

NEXCOM International Co., Ltd.

IoT Automation Solutions Business Group PICMG Single Board Computer (PICMG 1.3) PEAK 887VL2

User Manual



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Preface

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Acknowledgements

PEAK 887VL2 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 2002/95/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 2006 will be RoHS compliant. They will use the usual NEXCOM naming convention.





Warranty and RMA

NEXCOM Warranty Period

NEXCOM manufactures products that are new or equivalent to new in accordance with industry standard. NEXCOM warrants that products will be free from defect in material and workmanship for 2 years, beginning on the date of invoice by NEXCOM. HCP series products (Blade Server) which are manufactured by NEXCOM are covered by a three year warranty period.

NEXCOM Return Merchandise Authorization (RMA)

- Customers shall enclose the "NEXCOM RMA Service Form" with the returned packages.
- Customers must collect all the information about the problems encountered and note anything abnormal or, print out any on-screen messages, and describe the problems on the "NEXCOM RMA Service Form" for the RMA number apply process.
- Customers can send back the faulty products with or without accessories (manuals, cable, etc.) and any components from the card, such as CPU and RAM. If the components were suspected as part of the problems, please note clearly which components are included. Otherwise, NEXCOM is not responsible for the devices/parts.
- Customers are responsible for the safe packaging of defective products, making sure it is durable enough to be resistant against further damage and deterioration during transportation. In case of damages occurred during transportation, the repair is treated as "Out of Warranty."
- Any products returned by NEXCOM to other locations besides the customers' site will bear an extra charge and will be billed to the customer.

Repair Service Charges for Out-of-Warranty Products

NEXCOM will charge for out-of-warranty products in two categories, one is basic diagnostic fee and another is component (product) fee.

Repair Service Charges for Out-of-Warranty Products

NEXCOM will charge for out-of-warranty products in two categories, one is basic diagnostic fee and another is component (product) fee.

System Level

- Component fee: NEXCOM will only charge for main components such as SMD chip, BGA chip, etc. Passive components will be repaired for free, ex: resistor, capacitor.
- Items will be replaced with NEXCOM products if the original one cannot be repaired. Ex: motherboard, power supply, etc.
- Replace with 3rd party products if needed.
- If RMA goods can not be repaired, NEXCOM will return it to the customer without any charge.

Board Level

- Component fee: NEXCOM will only charge for main components, such as SMD chip, BGA chip, etc. Passive components will be repaired for free, ex: resistors, capacitors.
- If RMA goods can not be repaired, NEXCOM will return it to the customer without any charge.





Warnings

Read and adhere to all warnings, cautions, and notices in this guide and the documentation supplied with the chassis, power supply, and accessory modules. If the instructions for the chassis and power supply are inconsistent with these instructions or the instructions for accessory modules, contact the supplier to find out how you can ensure that your computer meets safety and regulatory requirements.

Cautions

Electrostatic discharge (ESD) can damage system components. Do the described procedures only at an ESD workstation. If no such station is available, you can provide some ESD protection by wearing an antistatic wrist strap and attaching it to a metal part of the computer chassis.



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.
- The computer is provided with a battery-powered real-time clock circuit. There is a 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.

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

- 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.
- 3. CompactFlash: Turn off the unit's power before inserting or removing a CompactFlash storage card.

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.



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Package Contents

Before continuing, verify that the PEAK 887VL2 package that you received is complete. Your package should have all the items listed in the following table.

Item	Part Number	Name	Description	Qty
1	10P0887VL00X0	ASSY PEAK 887VL2	PICMG 1.3 computing board	1
2	60177B0268X00	PEAK 887VL2 Quick Reference Guide VER:B	KRAMER	1
3	60233ATA73X00	SATA cable ACMELUX: 19922413	Standard L:300mm	1
4	60233PRT15X00	Cable CONNTEK: A02-C016-V01	Print 25 to 2.0mm 26-pin PIT:1.0mm L:260mm w/bracket	1
5	603PS20001X00	PS2 Y CABLE CONNTEK:A02-A052-V01	PS2 to JST 6P PH:2.0 L=250mm	1
6	60233SIO03X00	Cable EDI: 13420901511-RS	COM port 9-pin to housing 10-pin PIT: 2.0mm x2 L:150mm+-10mm	1
7	60233USB60X00	USB cable CONNTEK: A02-B001-V01	USB CONx2+bracket to JST 6-pin 2.5mm L:240+-15mm	1
8	6029900037X00	DOW Corning 340 Silcone Heat Sink Compound(3g)		1
9	602DCD0745X00	PEAK 887VL2 DVD Driver VER:1.0	JCL	1

Optional Accessories

Item	Part Number	Name	Description
1	60233DVI32X00	DVI Cable ST:MD-6301035	DVI 24+5P/F + bracket to DF13 2x15P PH:1.25 L:250mm
2	60233HDM01X00	HDMI Cable CONNTEK:A02-A039_V24	HDMI 19P/F + bracket to DF13 2x15P PH:1.25 L:250mm
3	60233US119X00	(N) USB 3.0 Cable ST:13-450-E007	USB A/Fx2 TO 2x10P L=380mm
4	5050300481X00	LGA1156 CPU Cooler USE:FHSA9025S-1288	88 x 88 x 36.7mm AL6063 7010FAN 4300RPM L:200mm



Ordering Information

The following information below provides ordering information for PEAK 887VL2.

