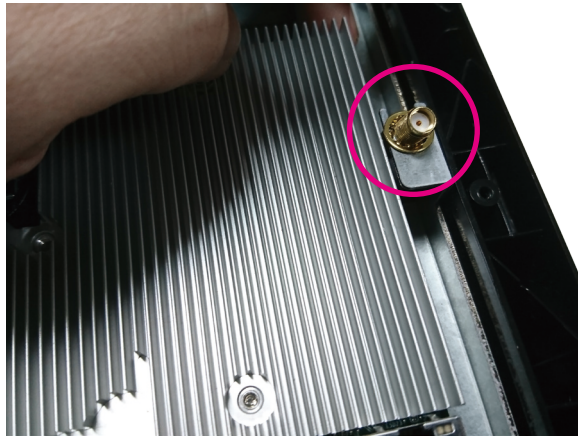
Mini-PCIe Slot

Mini-PCIe Module

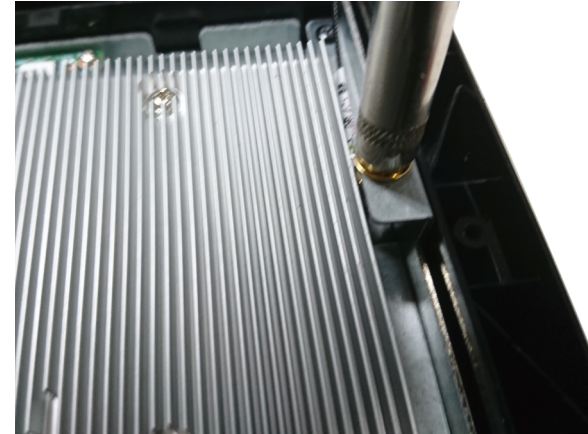
6. Secure the module with mounting screws.



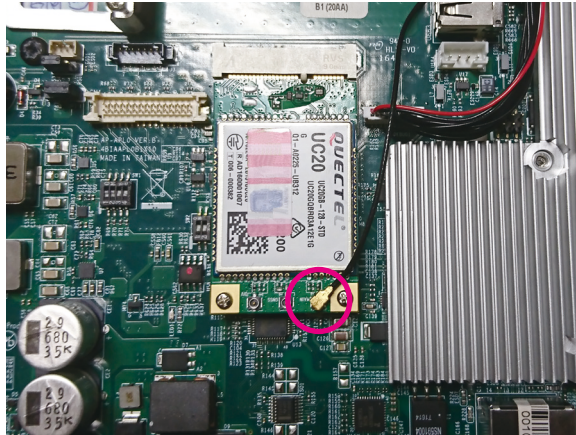
7. Install the antenna jack end to the antenna mounting bracket on the right of the system, and insert ring 1 onto the antenna jack end of the cable.



