NEXCOM International Co., Ltd.

Intelligent Platform & Services Business Unit

Digital Signage Platform

NDiS B337

User Manual

NEXCOM International Co., Ltd.
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PREFACE

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Acknowledgements

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Regulatory Compliance Statements

This section provides the FCC compliance statement for Class A 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 A 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.

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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.

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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.

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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.

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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.

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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.

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Package Contents

Before continuing, verify that the NDiS B337 package that you received is complete. Your package should have all the items listed in the following table.

Item	Part Number	Name	Qty
1	10W00B33700X0	NDiS B337 Fanless Box PC with 2 COM ports (A300)	
2	19W00B33700X0	NDiS B337 ASSY	1
3	5060200234X00	Thermal Pad For NISE50 E-LIN 35x15x1.0mm S3S K=2.0w/mk	1
4	5060200503X00	Thermal Pad E-LIN 65x20x1.0mm K=1.4W/mk S3S	1
5	60110A0237X00	Inner Box For NDiS B325-SI3L Ver:A YI GIA 335x259x92mm Paper B Flute 14KG	1
6	60111A0631X00	Outside Carton For NDiS B325-SI3L Ver:A YI GIA 486x351x288mm Paper AB Flute 18KG	1
7	6012200053X00	PE Zipper Bag #3 100x70mm,W/China RoHS Symbol	2
8	6012200062X00	PE Bag For DNA730/840 Panadvance 350x330mm T:0.08mm With ROHS Symbol	1
9	6012200104X00	Antistaic Air Bag ASSY FSC_BASE-N FU-DING (25+29)x20cm Color: Red	1
10	6013301543X00	EPE For NDiS B360 Series Ver:A FULPAK 310x87x95mm EPE	2
11	6014606898X00	Label Blank WAI GHA 60x60mm Art Paper CLW5	2
12	Z200004969X00	Ver: Model: NDiS B337 SKU: P/N: UPC: ISO: Power: B_NAME:	1
13	7400060044X00	Power Adapter FSP:FSP060-DHAN3 60W 12V/5A W/Lock For IEC/EN 62368	1
14	50311F0100X00	(H)Round Head Screw W/Spring+Flat Washer Long Fei:P3x6L P3x6 iso/SW6x0.5 NI	4
15	5040420028X00	NISE105 Wall Mount Bracket Ver:A CHYUAN-JYH 115x25x6mm SPCC NI 1.2T	2
16	6012200052X00	PE Zipper Bag #8 170x240mm,W/China RoHS Symbol	1

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Ordering Information

The following information below provides ordering information for NDiS B337.

NDiS B337 (P/N: 10W00B33700X0)

Intel® Celeron® J3455 processor extended temperature system with
2 COM ports

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Chapter 1: Product Introduction

Overview

Powered by IIntel® Celeron® processor, the NDiS B337 fanless embedded player can handle 2 independence display output. The NDiS B337 supports HDMI display, USB 3.0 ports, and a RS232/RS422/RS485 interface, is an ideal embedded player to optimize information visualization, convey brand messages, customer engagement, and smart retail management efficiencies to increase in-store traffic and sales. Also could be applicate as gateway for smart city.

The NDiS B337 series is a slim/fanless player with extended temperature durability further extends to outdoor usage like QSR drive through kiosks, box office displays, information stands, bus stops, or digital transit information signs. It is also ideal as a digital signage player delivering enhanced performance and new immersive experiences for advertising, hospitality and brand promotion applications.

Key Features

- Intel® Celeron® J3455 processor
- Support 2 x HDMI1.4b output
- Support power input 12 VDC
- Fanless design
- Slim chassis design (40mm)
- Fanless design
- 1 x DDR3L up to 8GB
- M.2 2242 Key M for storage device
- mini-PCIe slot support Wi-Fi and LTE module
- Extended temperature -20~60°C

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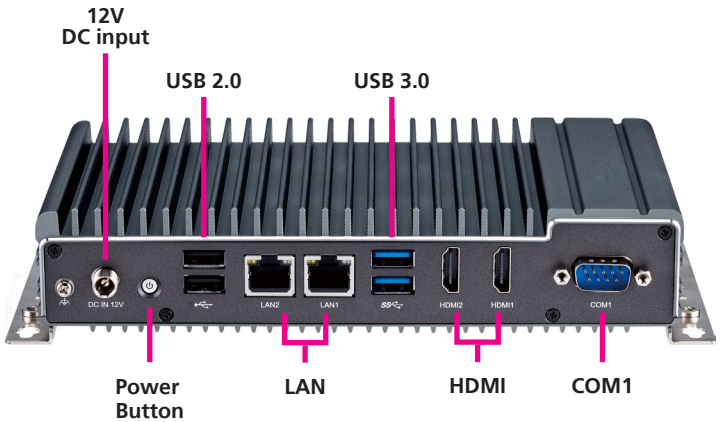
Physical Features

Front Panel



Rear Panel

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Hardware Specifications

CPU Support

- Intel® Celeron® J3455 processor (2.30GHz, 10W)

Graphics

- Intel® HD graphics 500

Main Memory

- 1 x 204-pin SO-DIMM socket, support up to DDR3L 1600MHz, nonECC, un-buffered memory up to 8GB

I/O Interface-Front

- 1 x 2 x RJ45 with LEDs for Gigabit LAN
- 2 x HDMI 1.4b, resolution 3840 x 2160 30Hz
- 2 x USB 3.0
- 2 x USB 2.0
- 1 x Power button with LED
- 1 x DC-in Jack with lock
- 1 x RS232/RS422/RS485 (COM1)

I/O Interface-Rear

- 2 x Antenna hole
- 1 x RS232 (COM2)
- 1 x Storage active LED
- 1 x Audio jack

Internal I/O

- 1 x TPM module connector

Storage

- 1 x M.2 2242 Key M SSD

Expansion

- 1 x mini-PCIe full-size connector with SIM slot (nano) onboard, support Wi-Fi/LTE module

Power Supply

- 1x External 60W AC/DC power adapter with lock (power adapter is
- included in accessory)
- Input: 100VAC to 240VAC
- Output: +12VDC

Environment

- Operating temperature: -20°C to 60°C
- Storage temperature: -20°C to 80°C
- Humidity: 95% (non-condensing)
- Shock protection: 50G peak acceleration, 11ms according to IEC60068-2-27
- Vibration protection
  - Random: 2Grms@5~500 Hz, IEC60068-2-64
  - Sinusoidal: 2G@5~500 Hz, IEC60068-2-6

Dimensions

- 200mm (W) x 117.6mm (D) x 40mm (H)

Certification

- CE (EN55035 + EN55032)
- FCC Class A (EMI Part 15B)
- LVD (EN62368-1)

Operating System

- Win10 64-bit
- Linux 4.1

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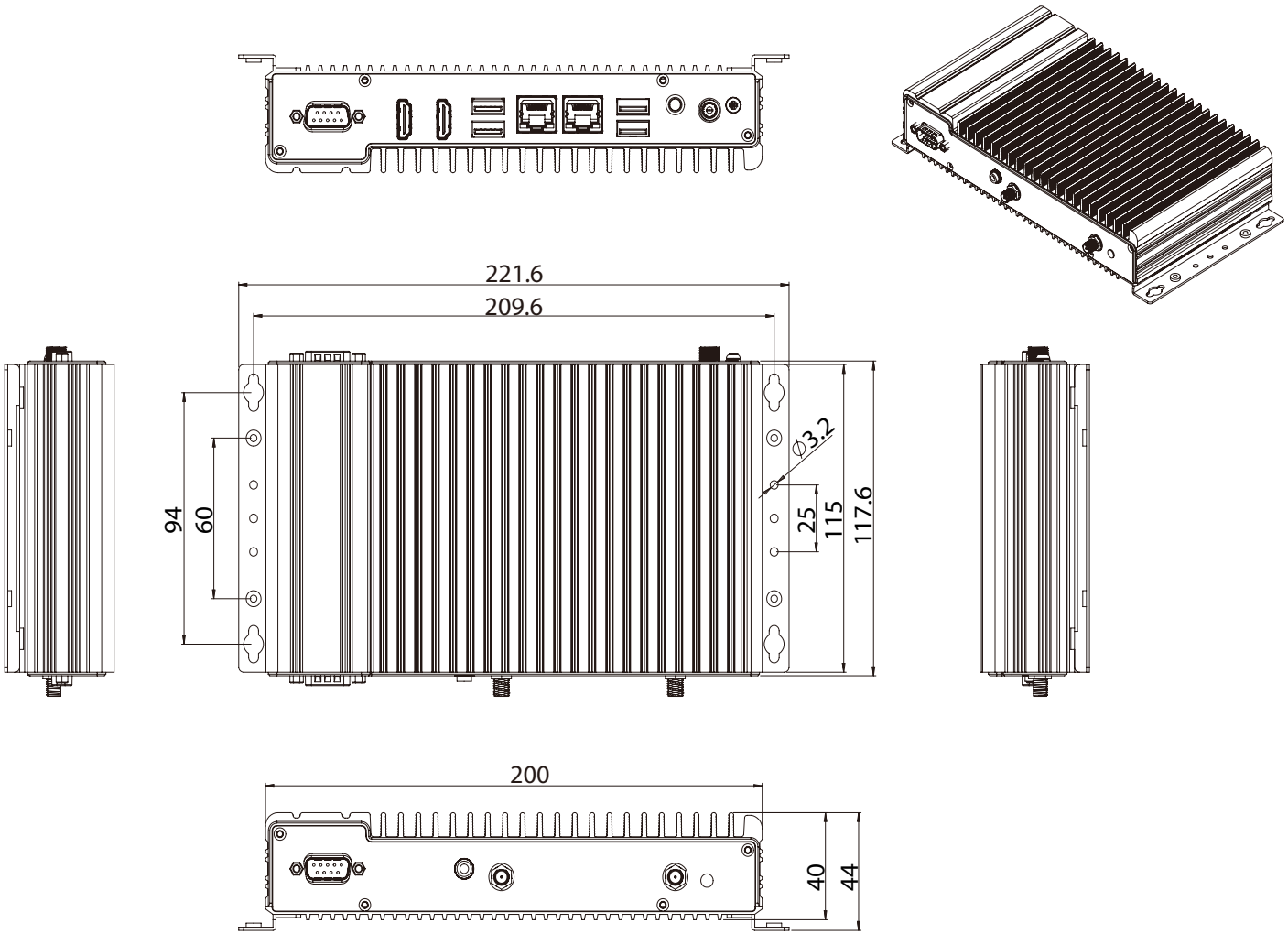
Mechanical Dimensions



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Chapter 2: Jumpers and Connectors

This chapter describes how to set the jumpers and connectors on the NDiS B337 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.