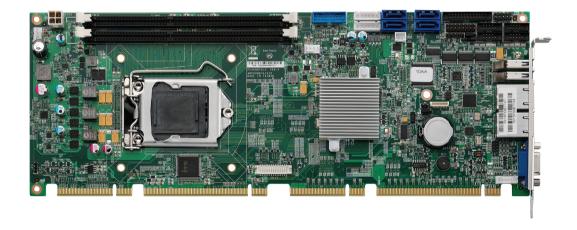
PEAK 887VL2 (P/N: TBD)

PICMG 1.3 Full-size SBC, 4th Generation Intel® Core™ i7/i5/i3 Processors with Max 16GB, DDR3L DIMM, VGA integration, Intel® Gigabit Ethernet x2, USB 3.0 x4, SATA 3.0 x3



Chapter 1: Product Introduction

Overview



Key Features

- Scalable platform 4th generation Intel® Core™ i7/i5/i3 processor + Non-ECC
- Intel® Q87 PCH chipset support PICMG 1.3 specification
- Support dual channel DDR3L with NON-ECC DIMMs 1333/1600MHz up to 16GB
- Support PCle x16, 4x PCle x1, 4x USB 3.0/ 4x USB 2.0, 4x SATA 3.0/ 2x SATA 2.0 and GbE
- Display support for VGA, DVI, HDMI
- Dimension 338.58 x 126.39 mm² (W x L) (8 layers single side)





Hardware Specifications

CPU Support

4th generation Intel[®] Core[™] i7/i5/i3 processor (95W/ 65W/ 45W/ 35W)
 TDPs, Socket LGA 1150

Main Memory

- 2x DIMM, support dual channel DDR3L (default)/ DDR3 NON-ECC DIMM (dual voltage models by auto detection for DDR3 and DDR3L)
- Maximum 16 GB 1066/1333/1600 MT/S

Platform Control Hub

Intel® Q87 Express Chipset PCH

BIOS

- AMI System BIOS
- 16MBit SPI depended on AMT function
- Dual BIOS for four PCle x1 and one PCle x4 auto-detection

Display

- The Processor Graphics contains a refresh of the seventh generation graphics
- Intel[®] HD Graphics GT1/GT2
- Share system memory
- Analog Display Support
- Drive a standard progressive scan analog monitor

Audio

• Reverse HDA interface, 2.0mm 2x5 pin header

On-board LAN

- 1x Intel® I217I M GbF PHY
- 1x Intel® I211 Gigabit Ethernet Controller
- RJ45 with LED connecter x 2
- Support Boot From LAN (PXE)
- RJ45 LED
- Support Wake on LAN
- Extra (External) LED: 2 x 4 pin header

I/O Interface

- ITE8783
- PS2 KB/MS reserve 1x6 (2.0m) JST connector
- 26-pin Box Header x 1 (2.0mm)
- SIO Box Header x 4 (2.0mm), COM1, 3, 4 support RS232, COM2 RS232/422/485, RI pin can be select RI/5V/12V with jumper (2x3 pin 2.0mm pin-header)
- 4 Ports USB 2.0 and 4 ports USB 3.0:
 - 2 ports through 2.5mm JST Connectors, located near Rear Side of PCB (near CPU, USB 3.0)
 - 4 ports through backplane (USB 2.0)
 - 2 ports through I/O bracket (USB 3.0)
- 4-pin FAN connector x 2 (for CPU, System)
- On board pin header for IrDA Tx Rx 1x5/2.54mm pin-header
- HDD LED/ Power LED/ Power ON SW/ Reset SW
- On Board buzzer
- USB x1/ USB x1/ LAN1 RJ45 x1/ LAN2 RJ45 x1/ VGA DB15 from top to down





Power Requirements

- Power source from Backplane through Golden Finger and AUX +12V
- Support ATX/AT function by jumper setting
- BIOS default is (ATX MODE)

Dimensions

• 338.58mm x 126.39mm, 8 layers (single side)

Environment

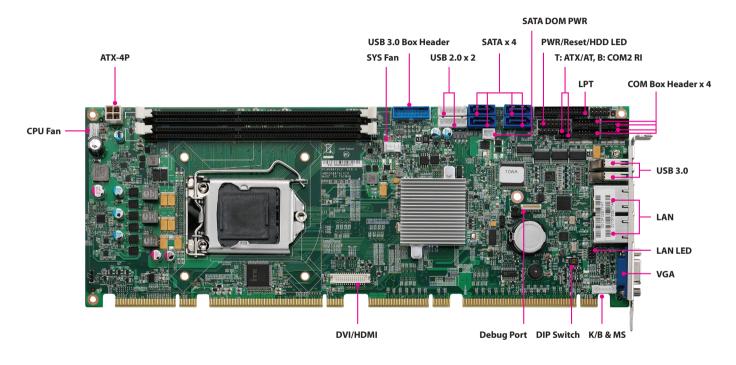
- Board Level Operating temperatures: -15°C to 60°C
- Storage temperatures: -20°C to 85°C
- Relative humidity:
 10% to 90% (operating, non-condensing)
 5% to 95% (non-operating, non-condensing)

Certifications

- CE approval
- FCC Class A
- CB/CCC certification



Knowing Your PEAK 887VL2





Chapter 2: Jumpers and Connectors

This chapter describes how to set the jumpers and connectors on the PEAK 887VL2 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.



