



WBOX-366x

- INTEL® 6/7th or 8th Generation Core™ processor
- Intel® HD Graphics Integrated Graphics
- 2 x HDMI, Display
- 2 x REALTEK RTL8111H GbE LAN
- 1 x RS232, 1 x RS232/RS485 COM Option
- 1 x SODIMM DDR4 Socket
- 4 x USB3.0
- 2x M2 KEY-B M2-SATA/ WLAN Socket
- DC12~19V Voltage input

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2. Call your dealer and describe the problem. Please have your manual, product, and any helpful information readily available.
3. If your product is diagnosed as defective, obtain an RMA (return merchandize authorization) number from your dealer. This allows us to process your return more quickly.
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- Product name and serial number
- Description of your peripheral attachments
- Description of your software (operating system, version, application software, etc.)

- A complete description of the problem
- The exact words of any error messages

Packing List

Thanks for selecting our products.

Please make sure the package of motherboard you purchase is complete, if there is any packing damage or parts shortages occurred; please contact the representatives or distributors as soon as possible.

- **1 WBOX-366X Motherboard**

- **Thermal solution:**

<i>Part Number</i>	<i>Description</i>
710138970001	Cooler: 91*65*5mm, Silver color

Ordering Information

Model Number Description

WBOX-3665	INTEL® Intel i5-6200U 2.3GHz 15W CPU, 2 x HDMI, 1 x RS232 COM, 1 x RS232/RS485 COM, 1 x DDR4 SODIMM, 2x M2 KEY-B M2-SATA/ WLAN, 4*USB, 2 x GbE LAN; DC12-19V Voltage input.
WBOX-3687	INTEL® Intel i7-8550U 1.8GHz 15W CPU, 2 x HDMI, 1 x RS232 COM, 1 x RS232/RS485 COM, 1 x DDR4 SODIMM, 2x M2 KEY-B M2-SATA/ WLAN, 4*USB, 2 x GbE LAN; DC12-19V Voltage input.



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Chapter 1

General Introduction

This chapter gives background information on the WBOX-366x sections including:

- Introduction
- Product Features
- Specifications
- Environmental Specifications
- Board layout and dimensions

1.1 Introduction

WBOX-366X is a 100x100(mm) SBC (Single Board Computer) with INTEL® 6/7th or 8th -Generation Serial processor. The WBOX-366X can support HDMI and EDP display output, Audio, M2 KEY-B M2-SATA/ WLAN ,1 x RS232 and 1 x RS232/RS485COM ports, 4Xusb3.0,1x DDR4 SODIMM,2xGbE LAN, DC12-19V Voltage input.

1.2 Product Features

Processor System	CPU	INTEL® 6/7 th or 8 th Generation U Serial processor
	CPU Socket	Onboard
	BIOS	AMI SPI 64M
System Memory	Tech Architecture	DDR4 2133MHz
	Max Capacity	Up to 8GB
	Socket	SO-DIMM (204pin)
Display	Graphic Controller	Intel® HD Graphics Integrated Graphic
	HDMI	Support HDMI Port Resolution: up to 4K
	EDP	Support EDP Port Resolution: up to 3K
Ethernet	Controller	LAN1: Realtek 8111H GbE LAN LAN2: Realtek 8111H GbE LAN
Audio	Controller	Realtek ALC662 HD Audio Codec Right & Left channel + MIC
Super I/O	Controller	NUVOTON NCT6106D Support System temperature detection , Smart FAN
H/W Monitor	Watchdog Timer	Programmable 1 ~ 255 sec ; Support System Reset
	Smart Fan	1 * 4 Pin DC Fan control
	USB	4 * USB3.0
	Serial Port	2* COM option
	M2 Key-B	1 * M2 Key-B WLAN socket, Support 3G Module
	USIM	1 * Standard Small size SIM socket
Storage	M2 Key-B	1 * M2 Key-B M2-SATA socket