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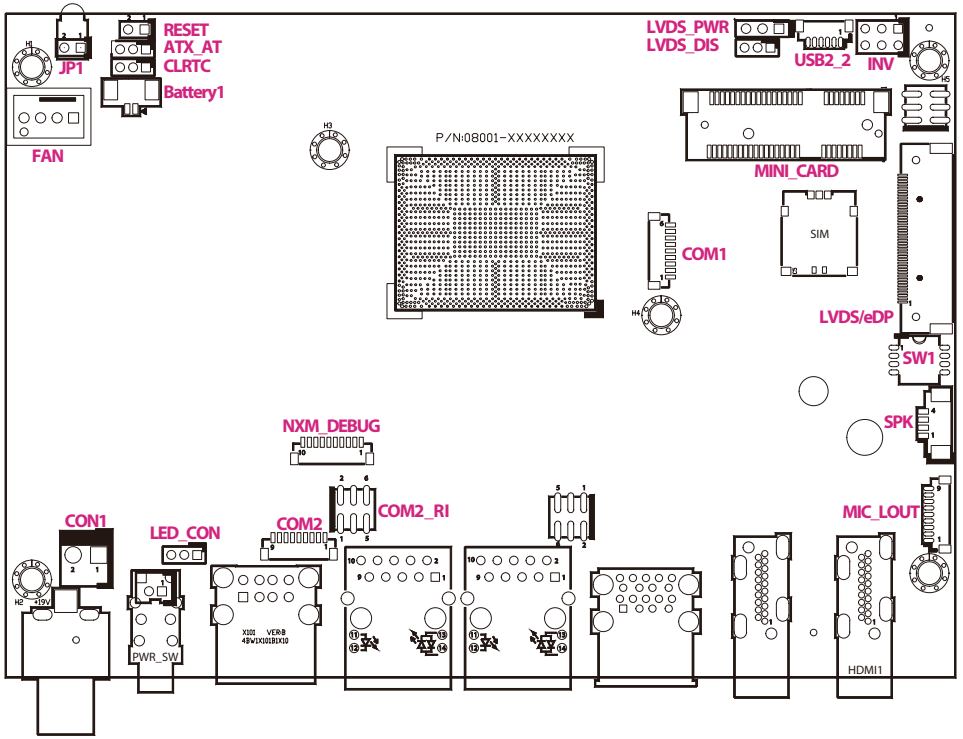
Locations of the Jumpers and Connectors for NDiS B337

The figure below is the top view of the mainboard used in the NDiS B337.
It shows the locations of the jumpers and connectors.

Top View



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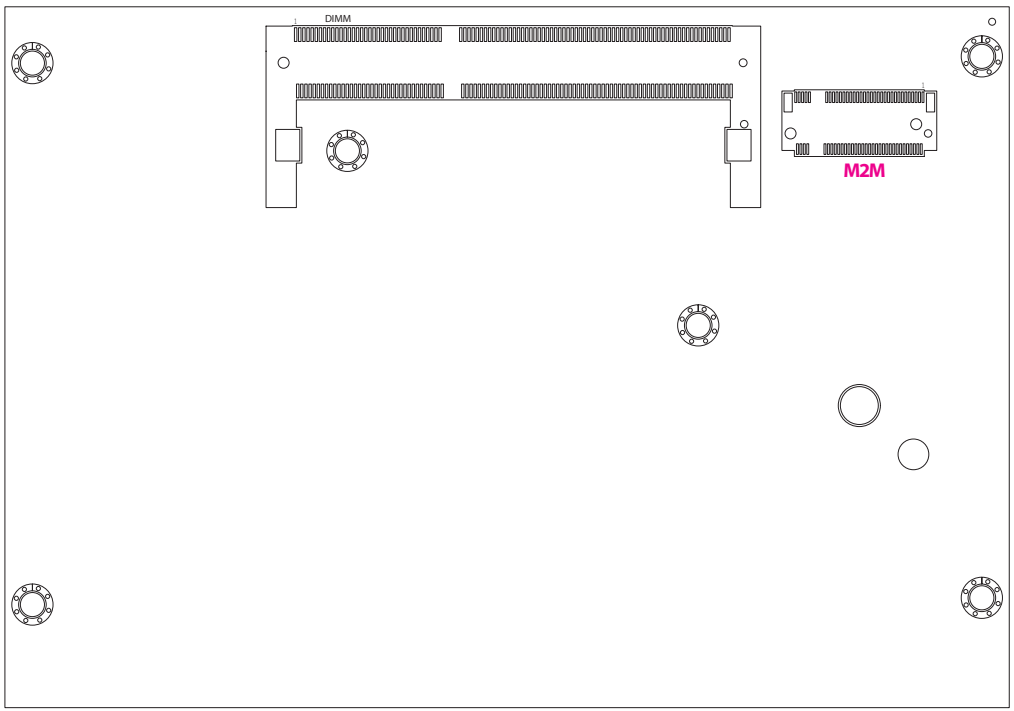
Bottom View



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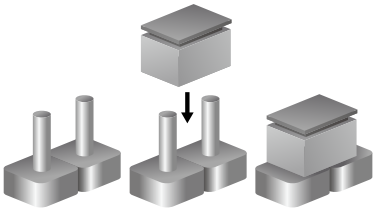
Jumper Settings

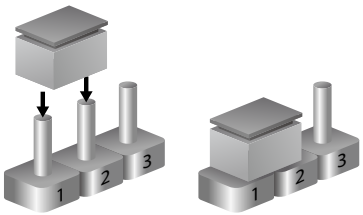
A jumper is the simplest kind of electric switch. It consists of two metal pins and a cap. When setting the jumpers, ensure that the jumper caps are placed on the correct pins. When the jumper cap is placed on both pins, the jumper is short. If you remove the jumper cap, or place the jumper cap on just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



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Jumpers & DIP Switches

AT/ATX Mode Select

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

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

1-2 On: default

Clear CMOS

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

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

1-2 On: default

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LVDS Panel Voltage Select

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

Pin	Settings
1-2 On	3.3V
2-3 On	5V

1-2 On: default

LVDS Enable Select

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

Pin	Settings
1-2 On	Enable
2-3 On	Disable

1-2 On: default

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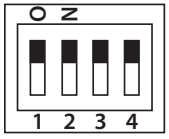
LVDS Resolution Select

Connector type: 4-pin DIP switch
Connector location: SW1



SW [3:0]	SW1 [3]	SW1 [2]	SW1 [1]	SW1 [0]	HA	VA	CD(bit)	port
0000	ON	ON	ON	ON	800	600	6	single
0001	ON	ON	ON	OFF	1024	768	6	single
0010	ON	ON	OFF	ON	1024	768	8	single
0011	ON	ON	OFF	OFF	1280	1024	6	single
0100	ON	OFF	ON	ON	1280	800	6	single
0101	ON	OFF	ON	OFF	1280	800	8	single
0110	ON	OFF	OFF	ON	1280	1024	8	dual
0111	ON	OFF	OFF	OFF	1366	768	6	single
1000	OFF	ON	ON	ON	1366	768	8	single
1001	OFF	ON	ON	OFF	1440	900	8	dual
1010	OFF	ON	OFF	ON	1400	1050	8	dual
1011	OFF	ON	OFF	OFF	1600	900	8	dual
1100	OFF	OFF	ON	ON	1680	1050	8	dual
1101	OFF	OFF	ON	OFF	1600	1200	8	dual
1110	OFF	OFF	OFF	ON	1920	1080	8	dual
1111	OFF	OFF	OFF	OFF	1920	1200	8	dual

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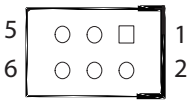
Connector Pin Definitions

Internal Connectors

LVDS Inverter Connector

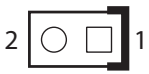
Connector type: 2x3 6-pin header JST, 2.54mm pitch
Connector location: INV



Pin	Definition	Pin	Definition
1	GND	2	GND
3	12V	4	12V
5	INV_ENABKL	6	BKLTCTRL_V

System Reset Header

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



Pin	Definition
1	RESET#
2	GND

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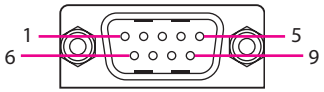
Power LED Connector