8. Insert and secure ring 2 onto the antenna jack end of the cable.



9. Attach the end of the RF cable onto the RF antenna connector on the mini-PCIe module.



10. Secure the rear chassis cover back to the system and connect an external antenna to the antenna jack.

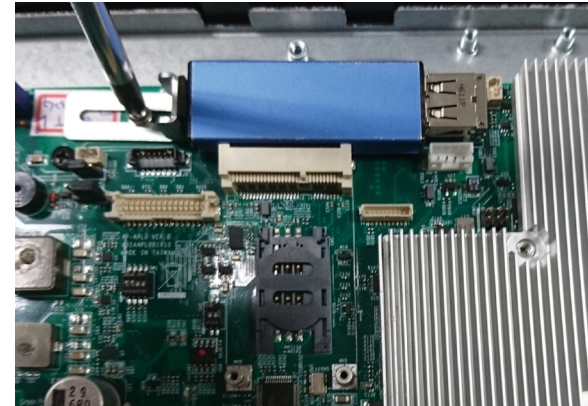


Installing an Internal USB Key

1. Loosen the screw on the USB fixing bracket.



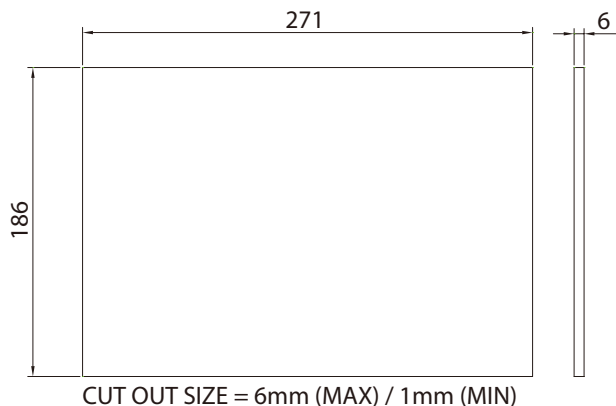
2. Plug the USB key into the USB connector and slide the fixing bracket towards the USB key. Once the fixing bracket is firmly seated against the end of the USB key, fasten the screw to secure the bracket in place.



Panel Mounting

1. Select a place on the panel where you will mount eLITE610.
2. Cut out a shape on the panel that corresponds to the rear dimensions of eLITE610.
3. Slide eLITE610 through the hole until it is properly fitted against the panel.

The thickness of the panel (e.g. steel board, plank, acrylic board, wall, etc.) where you will mount eLITE610 must not exceed 6mm. If the distance between the front bezel and panel mount hole is too wide, it will not fit the panel mount kit.



CHAPTER 4: BIOS SETUP

This chapter describes how to use the BIOS setup program for eLITE610. The BIOS screens provided in this chapter are for reference only and may change if the BIOS is updated in the future.

To check for the latest updates and revisions, visit the NEXCOM website at www.nexcom.com.tw.

About BIOS Setup

The BIOS (Basic Input and Output System) Setup program is a menu driven utility that enables you to make changes to the system configuration and tailor your system to suit your individual work needs. It is a ROM-based configuration utility that displays the system's configuration status and provides you with a tool to set system parameters.

These parameters are stored in non-volatile battery-backed-up CMOS RAM that saves this information even when the power is turned off. When the system is turned back on, the system is configured with the values found in CMOS.

With easy-to-use pull down menus, you can configure such items as:

- Hard drives, diskette drives, and peripherals
- Video display type and display options
- Password protection from unauthorized use
- Power management features

The settings made in the setup program affect how the computer performs. It is important, therefore, first to try to understand all the setup options, and second, to make settings appropriate for the way you use the computer.

When to Configure the BIOS

- This program should be executed under the following conditions:
- When changing the system configuration
- When a configuration error is detected by the system and you are prompted to make changes to the setup program
- When resetting the system clock
- When redefining the communication ports to prevent any conflicts
- When making changes to the Power Management configuration
- When changing the password or making other changes to the security setup

Normally, CMOS setup is needed when the system hardware is not consistent with the information contained in the CMOS RAM, whenever the CMOS RAM has lost power, or the system features need to be changed.

Default Configuration

Most of the configuration settings are either predefined according to the Load Optimal Defaults settings which are stored in the BIOS or are automatically detected and configured without requiring any actions. There are a few settings that you may need to change depending on your system configuration.

Entering Setup












When the system is powered on, the BIOS will enter the Power-On Self Test (POST) routines. These routines perform various diagnostic checks; if an error is encountered, the error will be reported in one of two different ways:

- If the error occurs before the display device is initialized, a series of beeps will be transmitted.
- If the error occurs after the display device is initialized, the screen will display the error message.

Powering on the computer and immediately pressing allows you to enter Setup.

Press the  key to enter Setup:


Legends

Key	Function
	Moves the highlight left or right to select a menu.
	Moves the highlight up or down between sub-menus or fields.
	Exits the BIOS Setup Utility.
	Scrolls forward through the values or options of the highlighted field.
	Scrolls backward through the values or options of the highlighted field.
	Selects a field.
	Displays General Help.
	Load previous values.
	Load optimized default values.
	Saves and exits the Setup program.
	Press <Enter> to enter the highlighted sub-menu


Scroll Bar

When a scroll bar appears to the right of the setup screen, it indicates that there are more available fields not shown on the screen. Use the up and down arrow keys to scroll through all the available fields.