Power Source	Power Supply	DC-in 12-19V @ 3A
	Power Consumption	Typical PW:15W
Environment	Operating	-20°C ~ 60°C
	Storage	-40°C ~ 85°C
	Operating Humidity	0% ~ 90% relative humidity(non-condensing)
	Storage Humidity	0% ~ 90% relative humidity(non-condensing)
Form	Dimensions	100 mm * 100 mm
Regulatory Compliance		FCC, CE, RoHS compliant

1.3 Specifications

1.3.1 Functional Specifications

Processor

- 32-Bit and 64-bit X86 Code Base, Dual-core and quad-core options
- 32-Kbyte L1 Data Cache per Core, 2048-KbyteL2 Cache Shared between Four Cores
- Dedicated 128-bit floating-point unit (FPU)

System Memory Support

- 64-bit DDR4 SDRAM controller operating at frequencies up to 1600 MT/s (800 MHz)
- DDR4 1.2V up to 2133 MT/s

Integrated Graphics Controller

- DirectX® 11.1 compliant, including full speed 32-bit floating point per component operations
- Support for OpenCL™ 1.2, DirectCompute 11 and Microsoft C++ AMP
- Support for OpenGL 4.1/4.1+
- **Motion Video Acceleration Features**
 - Supports DVD, Blu-ray, and SDTV/HDTV content playback with low CPU usage
 - Supports stereoscopic 3D Blu-ray
 - Video compression engine:
 - Dedicated hardware (VCE 2.0) assisted encoding of HD video streams to H.264 (main profile)
 - Support H.264 SVC temporal scalability
 - Real-time transcoding by encoding the output from UVD with reduction of CPU utilization and power consumption
 - Motion video decode acceleration technology:
 - Dedicated hardware (UVD) for H.264, MPEG4, VC-1, MVC, and MPEG2 decode:
 - H.264 implementation based on the ISO/IEC 14496-10 specification
 - MPEG7 implementation based on the ISO/IEC 14496-2 specification
 - 7 Sprite, global motion compensation, and reversible variable length coding are not

supported.

- VC-1 implementation based on the SMPTE 421M specification
- MPEG2 implementation based on the ISO 13818-2 specification
- Multi View Coding (MVC) for Blu-ray 3D content
- WMV-9 implementation
- Real time high-definition and standard definition stream decode
- Real time dual high-definition stream decode
- Dedicated graphics memory controller, Up to 512MB of dynamic video memory allocation
- 2D Acceleration
- Three display supported: HDMI+EDP

Gigabit Ethernet

- LAN:2 x REALTEK RTL8111H 10/100/1000 Mb/s Ethernet, supporting wake on LAN
- LAN Connect Interface (LCI) and new Gigabit LAN Connect Interface (GLCI)
- Supports IEEE 802.3, IEEE 802.3u, IEEE 802.ab

Peripheral Interface

- 2 M2 KEY-B M-SATA SSD/WLAN socket
- 4 USB 3.0 ports
- 1 RS232 1 RS232/RS485 COM port
- Reset/Power bottom/Power LED/HDD LED
- Watchdog timer: 255 levels timer interval, programmable by software
- Audio: Realtek ALC662, High Definition Audio, Line-out, Mic-in

BIOS

Winbond64 Mbit SPI Flash ROM

OS Support

It supports Win8, Win7, and Linux Ubuntu 10.04 UP

OTHER

- Deep sleep S4 mode
- Watchdog Timer: Output system reset, programmable counter from 1-255 min/sec

1.3.2 Mechanical Specifications

- Dimensions: 100 x 100mm

1.3.3 Electrical Specifications

- Power supply type: ATX
- WBOX-366x User Manual

- Power management: ACPI 3.0, APM
- Power requirement: +12V - +19V DC input. Support power input reverse direction protection, recoverable fuse.
- Power consumption:

Voltage		CL-3885U 1.6GHz		I5-6200U 2.3GHz		I7-8550U 1.8GHz	
		Current	Power	Current	Power	Current	Power
Idle Mode	+12V	0.5A	6W	0.55A	6.6W	0.6A	7.2W
Boot Mode	+12V	0.95A	11.4W	1.75A	2.80W	2.80A	33.6W
Full-load Mode	+12V	1.35A	16.2W	2.46A	3.60W	3.60A	43.2W