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

Pin	Definition
1	POWER_LED
2	STBY_LED_8
3	GND

COM Port Connector

Connector type: WTOB CON, 9-pin, 1.0mm
Connector location: COM1



RS232		RS422		RS485	
Pin	Definition	Pin	Definition	Pin	Definition
1	DCD	1	TX-	1	TR-
2	RXD	2	TX+	2	TR+
3	TXD	3	RX+	3	
4	DTR	4	RX-	4	
5	GND	5		5	
6	DSR	6		6	
7	RTS	7		7	
8	CTS	8		8	
9	RI	9		9	

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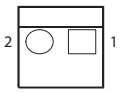
DC Power Input

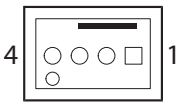
Connector type: 1x2 2-pin header, 3.96mm pitch
Connector location: CON1



Pin	Definition
1	GND
2	+DC_IN

FAN Connector

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



Pin	Definition	Pin	Definition
1	GND	2	12V
3	FANIN	4	FANOUT

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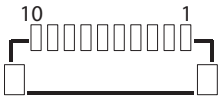
Debug Port/LPC Bus Connector

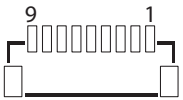
Connector type: 1x10 10-pin header, 1.0mm pitch
Connector location: NXM_DEBUG



Pin	Definition	Pin	Definition
1	+3V	2	SERIRQ
3	LAD0	4	LAD1
5	LAD2	6	LAD3
7	LFRAME#	8	25MHZ
9	PLTRST#	10	GND

COM Port Connector

Connector type: 1x9 9-pin header, 1.0mm pitch
Connector location: COM2



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

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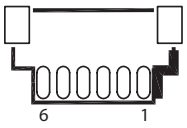
USB2.0 Connector

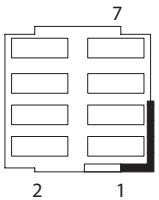
Connector type: 1x6 6-pin header
Connector location: USB2_2



Pin	Definition	Pin	Definition
1	GND	2	S_USB2DN5
3	S_USB2DP5	4	S_USB2DN4
5	S_USB2DP4	6	+5V_USB2_P45

BIOS update connector

Connector type: 2x4 8-pin header, 1.27mm pitch
Connector location: SPI



Pin	Definition	Pin	Definition
1	+1.8V_SPI	2	SPI_CS0#_F
3	SPI_HOLD#	4	SPI_SO_F
5	SPI_CLK_F	6	SPI_D2_WP#
7	SPI_SI_F	8	GND

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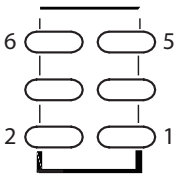
SIM Card Connector

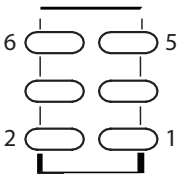
Connector type: 2x3 6-pin header, 2.0mm pitch
Connector location: SIM1



Pin	Definition	Pin	Definition
1	UIM_DATA_R	2	UIM_CLK_R
3	UIM_VPP_R	4	UIM_RESET_R
5	GND	6	UIM_PWR_R

GPIO Connector

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



Pin	Definition	Pin	Definition
1	GPIO_PWR	2	GPO_GND
3	GPO0_OUT	4	GPI0_IN
5	GPO1_OUT	6	GPI1_IN

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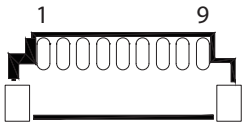
Audio MIC Line Out Connector

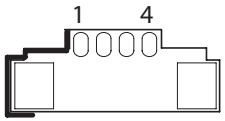
Connector type: 1x9 9-pin header, 1.0mm pitch
Connector location: MIC_LOUT



Pin	Definition	Pin	Definition
1	A_LOUT_R	2	LINEOUT_JD
3	NC	4	A_LOUT_L
5	GND	6	A_MIC1_R
7	MIC_JD	8	A_MIC1_L
9	GND		

Speaker Connector

Connector type: 1x4 4-pin header, 1.25mm pitch
Connector location: SPK



Pin	Definition	Pin	Definition
1	LOUTP_40	2	LOUTN_40
3	ROUTP_40	4	ROUTN_40

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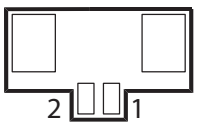
Battery Connector

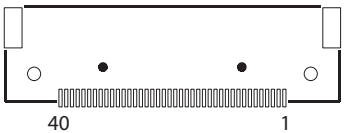
Connector type: 1x2 2-pin header, 1.25mm pitch
Connector location: BATTERY1



Pin	Definition
1	BAT
2	GND

LVDS Panel Connector

Connector type: 1x40 40-pin header, 0.5mm pitch
Connector location: LVDS



Pin	Definition	Pin	Definition
1	LVDS0_D3+	2	LVDS0_D3-
3	LVDS0_D2+	4	LVDS0_D2-
5	LVDS0_D1+	6	LVDS0_D1-
7	LVDS0_D0+	8	LVDS0_D0-
9	LVDS1_D3+	10	LVDS1_D3-
11	LVDS1_D2+	12	LVDS1_D2-
13	LVDS1_D1+	14	LVDS1_D1-
15	LVDS1_D0+	16	LVDS1_D0-
17	GND	18	+V_PANEL (3.3V or 5V)
19	+V_PANEL (3.3V or 5V)	20	+V_PANEL (3.3V or 5V)
21	GND	22	+V_PANEL (3.3V or 5V)
23	GND	24	GND
25	GND	26	LVDS0_CLK+
27	LVDS0_CLK-	28	GND
29	GND	30	GND
31	N/A	32	Backlight Enable
33	Backlight Control	34	LVDS1_CLK+
35	LVDS1_CLK-	36	+12V
37	+12V	38	+12V
39	+12V	40	N/A

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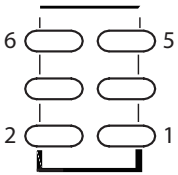
COMPORT Ring Connector

Connector type: 2x3 6-pin, 2.00mm pitch
Connector location: COM2_RI



Pin	Definition	Pin	Definition
1	12V	2	RI_COMPORT
3	5V	4	RI_COMPORT
5	RI	6	RI_COMPORT

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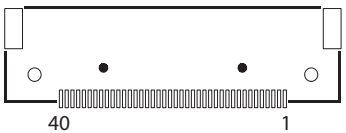
eDP Panel Connector

Connector location: eDP



Pin	Definition	Pin	Definition
1	EDP_3N	2	EDP_3P
3	GND	4	EDP_2N
5	EDP_2P	6	GND
7	EDP_1N	8	EDP_1P
9	GND	10	EDP_0N
11	EDP_0P	12	GND
13	N/A	14	N/A
15	N/A	16	N/A
17	GND	18	+V_PANEL (3.3V or 5V)
19	+V_PANEL (3.3V or 5V)	20	+V_PANEL (3.3V or 5V)
21	GND	22	N/A
23	GND	24	GND
25	GND	26	EDP_AUXP

Pin	Definition	Pin	Definition
27	EDP_AUXN	28	GND
29	GND	30	GND
31	EDP_HPD	32	Back Light Enable
33	Back Light PWM	34	N/A
35	N/A	36	+12V
37	+12V	38	+12V
39	+12V	40	N/A

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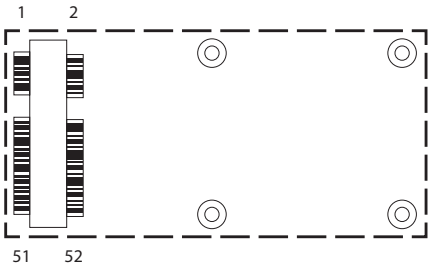
Mini-PCIe Connector

Connector location: MINI_CARD



Pin	Definition	Pin	Definition
1	WAKE#	2	+3VSB
3	NC	4	GND
5	NC	6	+1.5V
7	NC	8	SIM_PWR
9	GND	10	SIM_DATA
11	REFCLK-	12	SIM_CLK
13	REFCLK+	14	SIM_RESET
15	GND	16	SIM_VPP
17	NC	18	GND
19	NC	20	WLAN_DISABLE#
21	GND	22	RESET#
23	PERn0	24	+3VSB
25	PERp0	26	GND

Pin	Definition	Pin	Definition
27	GND	28	+1.5V
29	GND	30	SMB_CLK
31	PETn0	32	SMB_DATA
33	PETp0	34	GND
35	GND	36	USB_D-
37	GND	38	USB_D+
39	+3VSB	40	GND
41	+3VSB	42	NC
43	GND	44	NC
45	NC	46	NC
47	NC	48	+1.5V
49	NC	50	GND
51	NC	52	+3VSB

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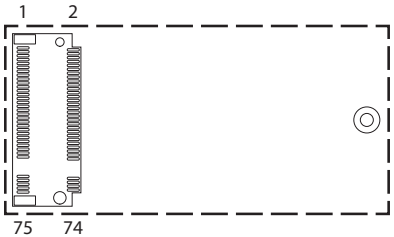
M.2 Connector (M-Key)