Submenu

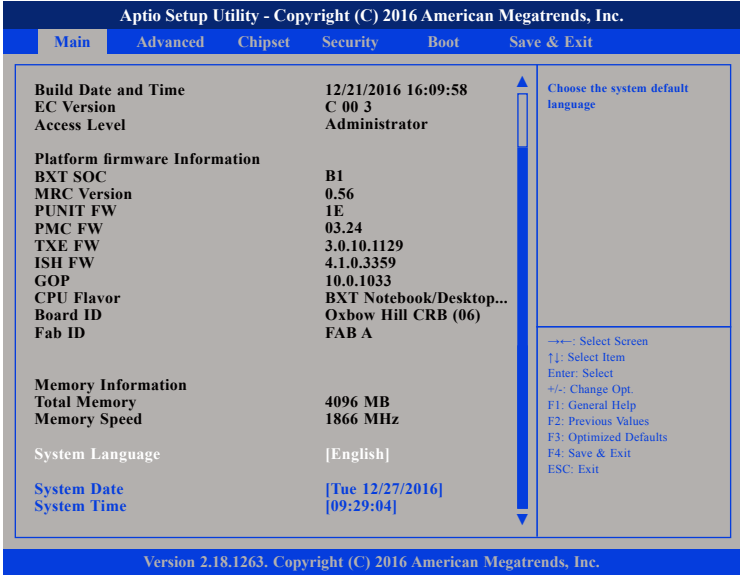
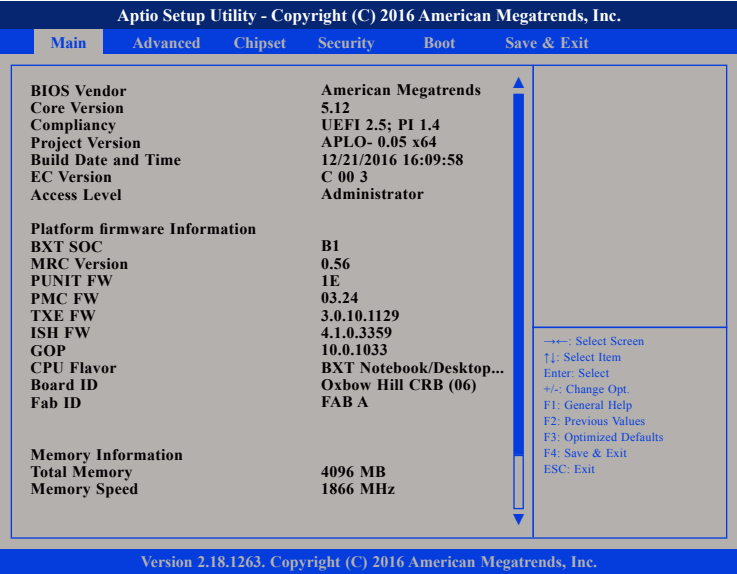
When “▶” appears on the left of a particular field, it indicates that a submenu which contains additional options are available for that field. To display the submenu, move the highlight to that field and press  .

BIOS Setup Utility

Once you enter the AMI BIOS Setup Utility, the Main Menu will appear on the screen. The main menu allows you to select from several setup functions and one exit. Use arrow keys to select among the items and press  to accept or enter the submenu.

Main

The Main menu is the first screen that you will see when you enter the BIOS Setup Utility.



System Language

Selects the language of the system.

System Date

The date format is <day>, <month>, <date>, <year>. Day displays a day, from Monday to Sunday. Month displays the month, from January to December. Date displays the date, from 1 to 31. Year displays the year, from 1999 to 2099.

System Time

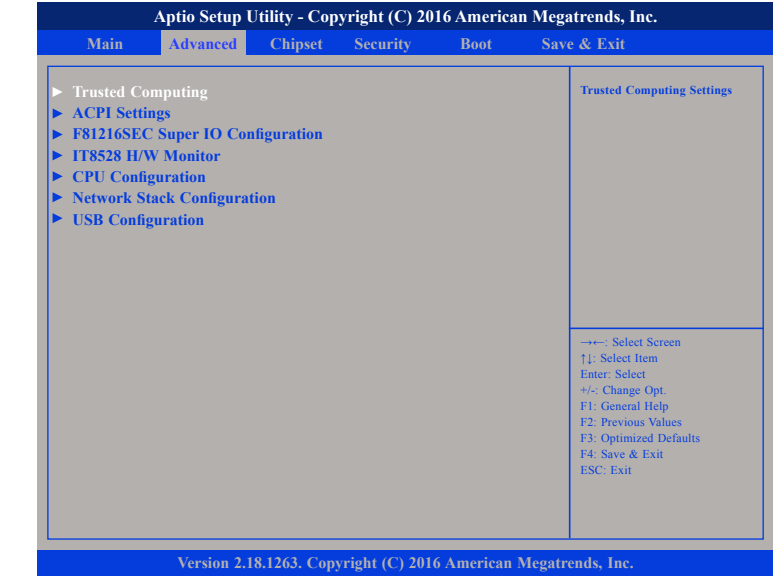
The time format is <hour>, <minute>, <second>. The time is based on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00. Hour displays hours from 00 to 23. Minute displays minutes from 00 to 59. Second displays seconds from 00 to 59.