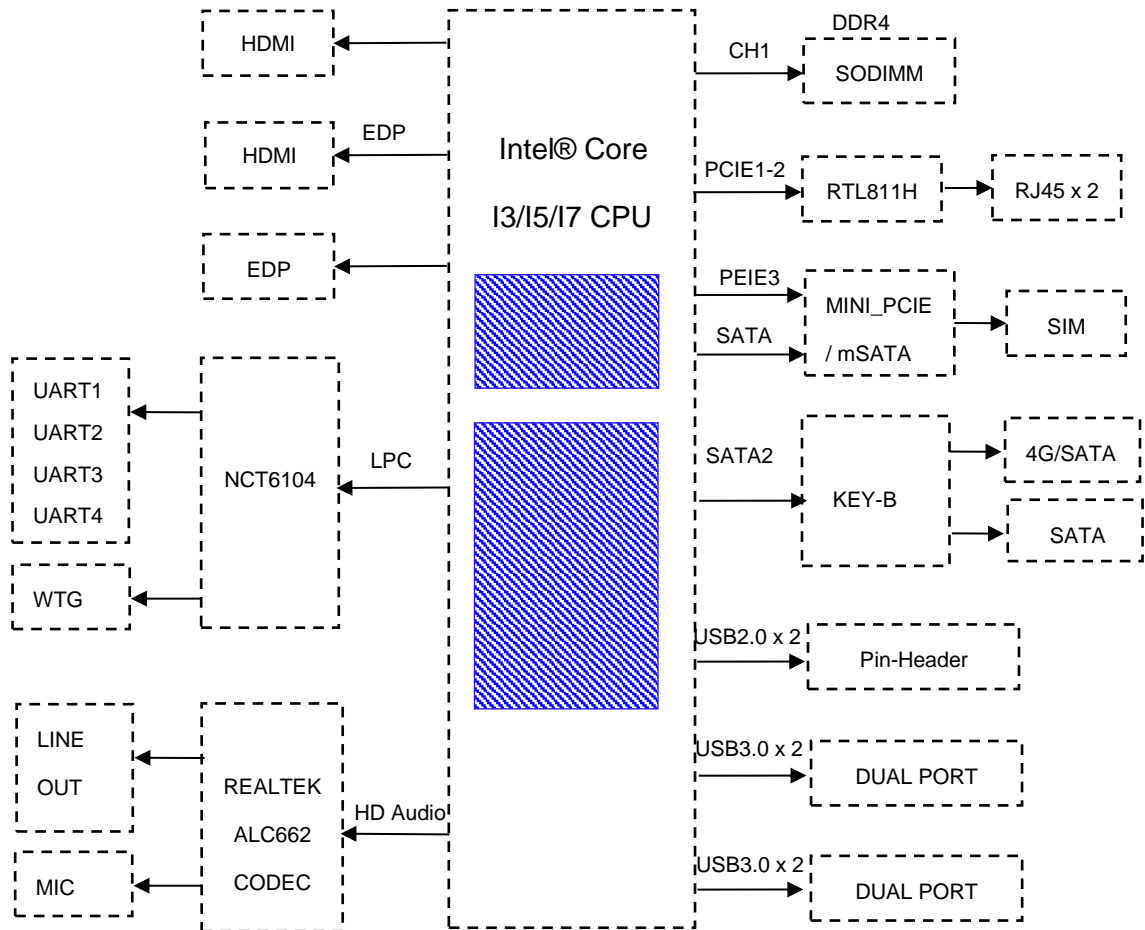
- Power Test Conditions:
 - Test Condition: Windows 7 professional Professional, Burntest ver 5.3, 32G SSD
 - Idle Mode: The power consumption without running any application software after entering to Windows system.
 - Boot Mode: The max Power consumption between power-on and entering to system process.
 - Full-load Mode: The power consumption under 100% full-load operation of CPU and graphic card when running Burntest.
- RTC Battery: Lithium 3 .3V/220mAH CR2032 battery