Connector location: M2M



Pin	Definition	Pin	Definition
1	GND	2	+3VSB
3	GND	4	+3VSB
5	NC	6	NC
7	NC	8	NC
9	GND	10	M2M_LED#
11	NC	12	+3VSB
13	NC	14	+3VSB
15	GND	16	+3VSB
17	NC	18	+3VSB
19	NC	20	NC
21	GND	22	NC
23	NC	24	NC
25	NC	26	NC
27	GND	28	NC
29	NC	30	NC
31	NC	32	NC
33	GND	34	NC
35	NC	36	NC
37	NC	38	DEVSLP

Pin	Definition	Pin	Definition
39	GND	40	NC
41	SATA_RXP	42	NC
43	SATA_RXN	44	NC
45	GND	46	NC
47	SATA_TXN	48	NC
49	SATA_TXP	50	RESET#
51	GND	52	NC
53	NC	54	NC
55	NC	56	NC
57	GND	58	NC
67	NC	68	NC
69	NC	70	+3VSB
71	GND	72	+3VSB
73	GND	74	+3VSB
75	GND		

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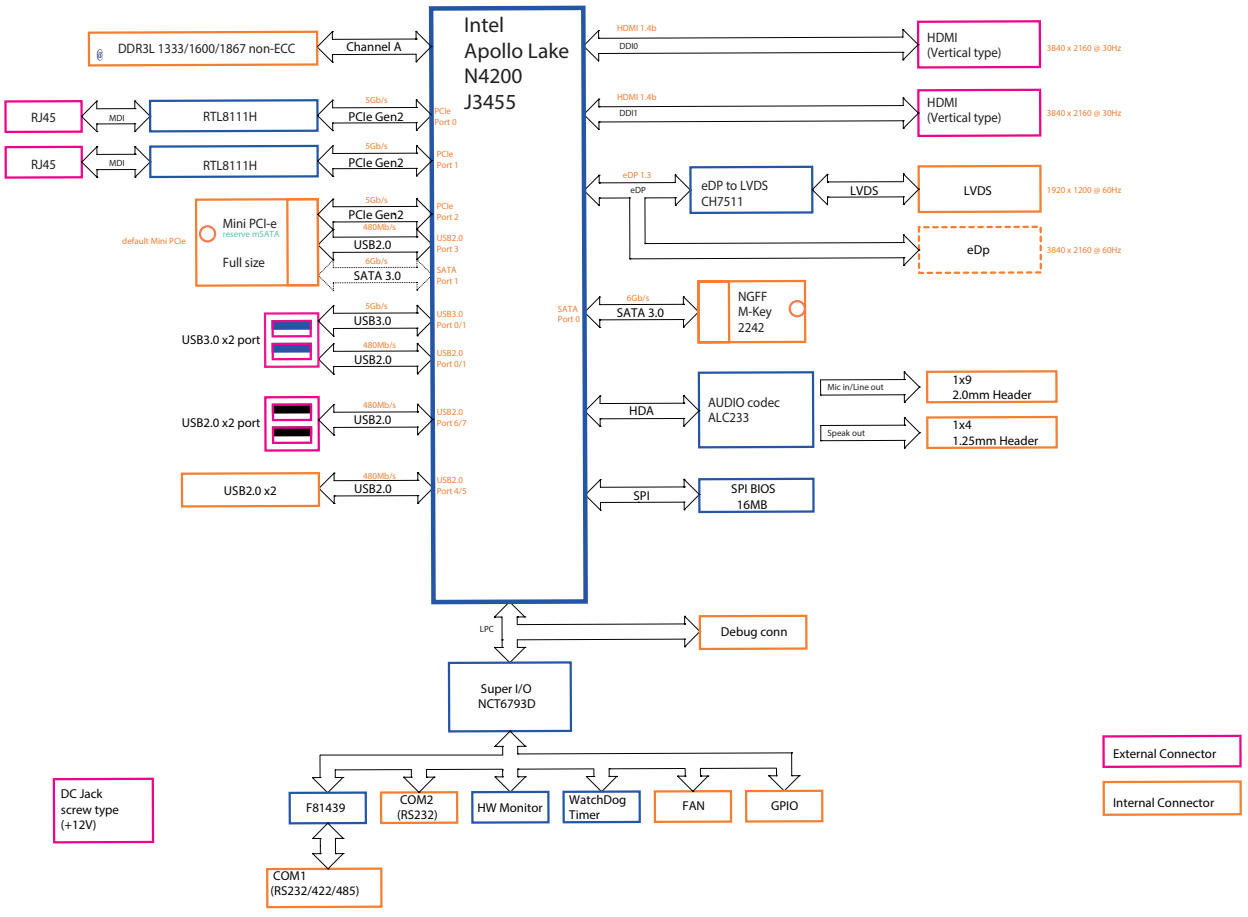
Block Diagram



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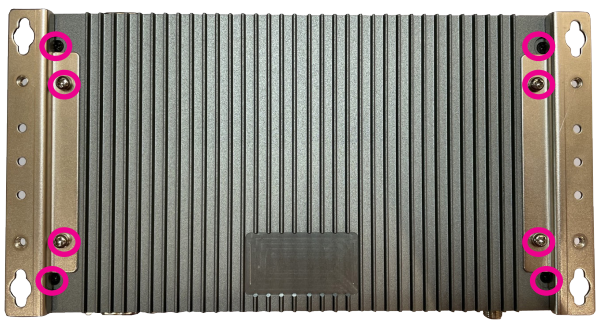
Chapter 3: System Setup

Removing the 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. Remove the eight mounting screws from the bottom cover.



2. Remove the two mounting screws from the front and rear cover respectively.

3. With the screws removed, lift up the cover and remove it from the chassis.

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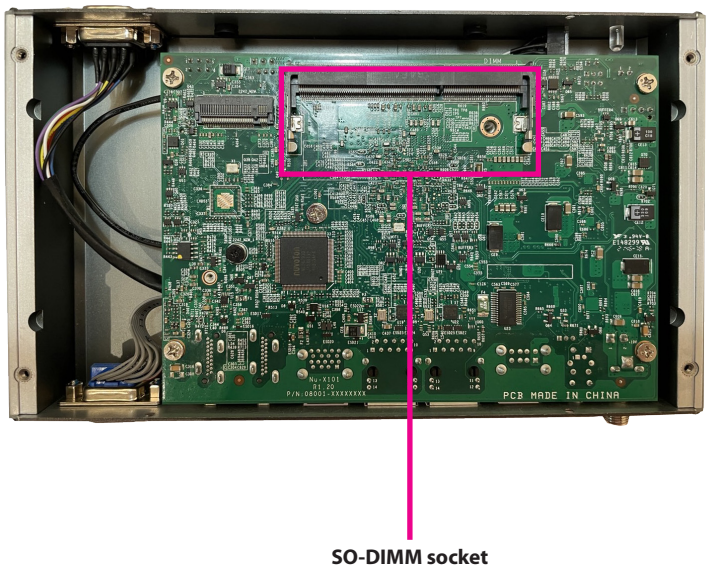
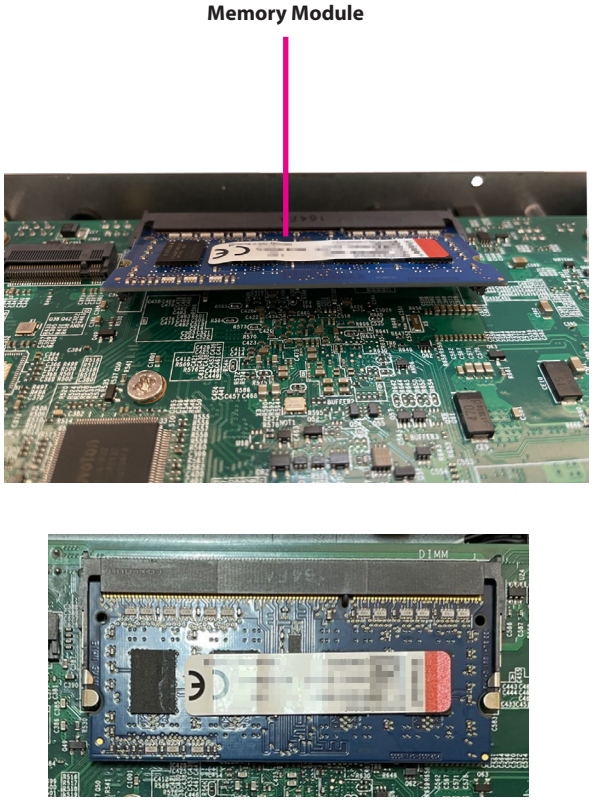
Installing SO-DIMM Memory Modules

1. Locate the SO-DIMM socket on the board.



2. Insert the module into the socket at an approximately 30 degrees angle. The ejector tabs at the ends of the socket will automatically snap into the locked position to hold the module in place.