Advanced

The Advanced menu allows you to configure your system for basic operation. Some entries are defaults required by the system board, while others, if enabled, will improve the performance of your system or let you set some features according to your preference.



Setting incorrect field values may cause the system to malfunction.



Trusted Computing

This section is used to configure Trusted Platform Module (TPM) settings.



Security Device Support

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.

ACPI Settings

This section is used to configure ACPI settings.



Enable Hibernation

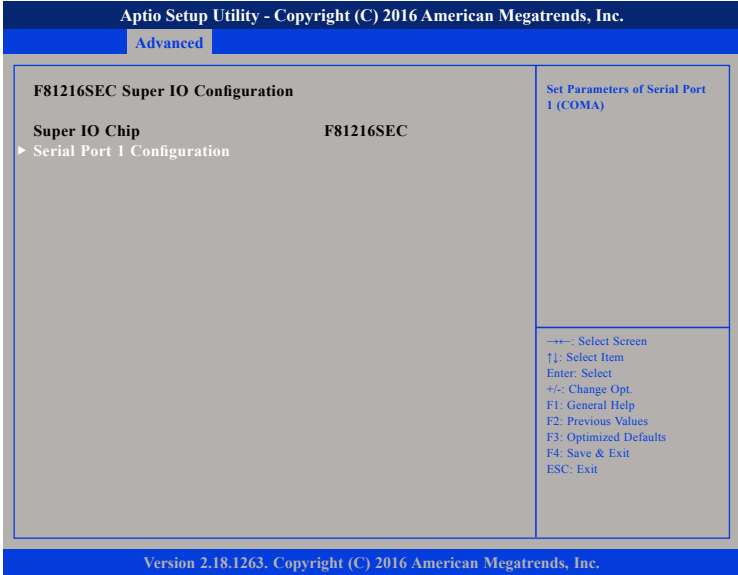
Enables or disables system ability to hibernate (OS/S4 Sleep State). This option may not be effective with some OS.

ACPI Sleep State

Select the highest ACPI sleep state the system will enter when the suspend button is pressed. The options are Suspend Disabled and S3 (Suspend to RAM).

F81216SEC Super IO Configuration

This section is used to configure the I/O functions supported by the onboard Super I/O chip.



Super IO Chip

Displays the Super I/O chip used on the board.



Serial Port 1 Configuration

This section is used to configure serial port 1.

Aptio Setup Utility - Copyright (C) 2016 American Megatrends, Inc.

Advanced

Serial Port 1 Configuration

Serial Port

Device Settings

Onboard Serial Port Mode

Terminal resistor

[Enabled]

IO=3F8h; IRQ=4;

[RS232]

[Enabled]

Enable or Disable Serial Port (COM)

---: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F3: Optimized Defaults

F4: Save & Exit

ESC: Exit

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Serial Port

Enables or disables the serial port.