1.4 Environmental Specifications

- Operating temperature: -20° C ~ 60° C (14 ~ 140° F)
- Operating humidity: 40° C @95% RH Non-condensing
- Storage temperature: -40 ~ 85° C (-40 ~ 185° F)
- Storage humidity: 60° C @95% RH Non-condensing

1.5 Block Diagram

Figure 1.5 Block Diagram



Chapter 2

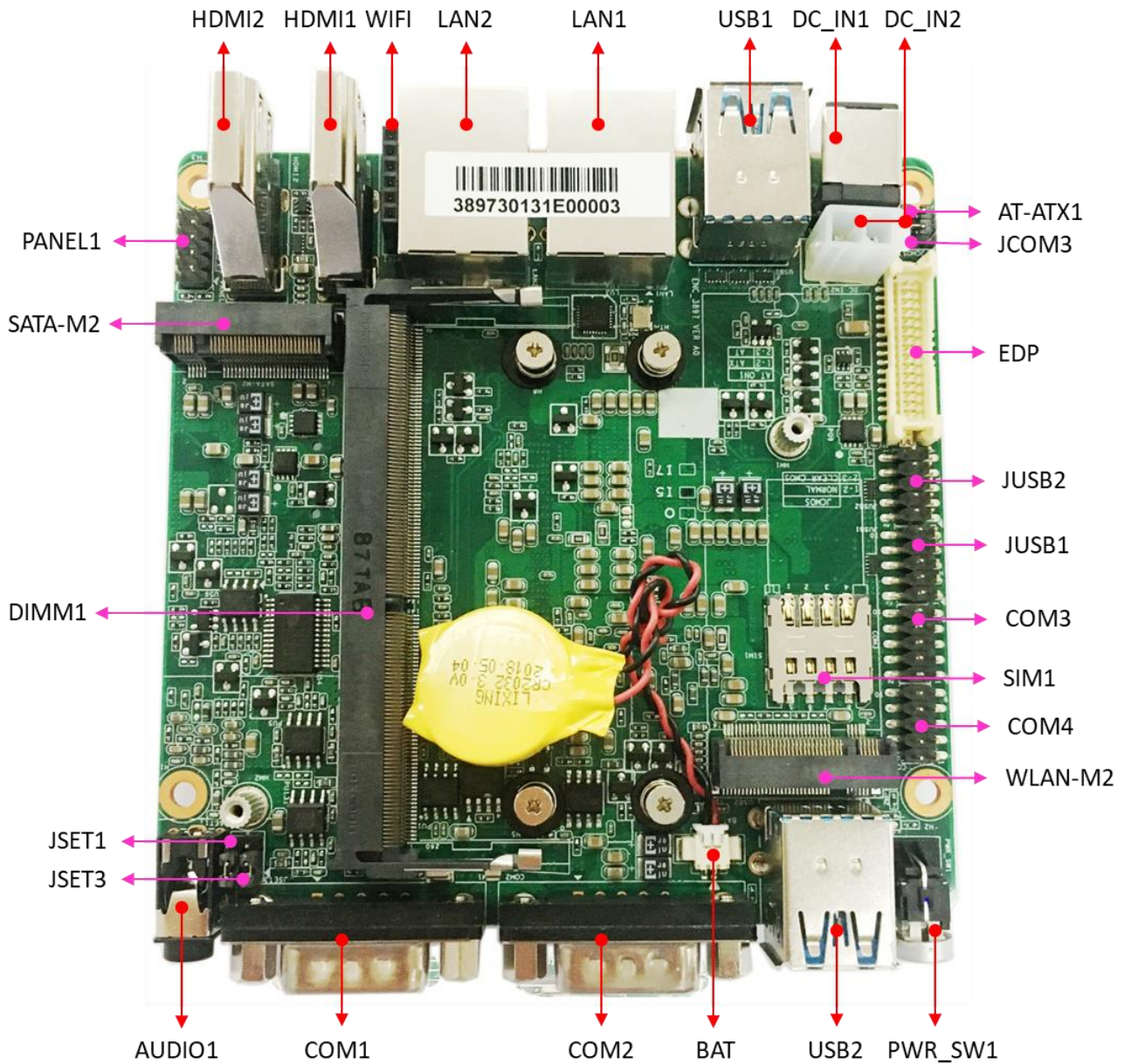
H/W Installation