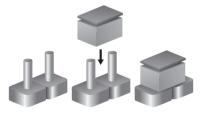


Jumper Settings

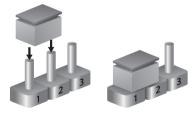
A jumper is the simplest kind of electric switch. It consists of two metal pins and a cap. When setting the jumpers, ensure that the jumper caps are placed on the correct pins. When the jumper cap is placed on both pins, the jumper is short. If you remove the jumper cap, or place the jumper cap on just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



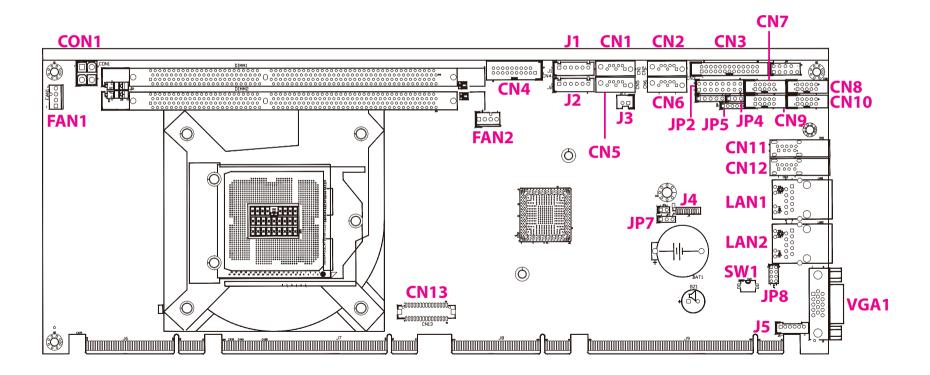
Three-Pin Jumpers: Pins 1 and 2 are Short





Locations of the Jumpers and Connectors

The figure below shows the location of the jumpers and connectors for PEAK 887VL2.





Jumpers

CMOS Clear Select

Connector type: 1x3 3-pin header

Connector location: JP7



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

1-2 On: default

AT/ATX Select

Connector type: 1x3 3-pin header

Connector location: JP4



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

2-3 On: default



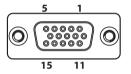
Connector Pin Definitions

External Connectors

VGA Port

Connector type: DB-15 port, 15-pin D-Sub

Connector location: VGA1



Pin	Definition	Pin	Definition
1	RED_VGA	2	GREEN_VGA
3	BLUE_VGA	4	NC
5	GND	6	GND
7	GND	8	GND
9	VGA_+5V	10	GND
11	NC	12	DDC_DATA_VGA
13	HSYNC_VGA	14	VSYNC_VGA
15	DDC_CLK_VGA	MH1	CHASIS_GND

LAN1 Port

Connector type: RJ45 port with LEDs



Pin	Definition	Pin	Definition
1	LAN2_MDI0P	2	LAN2_MDI0N
3	LAN2_MDI1P	4	LAN2_MDI1N
5	AVDD12_PHY2	6	LAN2TCTG
7	LAN2_MDI2P	8	LAN2_MDI2N
9	LAN2_MDI3P	10	LAN2_MDI3N
11	LAN2_LINK1G#	12	LAN2_LINK100#
13	LAN2_LED_ACT#	14	V_3P3_LAN
MH1	CHASIS_GND	MH2	CHASIS_GND



LAN2 Port

Connector type: RJ45 port with LEDs

Connector location: LAN2



Pin	Definition	Pin	Definition
1	LAN1_MDI0P	2	LAN1_MDI0N
3	LAN1_MDI1P	4	LAN1_MDI1N
5	AVDD12_PHY1	6	LAN1TCTG
7	LAN1_MDI2P	8	LAN1_MDI2N
9	LAN1_MDI3P	10	LAN1_MDI3N
11	LAN1_LINK1G#	12	LAN1_LINK100#
13	LAN1_LED_ACT#	14	V_3P3_LAN
MH1	CHASIS_GND	MH2	CHASIS_GND

USB 3.0 Ports

Connector type: USB 3.0 port, Type A Connector location: CN11 and CN12



CN11

Pin	Definition	Pin	Definition
1	P5V_OC23_C	2	USB_3N_C
3	USB_3P_C	4	GND
5	USB3_RX2_N_C	6	USB3_RX2_P_C
7	GND	8	USB3_TX2_N_C
9	USB3_TX2_P_C	MH1	CHASIS_GND
MH2	CHASIS_GND	MH3	CHASIS_GND
MH4	CHASIS_GND		

CN12

Pin	Definition	Pin	Definition
1	P5V_OC23_C	2	USB_2N_C
3	USB_2P_C	4	GND
5	USB3_RX1_N_C	6	USB3_RX1_P_C
7	GND	8	USB3_TX1_N_C
9	USB3_TX1_P_C	MH1	CHASIS_GND
MH2	CHASIS_GND	MH3	CHASIS_GND
MH4	CHASIS_GND		



Internal Connectors USB 3.0 Port

Connector type: 2x10 20-pin header, 2.0mm pitch

Connector location: CN4



Pin	Definition	Pin	Definition
1	P5V_OC01_C	2	USB3_RX4_N_C
3	USB3_RX4_P_C	4	GND
5	USB3_TX4_N_C	6	USB3_TX4_P_C
7	GND	8	USB_1N_R
9	USB_1P_R	10	USB3_ID
11	USB_OP_R	12	USB_ON_R
13	GND	14	USB3_TX3_P_C
15	USB3_TX3_N_C	16	GND
17	USB3_RX3_P_C	18	USB3_RX3_N_C
19	P5V_OC01_C		

USB 2.0 Ports

Connector type: 1x6 6-pin header, 2.0mm pitch

Connector location: J1 and J2



J1

Pin	Definition	Pin	Definition
1	P5V_OC45_C	2	USB4-
3	USB4+	4	USB5-
5	USB5+	6	GND

J2

Pin	Definition	Pin	Definition
1	P5V_OC45_C	2	USB6-
3	USB6+	4	USB7-
5	USB7+	6	GND



+12V Power Connector

Connector type: 2x2 4-pin header, 4.2mm pitch

Connector location: CON1



Pin	Definition	Pin	Definition
1	GND	2	GND
3	±12\/	1	±12\/

CPU FAN Connector

Connector type: 1x4 4-pin header, 2.54mm pitch



Pin	Definition	Pin	Definition
1	GND	2	+12V
3	FAN TAC	4	FAN CTL



System FAN Connector

Connector type: 1x4 4-pin header, 2.54mm pitch

Connector location: FAN2





Keyboard and Mouse Connector

Connector type: 1x6 6-pin header, 2.0mm pitch

Connector location: J5

1 00000 6

Pin	Definition	Pin	Definition
1	K/M_VCC	2	LKBDAT
3	LKBCLK	4	LMDAT
5	LMCLK	6	GND_BLK