Onboard Serial Port Mode

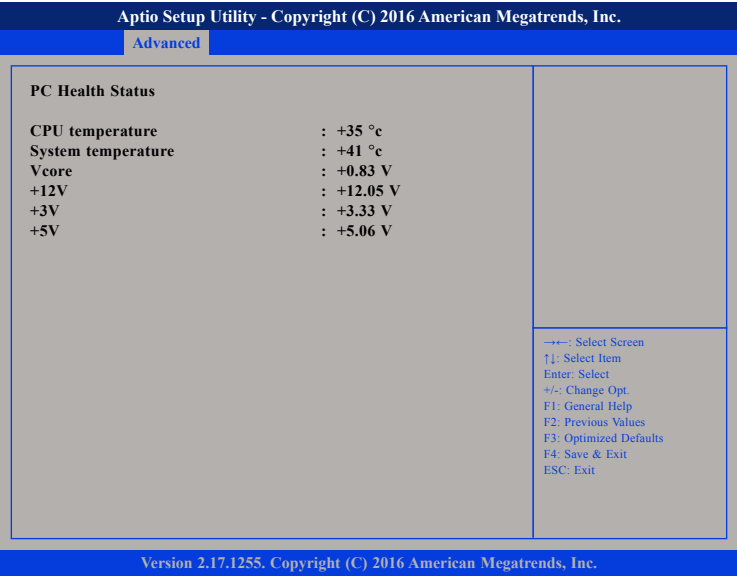
Select this to change the serial port mode to RS232, RS422, RS485 or RS485 Auto.

Terminal Resistor

Enables or disables the terminal resistor.

Hardware Monitor

This section is used to monitor hardware status such as temperature, fan speed and voltages.



CPU Temperature

Detects and displays the current CPU temperature.

System Temperature

Detects and displays the current system temperature.

Vcore

Detects and displays the Vcore voltage.

+12V

Detects and displays 12V voltage.

+3V

Detects and displays 3.3V voltage.

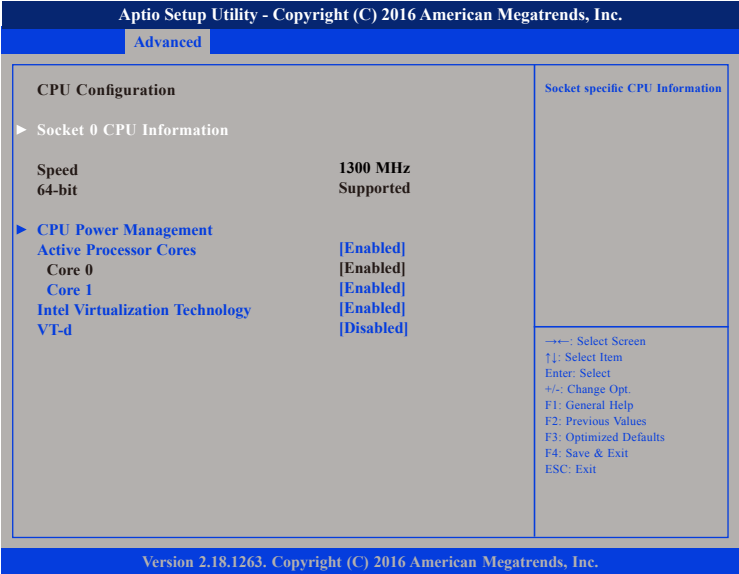
+5V

Detects and displays 5V voltage.



CPU Configuration

This section is used to configure the CPU.



Active Processor Cores

Select the number of cores to enable in each processor package.

Core 1

Enables or disables CPU core 1.

Intel® Virtualization Technology

When this field is set to Enabled, the VMM can utilize the additional hardware capabilities provided by Vanderpool Technology.

VT-d

Enables or disables VT-d function on MCH.

CPU Power Management



EIST

Enables or disables Intel® SpeedStep.



Network Stack

This section is used to configure the network stack.



Network Stack

Enables or disables UEFI network stack.

USB Configuration

This section is used to configure the USB.



Legacy USB Support

- Enable Enables Legacy USB.
- Auto Disables support for Legacy when no USB devices are connected.
- Disable Keeps USB devices available only for EFI applications.

XHCI Hand-off

This is a workaround for OSs that does not support XHCI hand-off. The XHCI ownership change should be claimed by the XHCI driver.

USB Mass Storage Driver Support

Enables or disables USB mass storage driver support.

USB Transfer Time-out

The time-out value for control, bulk, and Interrupt transfers.

Device Reset Time-out

Selects the USB mass storage device’s start unit command timeout.

Device Power-up Delay

Maximum time the value will take before it properly reports it self 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.