This chapter explains the setup procedures of the WBOX-366x hardware , including instructions on setting jumpers and connecting peripherals, switches and indicators. Be sure to read all safety precautions before you begin the installation procedure.

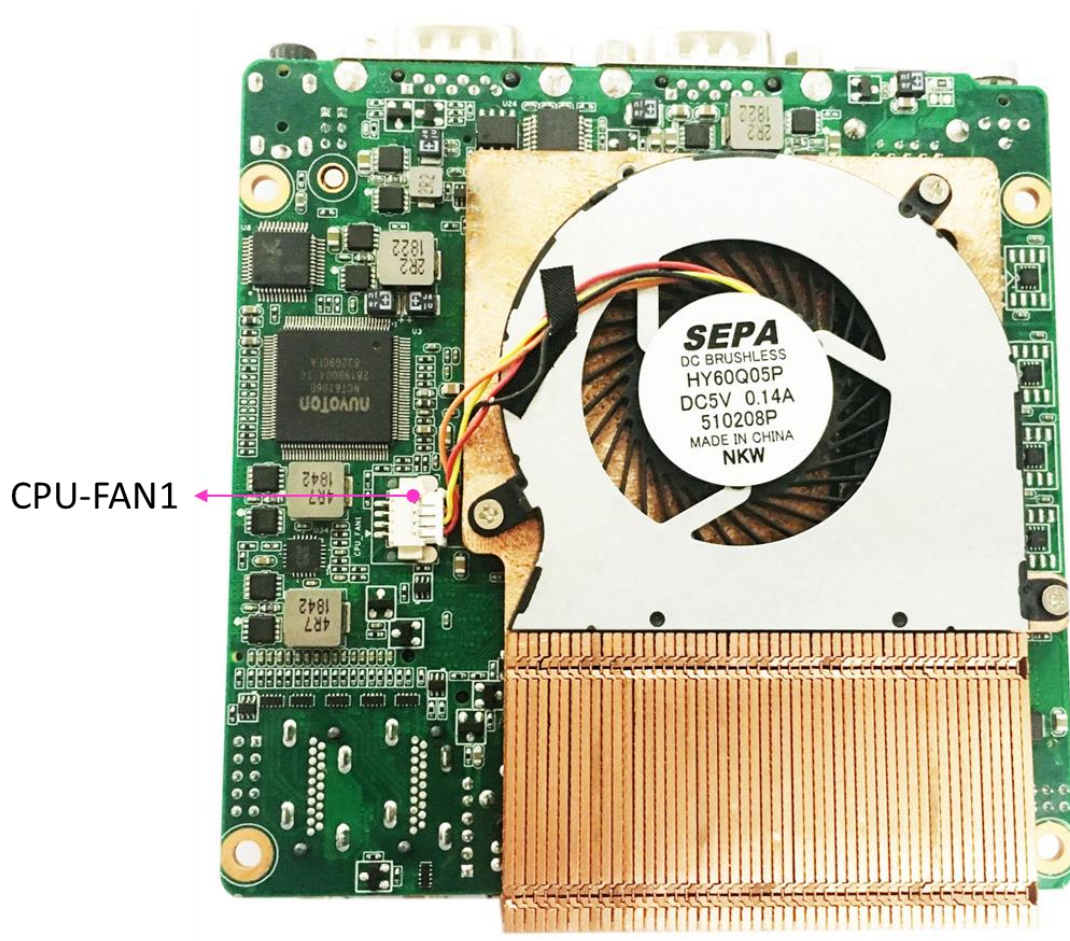
Mechanical

2.1.1 Jumper and Connector Locations

Jumper and Connector Layout (Top Side):