COM1 Box Header Connector

Connector type: 2x5 10-pin header, 2.0mm pitch

Connector location: CN10



Pin	Definition	Pin	Definition
4		2	
1	COM_DCD#1	2	COM_RXD1
3	COM_TXD1	4	COM_DTR#1
5	GND	6	COM_DSR#1
7	COM_RTS#1	8	COM_CTS#1
9	COM RI#1	10	GND

COM2 Box Header Connector

Connector type: 2x5 10-pin header, 2.0mm pitch



Pin	Definition	Pin	Definition
1	COM_DCD#2	2	COM_RXD2
4	COM_TXD2	4	COM_DTR#2
5	GND	6	COM_DSR#2
7	COM_RTS#2	8	COM_CTS#2
9	COM_RI#2_con	10	GND

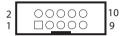


COM3 Box Header Connector

Connector type: 2x5 10-pin header, 2.0mm pitch

COM_RI#3

Connector location: CN8



Pin	Definition	Pin	Definition
1	COM_DCD#3	2	COM_RXD3
3	COM_TXD3	4	COM_DTR#3
5	GND	6	COM_DSR#3
7	COM_RTS#3	8	COM_CTS#3

10

GND

COM4 Box Header Connector

Connector type: 2x5 10-pin header, 2.0mm pitch



Pin	Definition	Pin	Definition
1	COM_DCD#4	2	COM_RXD4
3	COM_TXD4	4	COM_DTR#4
5	GND	6	COM_DSR#4
7	COM_RTS#4	8	COM_CTS#4
9	COM_RI#4	10	GND



Printer Port

Connector type: 2x13 26-pin header, 2.0mm pitch

Connector location: CN3



Pin	Definition	Pin	Definition
1	RPSTB	2	RPSTB0
3	RPSTB1	4	RPSTB2
5	RPSTB3	6	RPSTB4
7	RPSTB5	8	RPSTB6
9	RPSTB7	10	S1_LPTACK#
11	S1_LPTBUSY	12	S1_LPTPE
13	S1_LPTSLCT	14	S1_LPTAFD#
15	S1_LPTERR#	16	S1_LPTINIT#
17	S1_LPTSLIN#	18	GND_P1
19	GND_P1	20	GND_P1
21	GND_P1	22	GND_P1
23	GND_P1	24	GND_P1
25	GND_P1	26	NC

DVI/ HDMI Port Connector

Connector type: 2x15 30-pin header, 1.25mm pitch



Pin	Definition	Pin	Definition
1	DPB_LO_P_R	2	HDMIB_PWR_R
3	DPB_LO_N_R	4	HDMIB_PWR_R
5	GND	6	DPB_PWR_R
7	DPB_L1_P_R	8	DPB_PWR_R
9	DPB_L1_N_R	10	HDMI_DIS
11	GND	12	HDMI_CTRL_CLK
13	DPB_L2_P_R	14	GND
15	DPB_L2_N_R	16	HDMI_CTRL_DATA
17	GND	18	GND
19	DPB_L3_P_R	20	GND
21	DPB_L3_N_R	22	GND
23	GND	24	HDMI_HPD
25	NC	26	GND
27	NC	28	DP_HPD
29	GND	30	GND
MH1	GND	MH2	GND



SATA Connector

Connector type: Standard Serial ATAIII 7P (1.27mm, SATA-M-180)

Connector location: CN1



Pin	Definition	Pin	Definition
1	GND	2	R_SATA_TXP3
3	R_SATA_TXN3	4	GND
5	B_SATA_RXN3	6	B_SATA_RXP3
7	GND		

SATA Connector

Connector type: Standard Serial ATAIII 7P (1.27mm, SATA-M-180)

Connector location: CN2



Pin	Definition	Pin	Definition
1	GND	2	R_SATA_TXP0
3	R_SATA_TXN0	4	GND
5	B_SATA_RXN0	6	B_SATA_RXP0
7	GND		

17



SATA Connector

Connector type: Standard Serial ATAIII 7P (1.27mm, SATA-M-180)

Connector location: CN5



Pin	in Definition		Definition
1	GND	2	R_SATA_TXP2
3	R_SATA_TXN2	4	GND
5	B_SATA_RXN2	6	B_SATA_RXP2
7	GND		

SATA Connector

Connector type: Standard Serial ATAIII 7P (1.27mm, SATA-M-180)



Pin	Pin Definition		Definition
1 GND		2	R_SATA_TXP1
3	R_SATA_TXN1	4	GND
5	B_SATA_RXN1	6	B_SATA_RXP1
7	GND		



COM2 RI# Voltage Select

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

Connector location: JP5



Pin	Definition	Pin	Definition
1	VCC5	2	COM_RI#2_con
3	+12V	4	COM_RI#2_con
5	COM_RI#2	6	

SATA DOM Power Connector

Connector type: 1x2 2-pin header, 2.54mm pitch



Pin	Definition	
1	VCC5	
2	GND	



LAN LED Pin Header

Connector type: 2x4 8-pin header, 2.00mm pitch

Connector location: JP8



Pin	Definition	Pin	Definition
1	1 LAN1_LED_ACT#		LAN2_LED_ACT#
3	3 V_3P3_LAN		V_3P3_LAN
5	LAN1_LINK1G#	6	LAN2_LINK1G#
7	LAN1 LINK100#	8	LAN2 LINK100#