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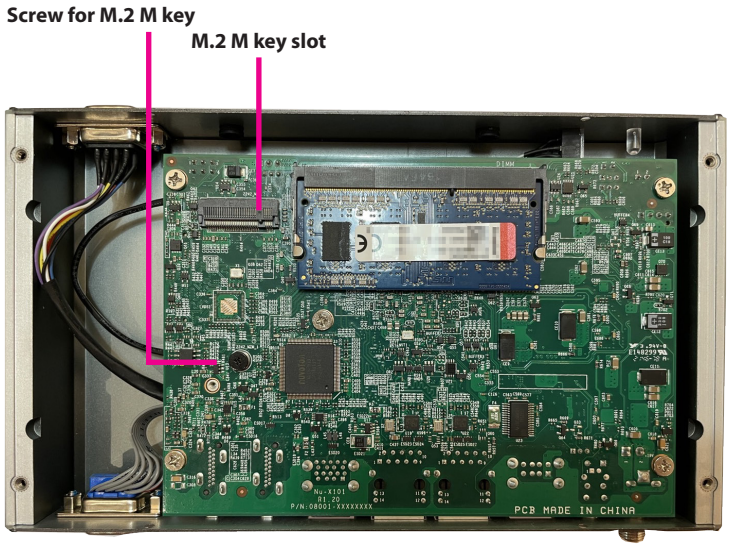
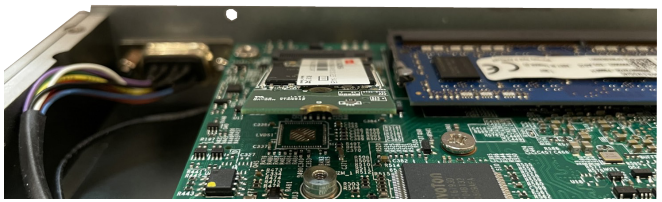
Installing a M.2 Storage Module (M key 2242)

1. Locate the M.2 M key slot on the board and remove the screws on the board.

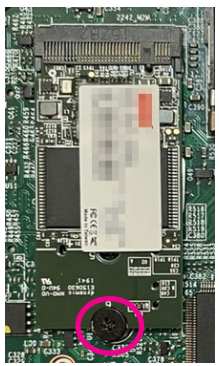


Please use a 2.5mm Phillips-head screwdriver for assembling and disassembling the screws.

2. Insert the M.2 module into the M.2 slot at a 45-degree angle until the gold-plated connector on the edge of the module completely disappears into the slot.



3. Push the module down and secure it with the screw that was removed from step 1.



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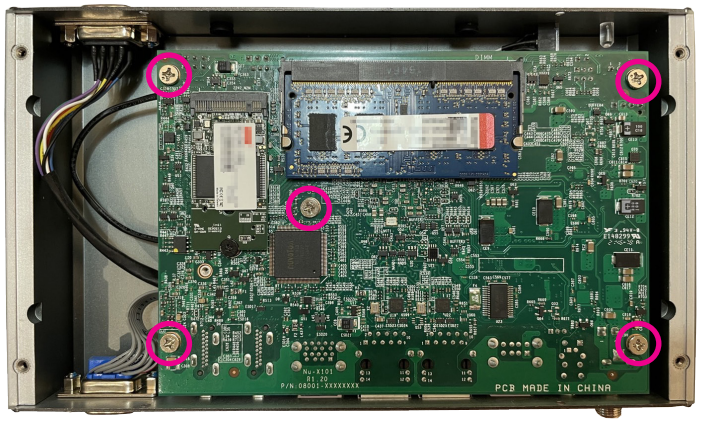
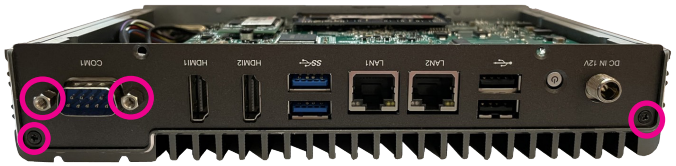
Installing a WiFi Module (Mini-PCIe Slot)

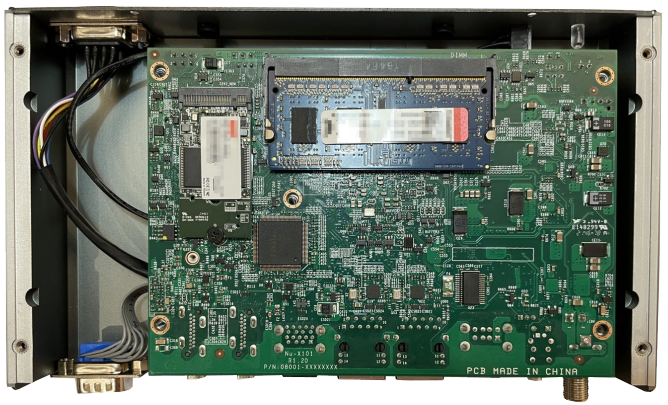
1. Locate the five screws from the mainboard.



2. Remove the four screws from the front cover.



3. Remove the front cover from the chassis.



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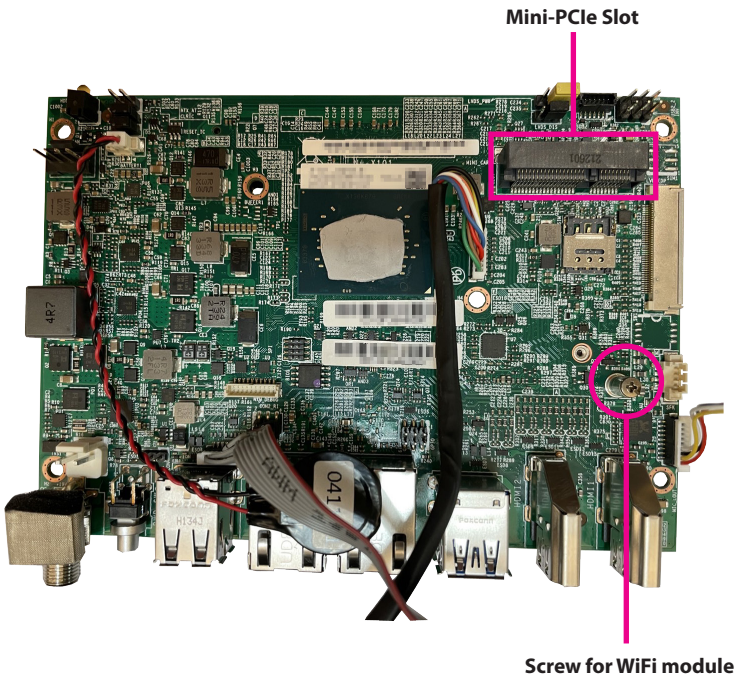
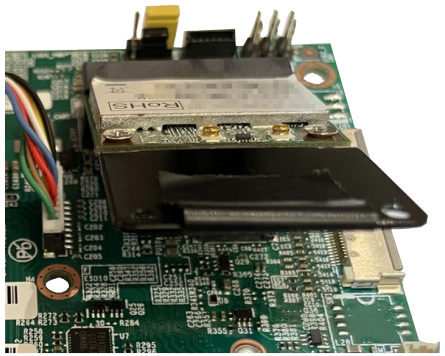
4. Remove the front cover from the chassis.
   Locate the Mini-PCIe slot on the board and remove the screws on the board.



5. Insert the Wi-Fi module into the slot at a 45 degree angle until the goldplated connector on the edge of the module completely dissapears inside the slot.



6. Push the module down and secure it with a screw that was removed from step 4.

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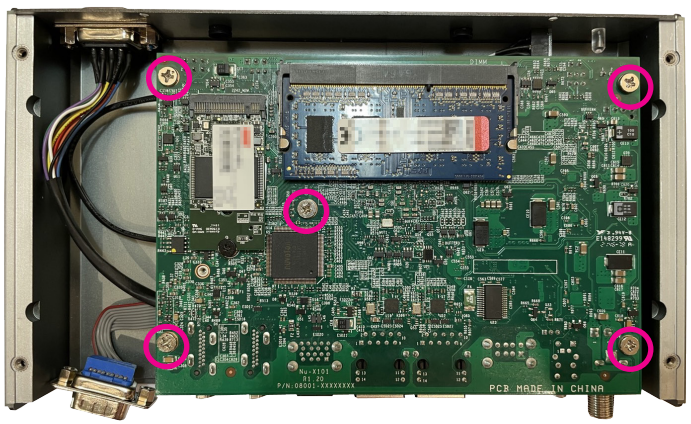
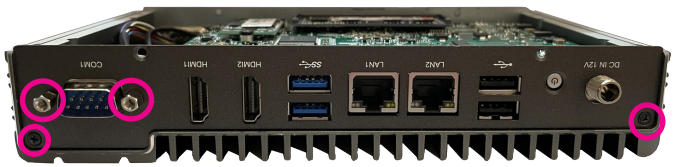
Assembling the Front Cover and Bottom Cover

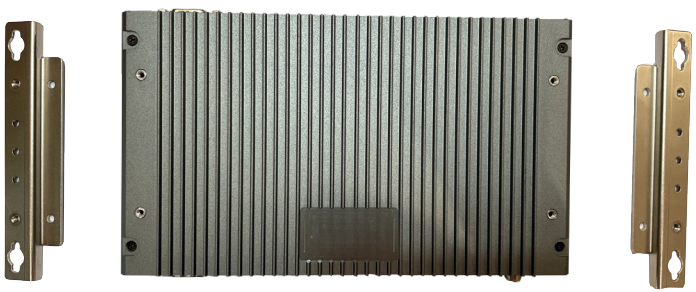
1. Secure the board to the chassis with the five screws.