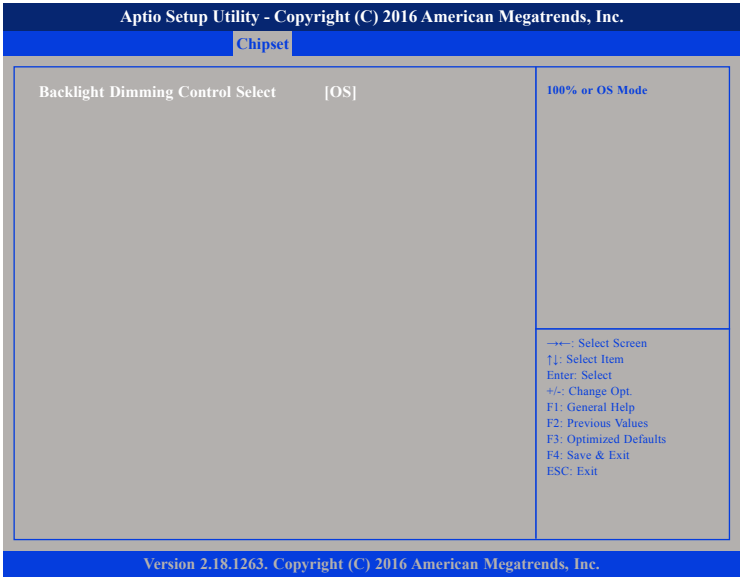
Chipset

This section is used to configure the system based on the specific features of the chipset.



Setting incorrect field values may cause the system to malfunction.

North Bridge

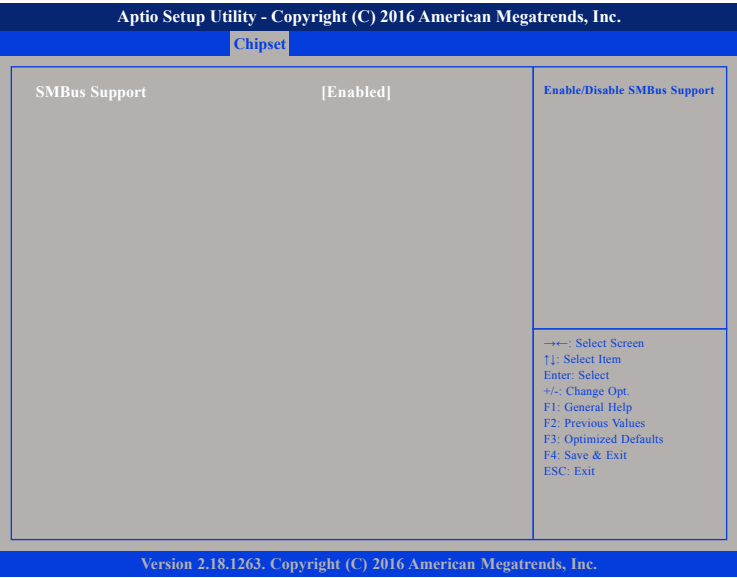


Backlight Dimming Control Select

Configures the backlight to 100% or OS mode.



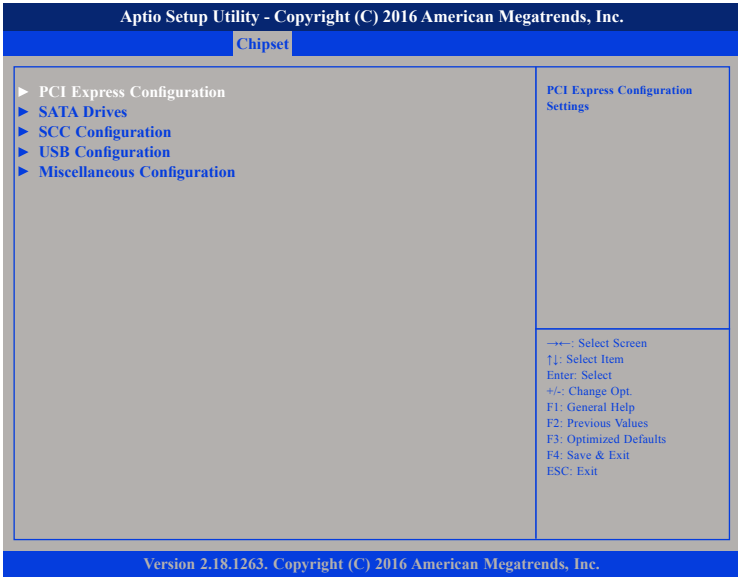
South Bridge



SMBus Support

Enables or disables SMBus support.