Power On/Off/Reset & PWR/HDD LED Pin Header

Connector type: 2x8 16-pin header, 2.54mm pitch

2	0	0	0	0	0	0	0	0	16
1		0	0	0	0	0	0	\circ	15

Pin	Definition	Pin	Definition
1	SATA_LED_P	2	PWR_LED_P
3	SATA_LED#	4	GND
5	GND	6	BTN_A#
7	RST_BTN#	8	GND
9	SPKR_OUT	10	SMB_CLK_MAIN
11	NC	12	SMB_DATA_MAIN
13	NC	14	S1_SYSTIN
15	SPKR_IN	16	SAHWGND



DIP Switch

Connector type: 2x2 4-pin DIP switch

Connector location: SW1



Pin	Description		
SW1.1	OFF: Control by SW1.2		
I C\A/1 7	ON: PCle x1		
3001.2	OFF: PCle x4		

Debug Port

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

Pin	n Definition		Definition
1 GND		2	RST_SIO_N
3 CLK_PCI_P80		4	LPC_FRAME#
5 LPC_AD3		6	LPC_AD2
7 LPC_AD1		8	LPC_AD0
9	VCC3	10	VCC3
MH1	GND	MH2	GND



Chapter 3: BIOS Setup

This chapter describes how to use the BIOS setup program for the PEAK 887VL2. 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. Another way to enter Setup is to power on the computer and wait for the following message during the POST:

TO ENTER SETUP BEFORE BOOT PRESS Ctrl + + + +

Press the Del key to enter Setup:

Legends

Key	Function
← →	Moves the highlight left or right to select a menu.
1	Moves the highlight up or down between sub-menus or fields.
Esc	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.
Tab Main and the second seco	Selects a field.
F1	Displays General Help.
F2	Load previous values.
F3	Load optimized default values.
F4	Saves and exits the Setup program.
Enter	Press <enter> to enter the highlighted sub-menu</enter>



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 " \blacktriangleright " 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 \blacksquare .

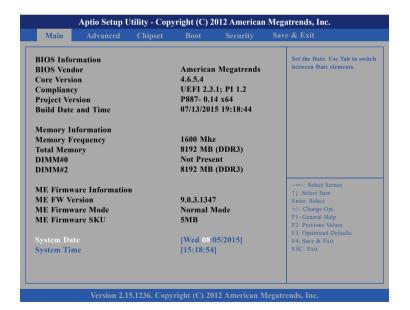


BIOS Setup Utility

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 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.

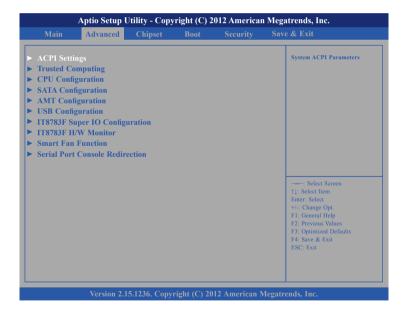


Advanced

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.

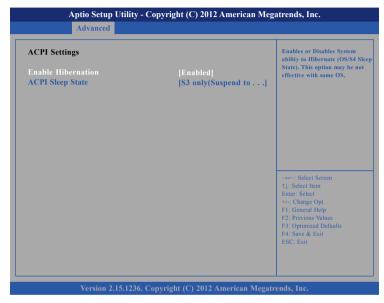


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ACPI Settings

This section is used to configure ACPI settings.



Enable Hibernation

Enables or Disables System ability to Hibernate (OS/S4 Sleep State). This option may be not 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 S1 (CPU Stop Clock) and S3 (Suspend to RAM).

Trusted Computing

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



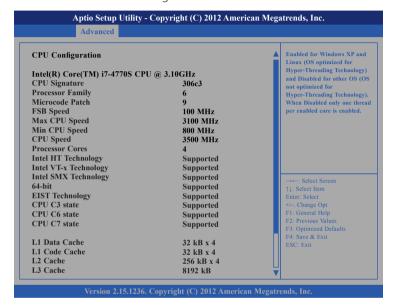
Security Device Support

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.



CPU Configuration

This section is used to configure the CPU.



Hyper-Threading

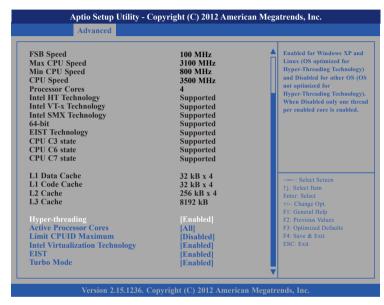
This field is used to enable or disable hyper-threading.

Active Processor Cores

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

Limit CPUID Maximum

The CPUID instruction of some newer CPUs will return a value greater than 3. The default is Disabled because this problem does not exist in the Windows series operating systems. If you are using an operating system other than Windows, this problem may occur. To avoid this problem, enable this field to limit the return value to 3 or lesser than 3.



Intel® Virtualization Technology

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

EIST

Enables or disables Intel® SpeedStep.

Turbo Mode

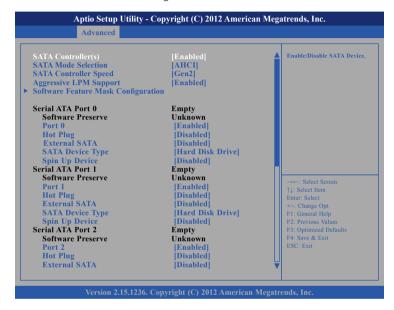
Enables or disables turbo mode.





SATA Configuration

This section is used to configure the SATA drives.



SATA Controller(s)

Enables or disables the SATA controller.

SATA Mode Selection

Configures the SATA mode.

IDE This option configures the Serial ATA drives as Parallel ATA

physical storage device.

This option configures the Serial ATA drives to use AHCI (Advanced Host Controller Interface), AHCI allows the storage

driver to enable the advanced Serial ATA features which will

increase storage performance.



SATA Controller Speed

Configures the speed of the SATA controller.