2. Remove the four screws from the front cover.



3. Secure the bottom cover to the chassis with four screws, then secure the wall mount bracket.



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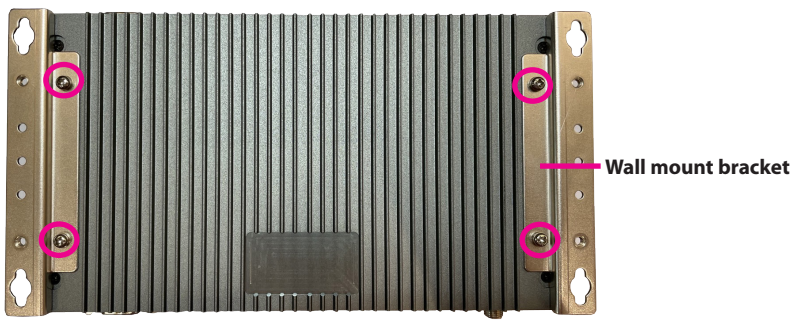
Wall mounting instruction

To mount the system on to a wall or some other surface using the two mounting brackets, please follow the steps below.

1. Turn the system over. Align the two retention screw holes in each bracket with the retention screw holes on the sides of the bottom surface.

2. Secure the brackets to the system by inserting two retention screws into each bracket.



Specification of the wall mount screw:
Round Head Screw w/ Spring+Flat Washer Long Fei:P3x6L P3x6 iso/SW6x0.5 NI

3. Drill holes in the intended installation surface.

4. Align the mounting holes in the sides of the mounting brackets with the predrilled holes in the mounting surface.

5. Insert four retention screws, two in each bracket to secure the system to the wall.

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Chapter 4: BIOS Setup

This chapter describes how to use the BIOS setup program for the NDiS B337. 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 Web site 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.

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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:

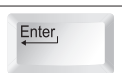
- If the error occurs before the display device is initialized, a series of beeps will be transmitted.
- If the error occurs after the display device is initialized, the screen will display the error message.

Powering on the computer and immediately pressing <Del> 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

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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

.

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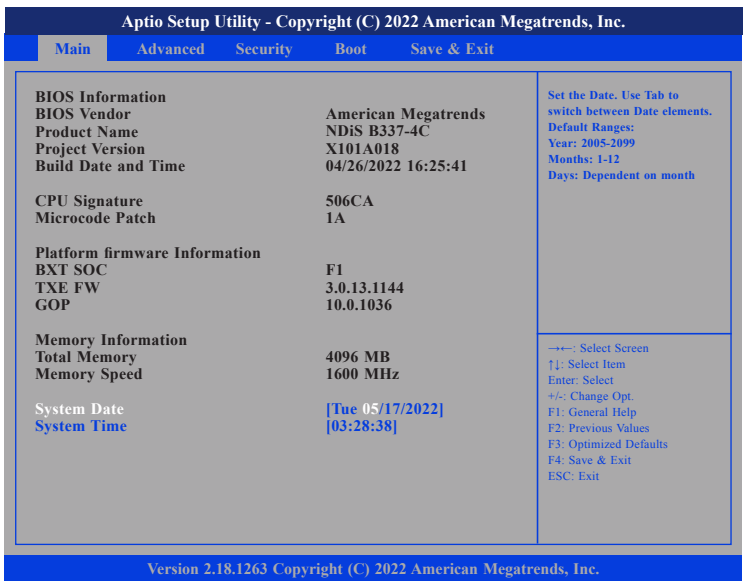
BIOS Setup Utility

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 Enter 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.

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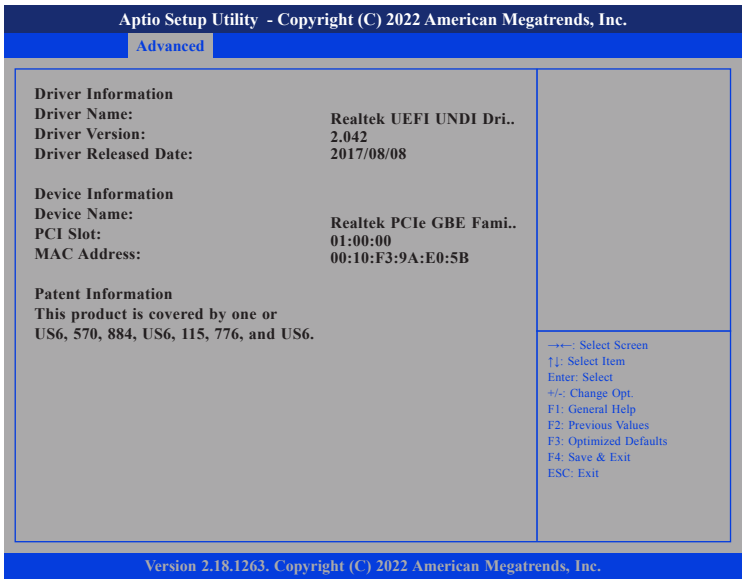
Advanced

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.

Realtek PCIe GbE Family Controller

Displays the driver information of the Ethernet controller 1.



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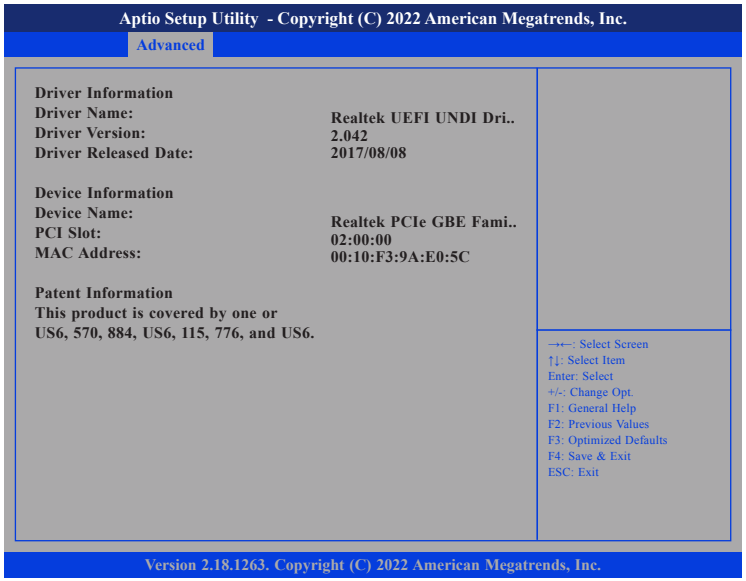
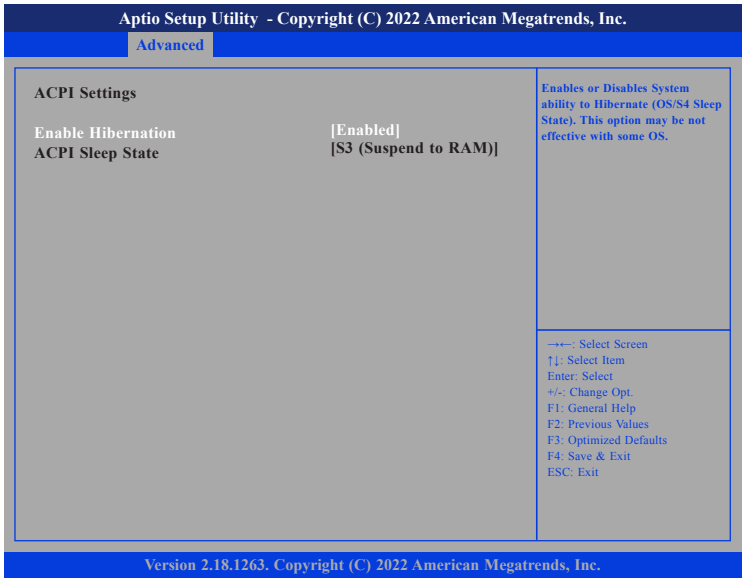
Realtek PCIe GbE Family Controller

Displays the driver information of the Ethernet controller 2.



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).

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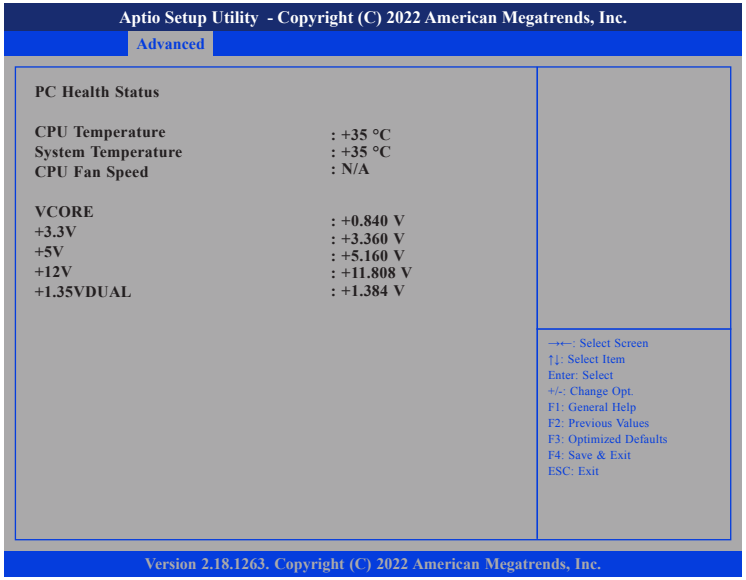
Hardware Monitor

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 internal temperature of the system.

CPU FAN Speed

Detects and displays the current CPU fan speed.

CPU:VCORE to +1.35VDUAL

Detects and displays the output voltages.