South Cluster Configuration





PCI Express Configuration



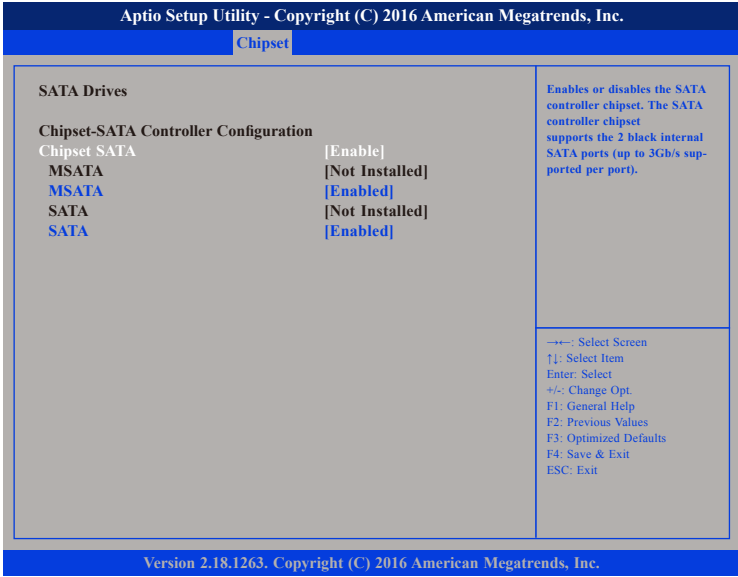
LAN1 and LAN2

Enables or disables LAN1 or LAN2 ports.

MINIPCI1

Enables or disables Mini-PCIe1 port.

SATA Drives



Chipset SATA

Enables or disables the SATA controller chipset. The SATA controller chipset supports the 2 black internal SATA ports (up to 3Gb/s supported per port).

MSATA

Enables or disables the mSATA port.

SATA

Enables or disables the SATA port



SCC Configuration

Aptio Setup Utility - Copyright (C) 2016 American Megatrends, Inc.

Chipset

SCC eMMC Support (D28:F0)

[Enable]

Enables or disables SCC eMMC support.

→←: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F3: Optimized Defaults

F4: Save & Exit

ESC: Exit

Version 2.18.1263. Copyright (C) 2016 American Megatrends, Inc.

SCC eMMC Support (D28:F0)
Enables or disables SCC eMMC support.

USB Configuration

Aptio Setup Utility - Copyright (C) 2016 American Megatrends, Inc.

Chipset

xHCI Mode

[Enable]

Once disabled, XHCI controller function would be function disabled, none of the USB devices are detectable and usable during boot up and in OS. Do not disable it unless for debugging purposes.

→←: Select Screen

↑↓: Select Item

Enter: Select

+/-: Change Opt.

F1: General Help

F2: Previous Values

F3: Optimized Defaults

F4: Save & Exit

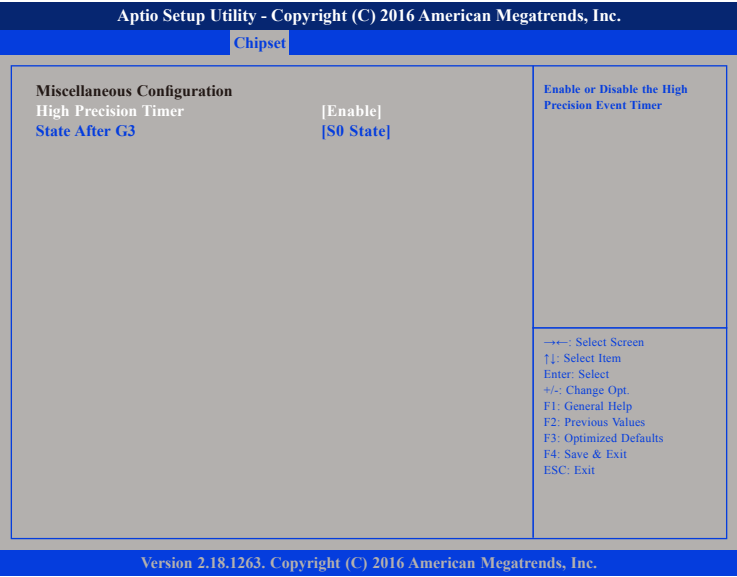
ESC: Exit

Version 2.18.1263. Copyright (C) 2016 American Megatrends, Inc.

xHCI Mode
Enables or disables XHCI mode. Once disabled, XHCI controller function will be disabled and all the USB devices will not be detectable and usable during boot up and in OS. Please do not disable it unless for debugging purposes.