Aggressive LPM Support

Enables or disables aggressive LPM support.

Port 0 to Port 3

Enables or disables SATA port 0 to port 3.

AHCI





Hot Plug

Enables or disables hot plugging feature on SATA port 0 to port 3.

External SATA

Enables or disables the external SATA option on SATA port 0 to port 3.

SATA Device Type

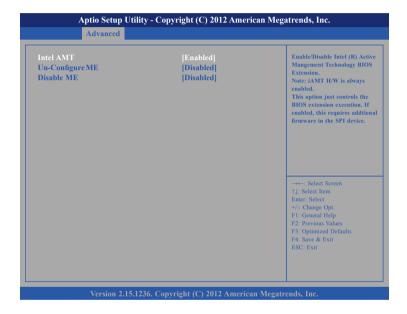
The options are Hard Disk Drive and Solid State Drive.

Spin Up Device

Enables or disables staggered spin up on devices connected to SATA port 0 to port 3.

AMT Configuration

This section is used to configure Active Management Technology (AMT) options.



Intel® AMT

Enables or disables Intel® Active Management Technology.

Un-Configure ME

Enables or disables Un-configure ME without password.

Disable ME

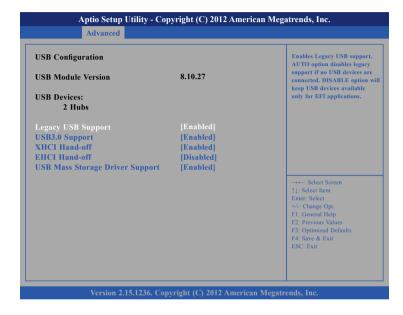
Set ME to Soft Temporary Disabled.





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.

USB3.0 Support

Enables or disables USB 3.0 controller support.

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.

FHCI Hand-off

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

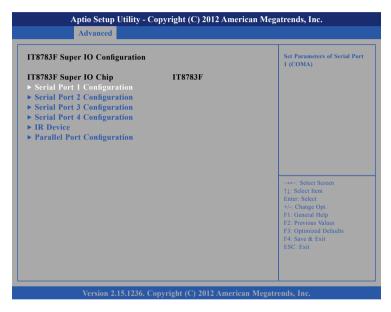
USB Mass Storage Driver Support

Enables or disables USB mass storage driver support.



IT8783F Super IO Configuration

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

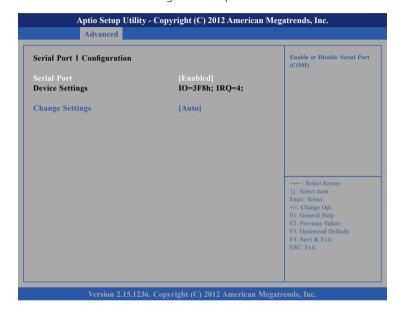


IT8783F Super IO Chip

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

Serial Port 1 Configuration

This section is used to configure serial port 1.



Serial Port

Enables or disables the serial port.

Change Settings

Selects an optimal setting for the Super IO device.



Serial Port 2 Configuration

This section is used to configure serial port 2.



Serial Port

Enables or disables the serial port.

Change Settings

Selects an optimal setting for the Super IO device.

Onboard Serial Port 2 Mode

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

Onboard Serial Port Max Baud Rate

Select this to change the max baud rate of the serial port.

RS-485/422 Receiver Termination

Enables or disables RS-485/422 receiver termination.



Serial Port 3 Configuration

This section is used to configure serial port 3.



Serial Port

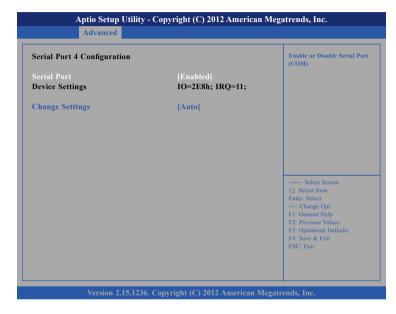
Enables or disables the serial port.

Change Settings

Selects an optimal setting for the Super IO device.

Serial Port 4 Configuration

This section is used to configure serial port 4.



Serial Port

Enables or disables the serial port.

Change Settings

Selects an optimal setting for the Super IO device.



IR Device

This section is used to configure the IR device.

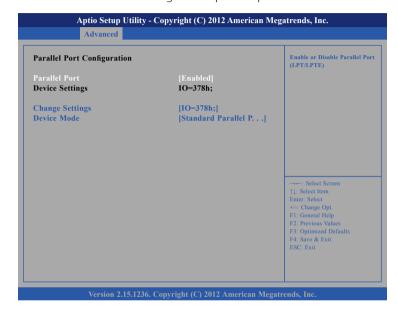


Serial Port

Enables or disables the serial port.

Parallel Port Configuration

This section is used to configure the parallel port.



Parallel Port

Enables or disables the parallel port.

Change Settings

Selects an optimal setting for the Super IO device.

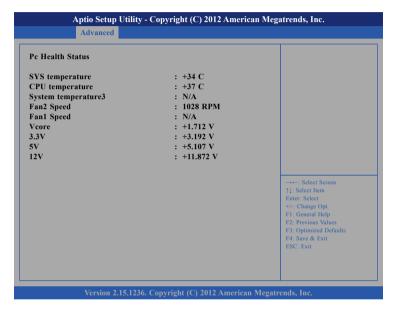
Device Mode

Configures the operating mode of the parallel port. The options are Standard Parallel Port Mode, EPP Mode, ECP Mode, EPP Mode & ECP Mode.



IT8783F H/W Monitor

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



SYS Temperature

Detects and displays the current system temperature.

CPU Temperature

Detects and displays the current CPU temperature.

System Temperature3

Detects and displays the current temperature of system 3.

Fan2 Speed

Detects and displays system fan2 speed.