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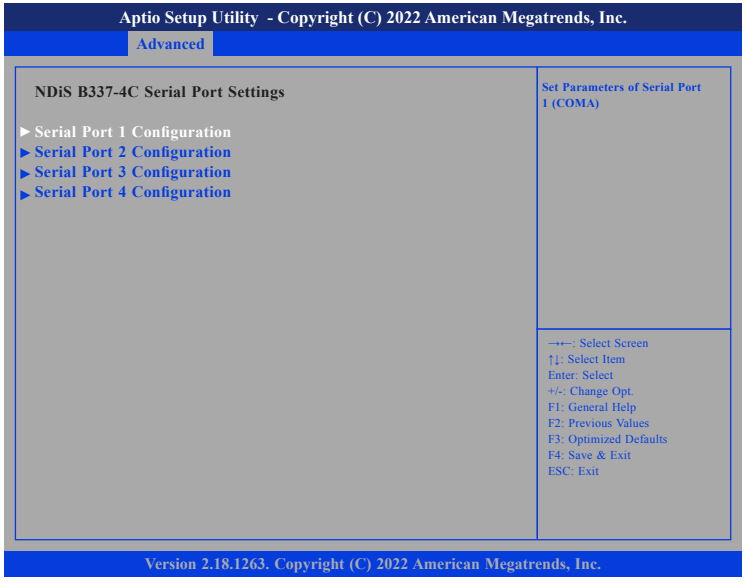
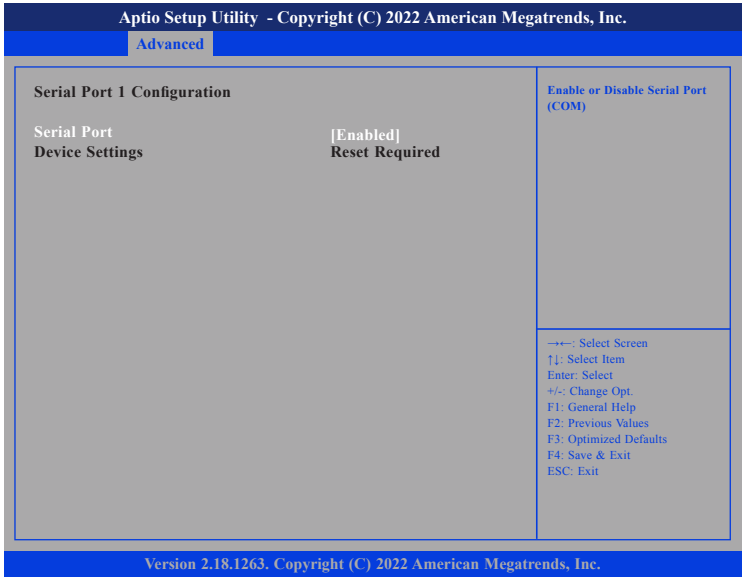
NDiS B337-4C Serial Port Settings

This section is used to configure serial ports 1 to 4 of NDiS B337-4C.



Serial Port 1 Configuration



Serial Port

Enable or disable serial port (COM).

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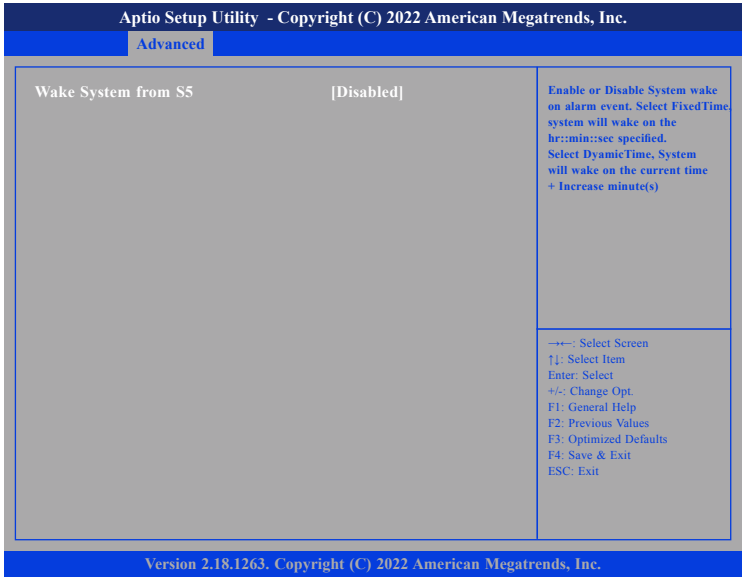
S5 RTC Wake Settings

This section is used to configure system to wake from S5 using RTC alarm.

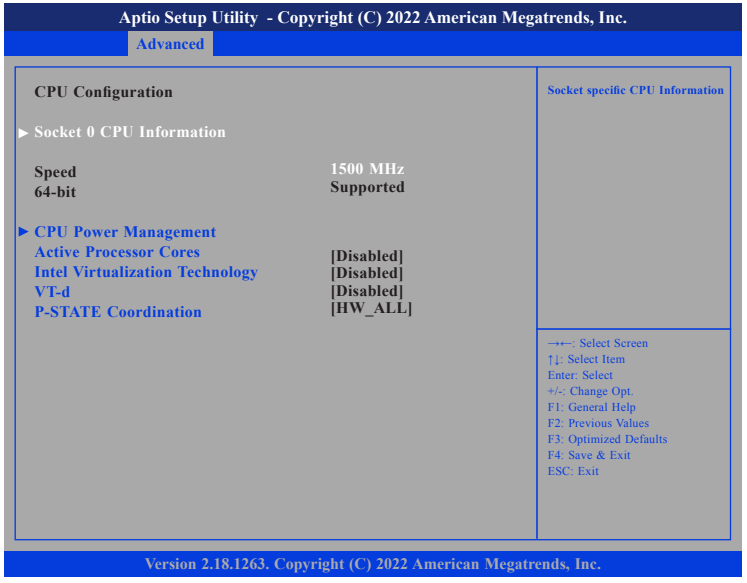


Wake System from S5

Enables or disables system wake on alarm event. When FixedTime is selected, system will wake on the hr::min::sec specified. When DynamicTime is selected, system will wake on the current time + Increase minute(s).

CPU Configuration

This section is used to view CPU status and configure CPU parameters.



Active Processor Cores

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

Intel® (VMX) 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 Intel® VT-d technology.

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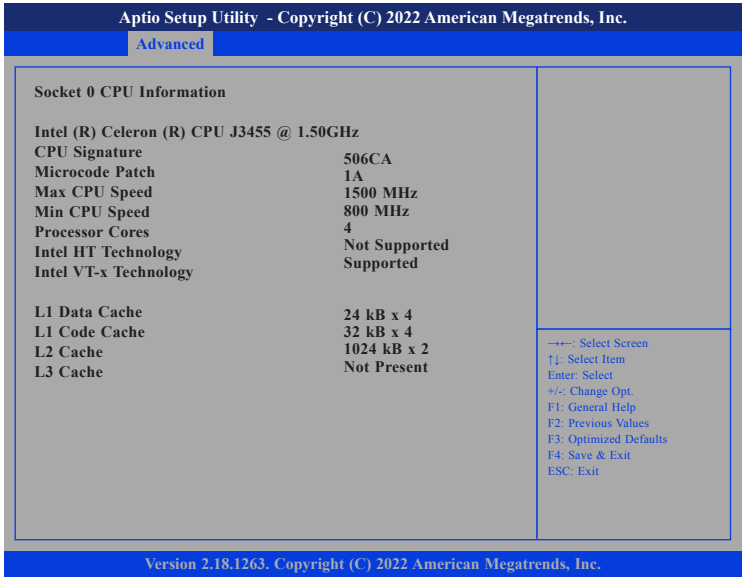
P-STATE Coordination
Configures the P-STATE coordination type.

Socket 0 CPU Information
Display information on the CPU installed on socket 0.



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CPU Power Management

This section is used to configure the CPU power management settings.

EIST

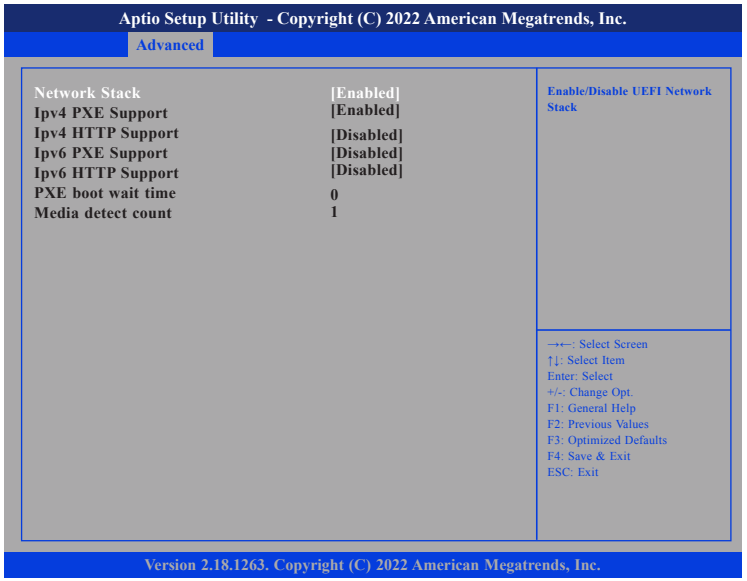
Enables or disables Intel® SpeedStep.

Turbo Mode

Enables or disables turbo mode.

Network Stack Configuration

This section is used to configure the network stack.



Network Stack

Enables or disables UEFI network stack.

Ipv4 PXE Support

Enables or disables IPv4 PXE boot support. If disabled, IPv4 PXE boot option will not be created.