Miscellaneous Configuration



High Precision Timer

Enables or disables high precision event timer.

State After G3

Configures the power state when power is re-applied after a power failure (G3 state).

Security



Administrator Password

Select this to reconfigure the administrator's password.

User Password

Select this to reconfigure the user's password.



Boot



Setup Prompt Timeout

Selects the number of seconds to wait for the setup activation key. 65535(0xFFFF) denotes indefinite waiting.

Bootup NumLock State

This allows you to determine the default state of the numeric keypad. By default, the system boots up with NumLock on wherein the function of the numeric keypad is the number keys. When set to Off, the function of the numeric keypad is the arrow keys

Quiet Boot

Enabled Displays OEM logo instead of the POST messages.
Disabled Displays normal POST messages.

Boot Option Priorities

Adjust the boot sequence of the system. Boot Option #1 is the first boot device that the system will boot from, next will be #2 and so forth.

Fast Boot

Enables or disables boot with initialization of a minimal set of devices required to launch active boot option. Has no effect for BBS boot options.

Save & Exit



Save Changes and Exit

To save the changes and exit the Setup utility, select this field then press <Enter>. A dialog box will appear. Confirm by selecting Yes. You can also press <F4> to save and exit Setup.

Discard Changes and Exit

To exit the Setup utility without saving the changes, select this field then press <Enter>. You may be prompted to confirm again before exiting. You can also press <ESC> to exit without saving the changes.

Save Changes and Reset

To save the changes and reset, select this field then press <Enter>. A dialog box will appear. Confirm by selecting Yes.

Discard Changes and Reset

To exit the Setup utility and reboot the system without saving the changes, select this field then press <Enter>. You may be prompted to confirm again before exiting.

Save Changes

To save changes and continue configuring the BIOS, select this field then press <Enter>. A dialog box will appear. Confirm by selecting Yes.

Discard Changes

To discard the changes, select this field then press <Enter>. A dialog box will appear. Confirm by selecting Yes to discard all changes made and restore the previously saved settings.

Restore Defaults

To restore the BIOS to default settings, select this field then press <Enter>. A dialog box will appear. Confirm by selecting Yes.

Save as User Defaults

To use the current configurations as user default settings for the BIOS, select this field then press <Enter>. A dialog box will appear. Confirm by selecting Yes.

Restore User Defaults

To restore the BIOS to user default settings, select this field then press <Enter>. A dialog box will appear. Confirm by selecting Yes.

Boot Override

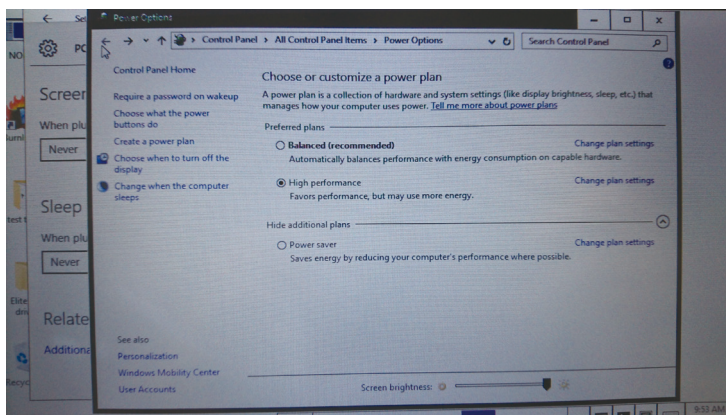
To bypass the boot sequence from the Boot Option List and boot from a particular device, select the desired device and press <Enter>.

Launch EFI Shell from filesystem device

To launch EFI shell from a filesystem device, select this field and press <Enter>.

APPENDIX A: ADJUSTING SCREEN BRIGHTNESS

1. In the Windows Control Panel menu, select **Power Options**.



2. Move the **Screen brightness** slider to adjust the screen brightness.