Fan1 Speed

Detects and displays system fan1 speed.

Vcore

Detects and displays the Vcore CPU voltage.

3.3V

Detects and displays 3.3V voltage.

5V

Detects and displays 5V voltage.

12V

Detects and displays 12V voltage.



Smart Fan Function

This section is used to configure the fan's function.



FAN Setting

Configures the operating mode of the fan.

Set Temp.-active S.F.

Configures the temperature threshold to activate smart fan.

Set Temp.-active Full Run

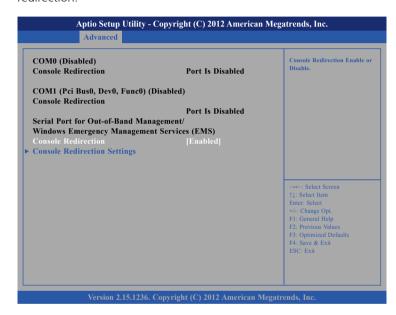
Configures the temperature threshold to activate the fan in full speed.

Initial FAN Speed (S.F.)

Configures the starting fan speed of smart fan.

Serial Port Console Redirection

This section is used to configure the serial port that will be used for console redirection



Console Redirection

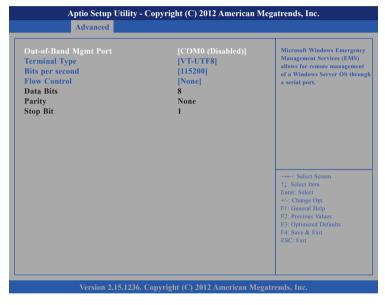
Enables or disables console redirection.





Console Redirection Settings

Specifies how the host computer and the remote computer (which the user is using) will exchange data. Both computers should have the same or compatible settings.



Out-of-Band Mgmt Port

Enables or disables Microsoft Windows Emergency Management Services (EMS) for allowing remote management of a Windows Server OS through a serial port.

Terminal Type

ANSI Extended ASCII character set.

VT100 ASCII character set.

VT100+ Extends VT100 to support color, function keys, etc.
VT-UTF8 Uses UTF8 encoding to map Unicode characters onto 1

or more bytes.

Bits Per Second

Selects the serial port transmission speed. The speed must match the other side. Long or noisy lines may require a lower speed.

Flow Control

Flow control can prevent data loss from buffer overflow. When sending data and the receiving buffers are full, a "stop" signal can be sent to stop the data flow

Data Bits

Displays the current setting of Data Bits.

Parity

Displays the current setting of Parity.

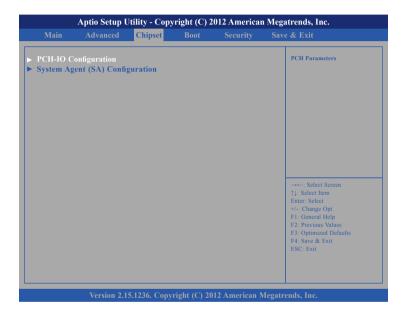
Stop Bits

Stop bits indicate the end of a serial data packet. (A start bit indicates the beginning). The standard setting is 1 stop bit. Communication with slow devices may require more than 1 stop bit.



Chipset

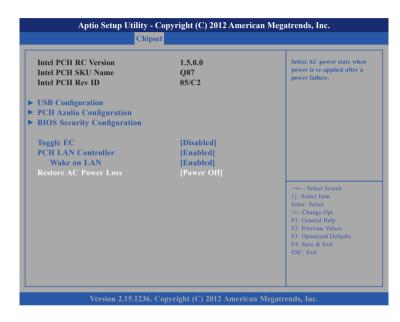
This section is used to configure the system based on the specific features of the chipset.





Setting incorrect field values may cause the system to malfunction.

PCH-IO Configuration



Toggle EC

Enables or disables Toggle EC.

PCH LAN Controller

Enables or disables onboard NIC.

Wake on LAN

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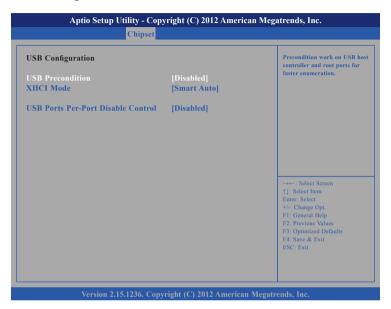
Enables or disables integrated LAN to wake the system.

Restore AC Power Loss

Select AC power state when power is re-applied after a power failure.



USB Configuration



USB Precondition

Enables or disables precondition work on USB host controller and root ports for faster enumeration.

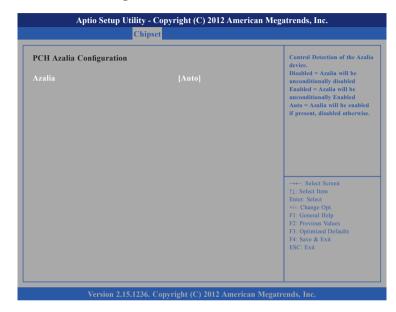
XHCI Mode

Configures USB 3.0 ports as USB 2.0 ports.

USB Ports Per-Port Disable Control

Enables or disables control of each USB port.

PCH Azalia Configuration



Azalia

Control Detection of the Azalia device.

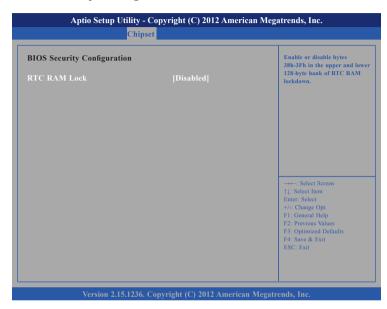
Disabled Azalia will be unconditionally disabled.

Enabled Azalia will be unconditionally disabled.