Ipv4 HTTP Support

Enables or disables IPv4 HTTP support.

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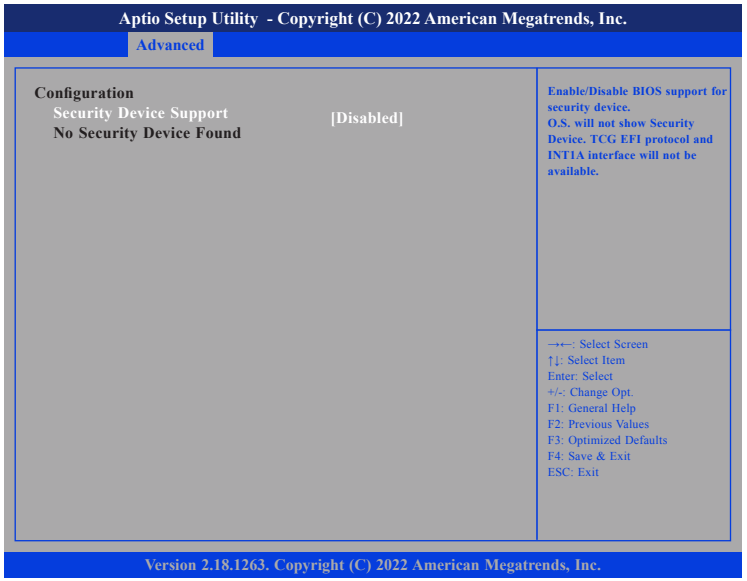
Ipv6 PXE Support
Enables or disables IPv6 PXE support. If disabled, the IPv6 boot option will not be created.

Ipv6 HTTP Support
Enables or disables IPv6 HTTP support.

PXE boot wait time
Configures the wait time to press the ESC key to abort the PXE boot.

Media detect count
Configures the number of times the media will be checked.

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.

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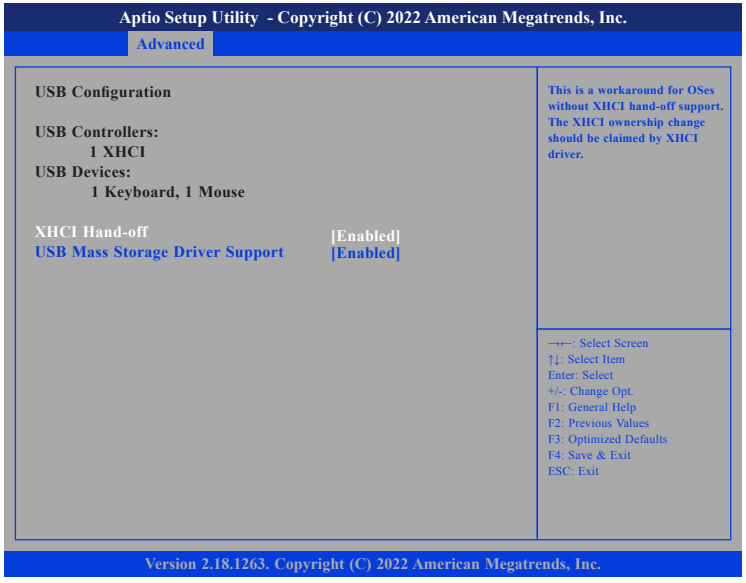
USB Configuration

This section is used to configure the USB.



XHCI Hand-off

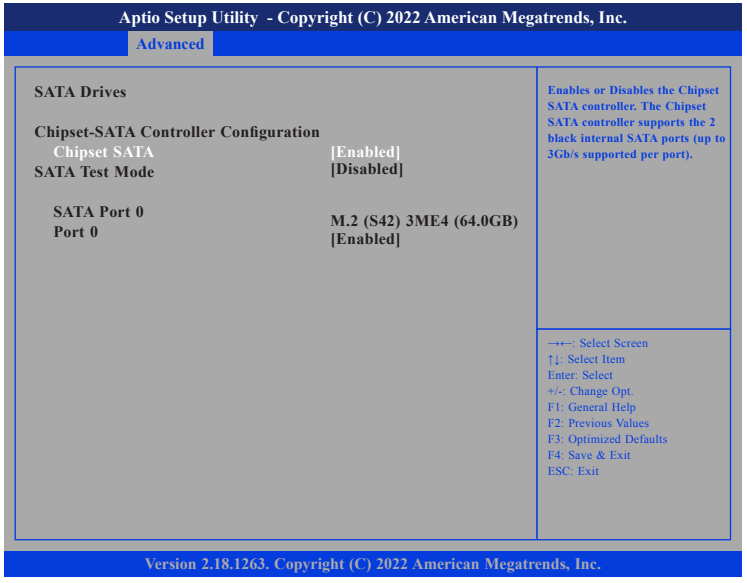
This is a workaround for OSs that does not support XHCI hand-off. The XHCI ownership change should be claimed by the XHCI driver.

USB Mass Storage Driver Support

Enables or disables USB mass storage device driver support.

SATA Drives

This section is used to configure the 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).

SATA Test Mode

Enables or disables SATA test mode.

Port 0

Enable or disable SATA Port 0.

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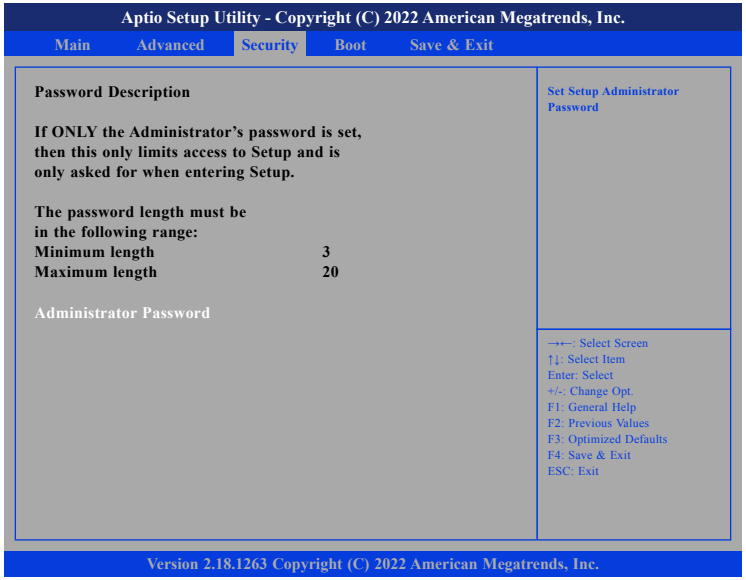
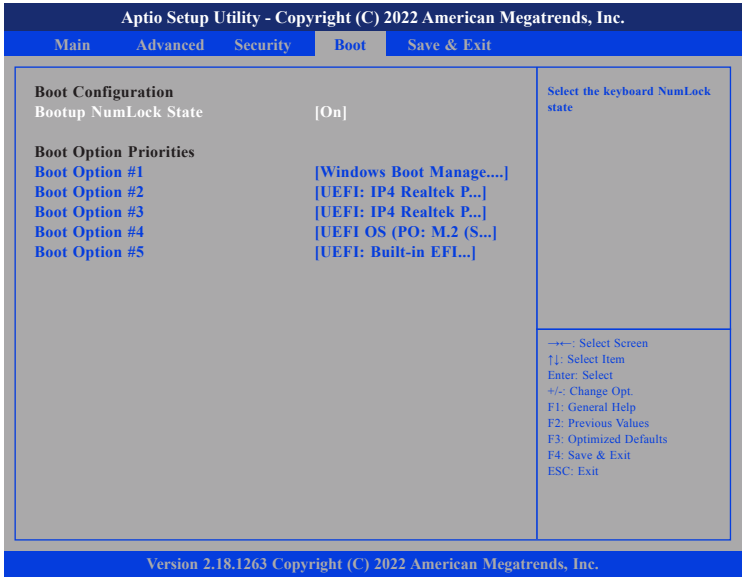
Security



Administrator Password

Select this to reconfigure the administrator's password.

Boot



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.

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.

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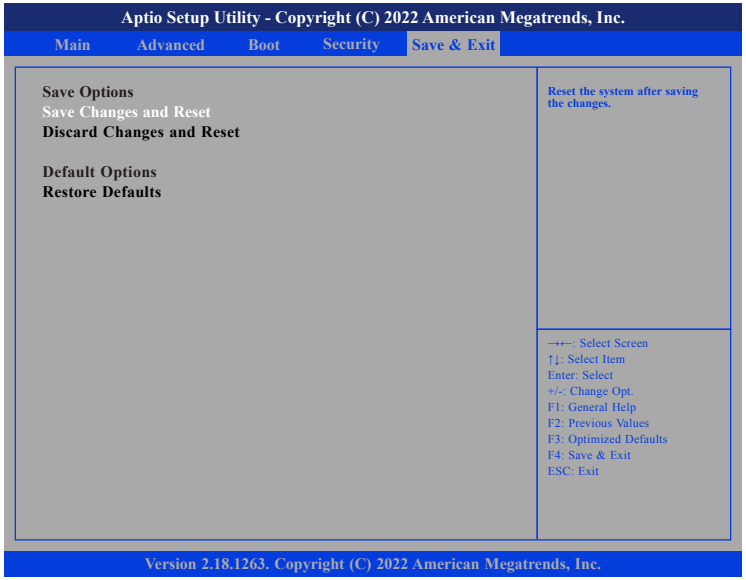
Save & Exit



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 reset 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.

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