Auto Azalia will be enabled if present, disabled otherwise.



BIOS Security Configuration



RTC RAM Lock

Enables or disables bytes 38h-3Fh in the upper and lower 128-byte bank of RTC RAM lockdown.

System Agent (SA) Configuration



VT-d

Enables or disables VT-d function on MCH.

Graphics Configuration

Configures the graphic chip settings.

NB PCle Configuration

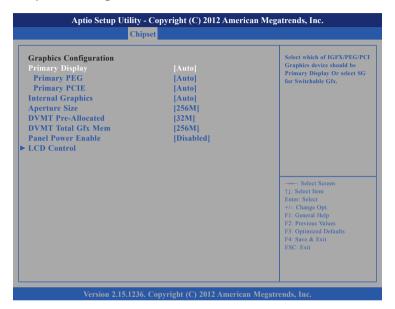
Configures the NB PCI Express settings.

Memory Configuration

Configures the memory settings.



Graphics Configuration



Primary Display

Select which of IGFX/PEG/PCI graphics device should be primary display or select SG for switchable GFx.

Primary PEG

Select which PEG device should be the primary PEG.

Primary PCIE

Select which PCIE device should be the primary PCIE.

Internal Graphics

Keep IGD enabled based on the setup options.

Aperture Size

Select the Aperture size.

DVMT Pre-Allocated

Select DVMT 5.0 pre-allocated (fixed) graphics memory size used by the internal graphics device.

DVMT Total Gfx Mem

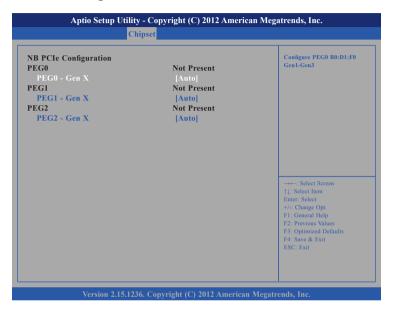
Select DVMT 5.0 Total Graphic Memory size used by the Internal Graphics Device.

Panel Power Enable

Enables or disables panel power.



NB PCle Configuration



PEG0 - Gen X

Configure PEG0 B0:D1:F0 Gen1-Gen3.

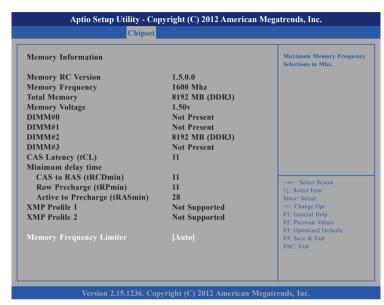
PEG1 - Gen X

Configure PEG1 B0:D1:F1 Gen1-Gen3.

PEG2 - Gen X

Configure PEG2 B0:D1:F2 Gen1-Gen3.

Memory Configuration



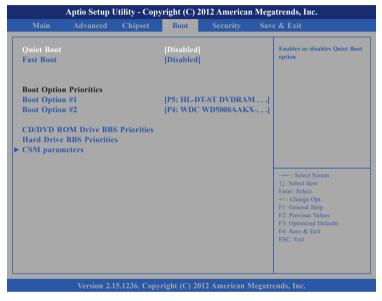
Memory Frequency Limiter

Configures the maximum frequency of the memory.



Boot

This section is used to configure the boot features.



Quiet Boot

Enabled Displays OEM logo instead of the POST messages.

Disabled Displays normal POST messages.

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.

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.

CD/DVD ROM Drive BBS Priorities

Use the CD/DVD ROM Drive BBS priorities options to set the order of the devices in this group.

Hard Drive BBS Priorities

Use the Hard Disk Drive BBS priorities options to set the order of the devices in this group.

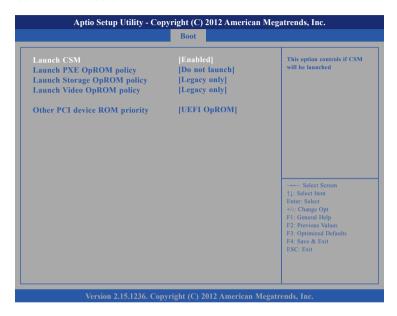
CSM Parameters

Parameters for OpROM execution, boot options, filter, etc.





CSM Parameters



Launch CSM

This option controls if CSM will be launched.

Launch PXE OpROM Policy

Controls the execution of UEFI and legacy PXE OpROM.

Launch Storage OpROM Policy

Controls the execution of UEFI and legacy storage OpROM.

Launch Video OpROM Policy

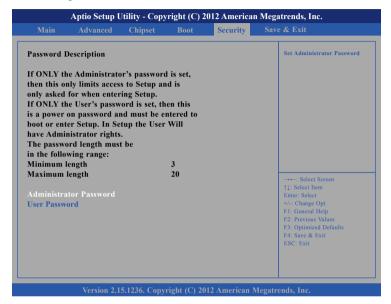
Controls the execution of UEFI and legacy video OpROM.

Other PCI Device ROM Priority

Configures what PCI devices for ROM to launch other than network, mass storage or video.



Security



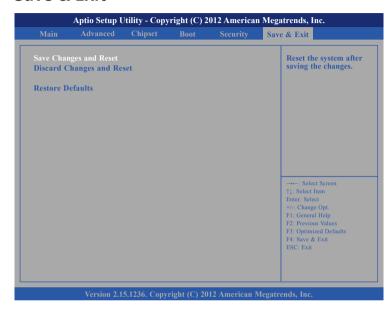
Administrator Password

Select this to reconfigure the administrator's password.

User Password

Select this to reconfigure the user's password.

Save & Exit



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.

Restore Defaults

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



Warning Information



Warning:
Because BIOS flashing is potentially risky, we do NOT recommend to change any version of BIOS if current version of BIOS is fine.

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