Jumper and Connector Layout (Bottom Side):

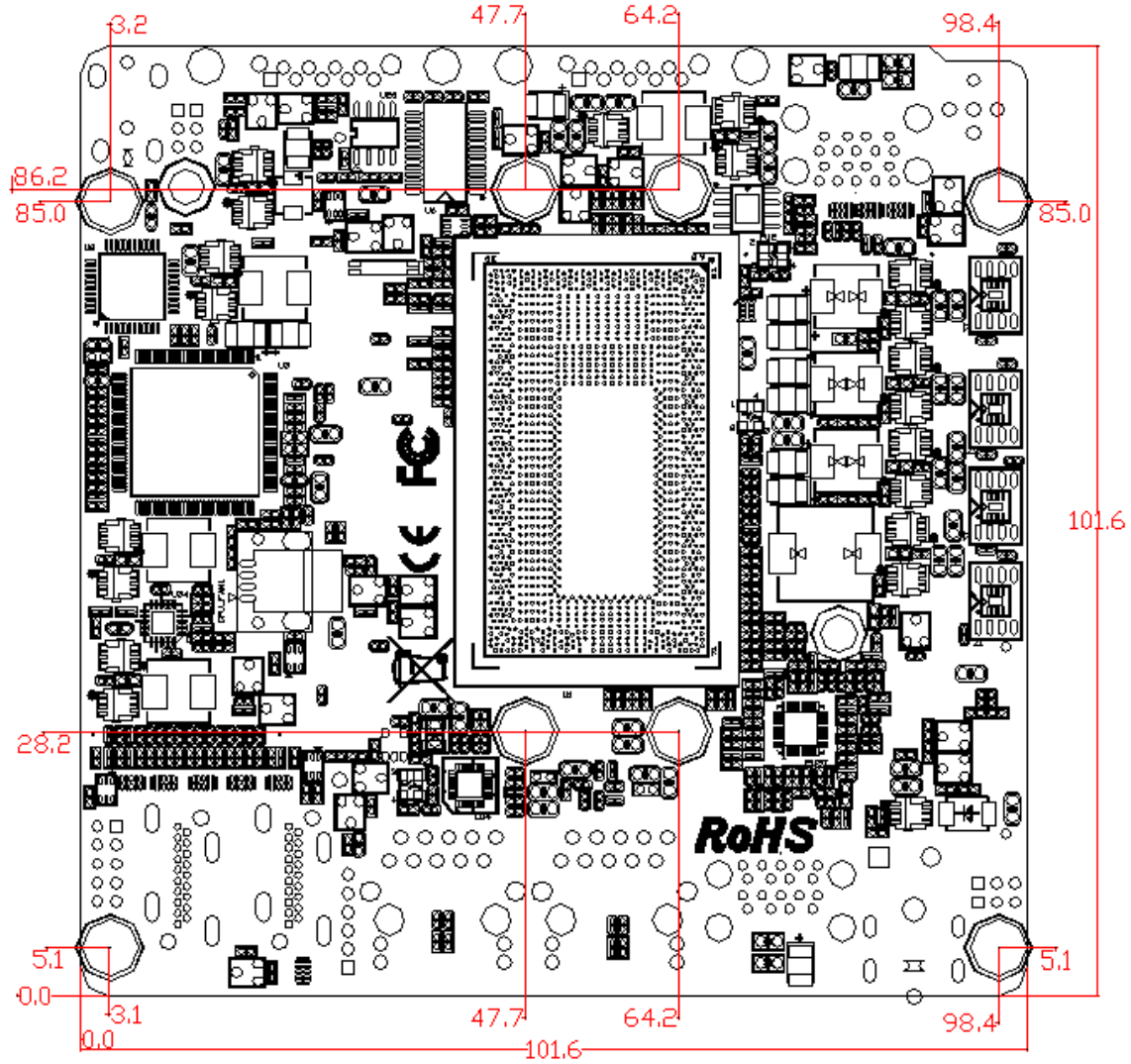


Coastline Layout

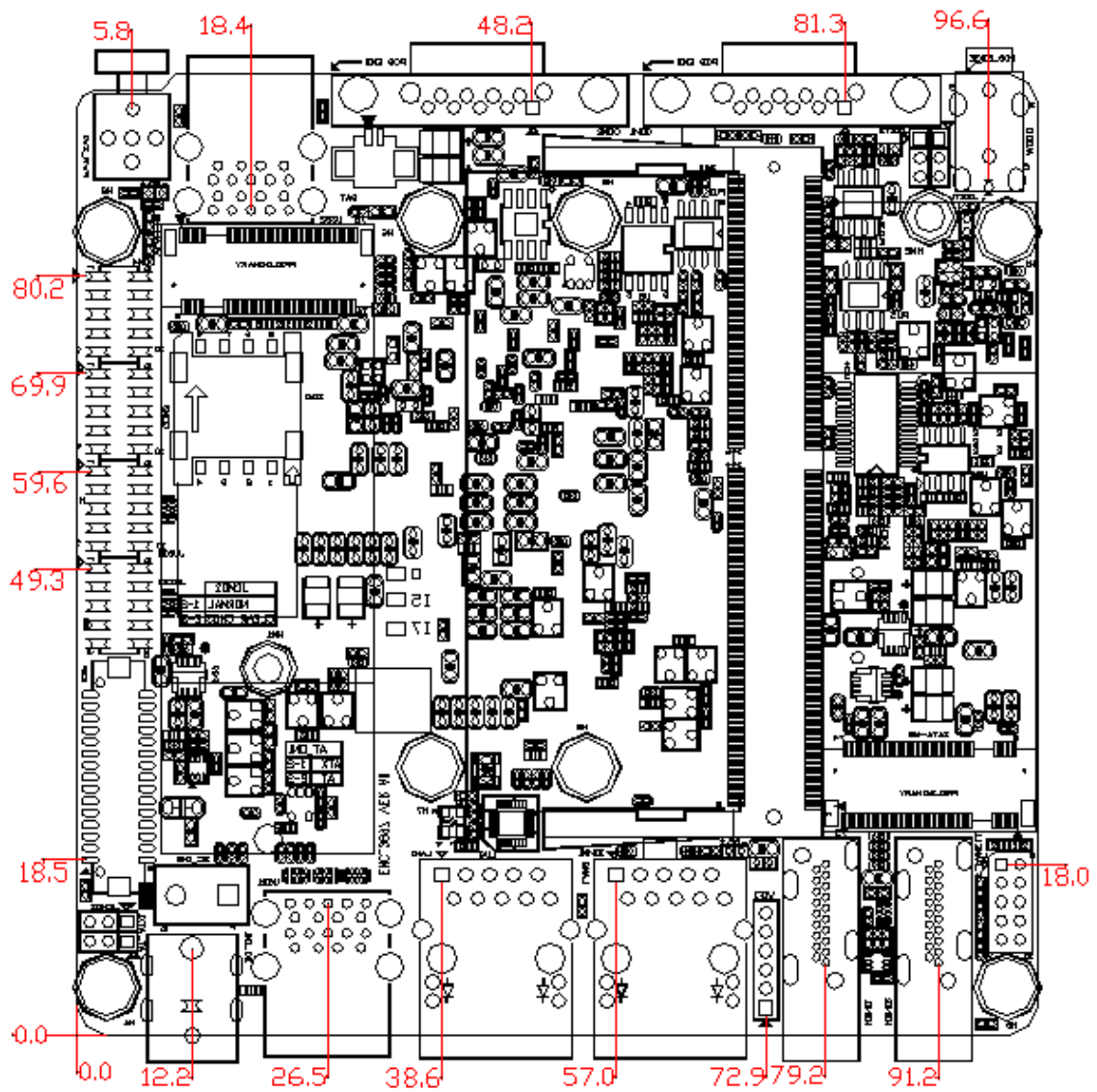


2.1.2 Board Dimensions

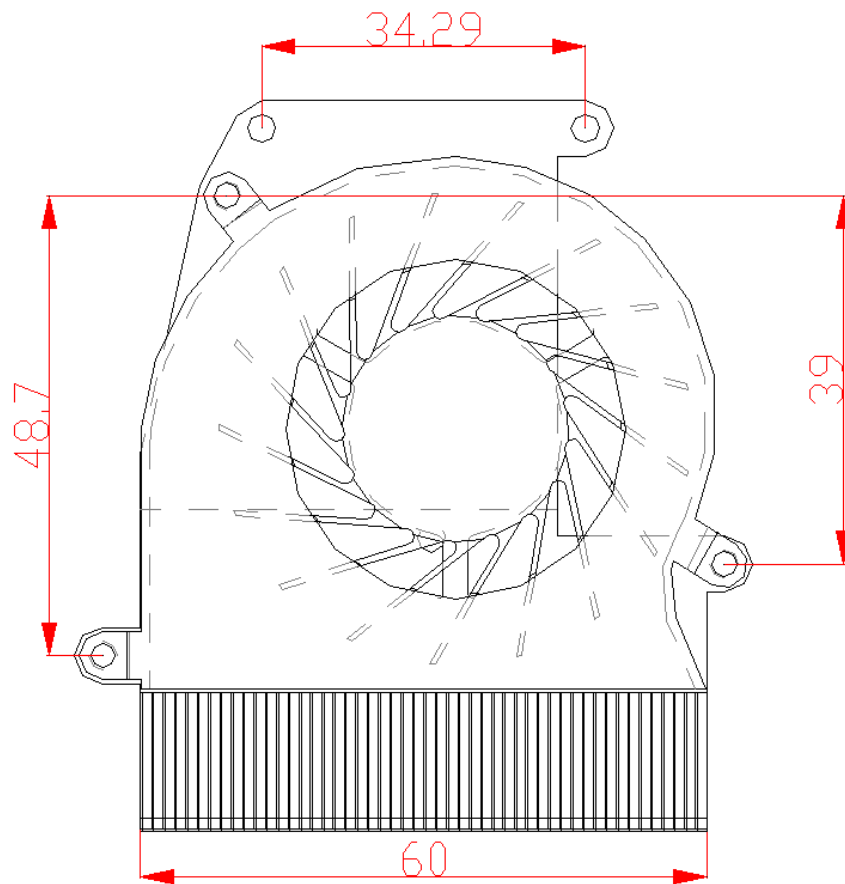
Board Dimension Layout _Top Side: (unit: mm)



Board Dimension Layout _Bottom Side: (unit: mm)



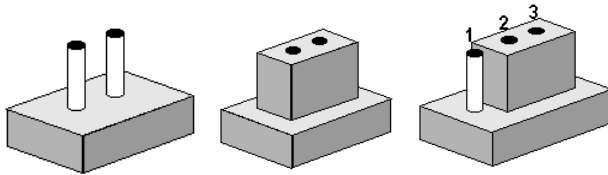
2.1.3 CPU FAN Mechanical Dimensions



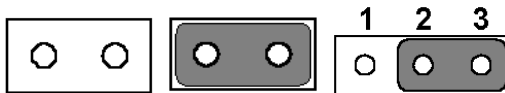
2.1 Jumpers

2.2.1 Jumper Description

Board can be configured by setting jumpers. A jumper is a metal bridge used to close an electric circuit. It consists of two metal pins and a small metal clip (often protected by a plastic cover) that slides over the pins to connect them. To close a jumper, you connect the pins with the clip. To open a jumper, you remove the clip. Sometimes a jumper will have three pins, labeled 1, 2 and 3. In this case you would connect either pins 1 and 2, or 2 and 3.



The jumper settings are schematically depicted in this manual as follows.



A pair of needle-nose pliers may be helpful when working with jumpers. If you have any doubts about the best hardware configuration for your application, contact your local distributor or sales representative before you make any changes. Generally, you simply need a standard cable to make most connections.

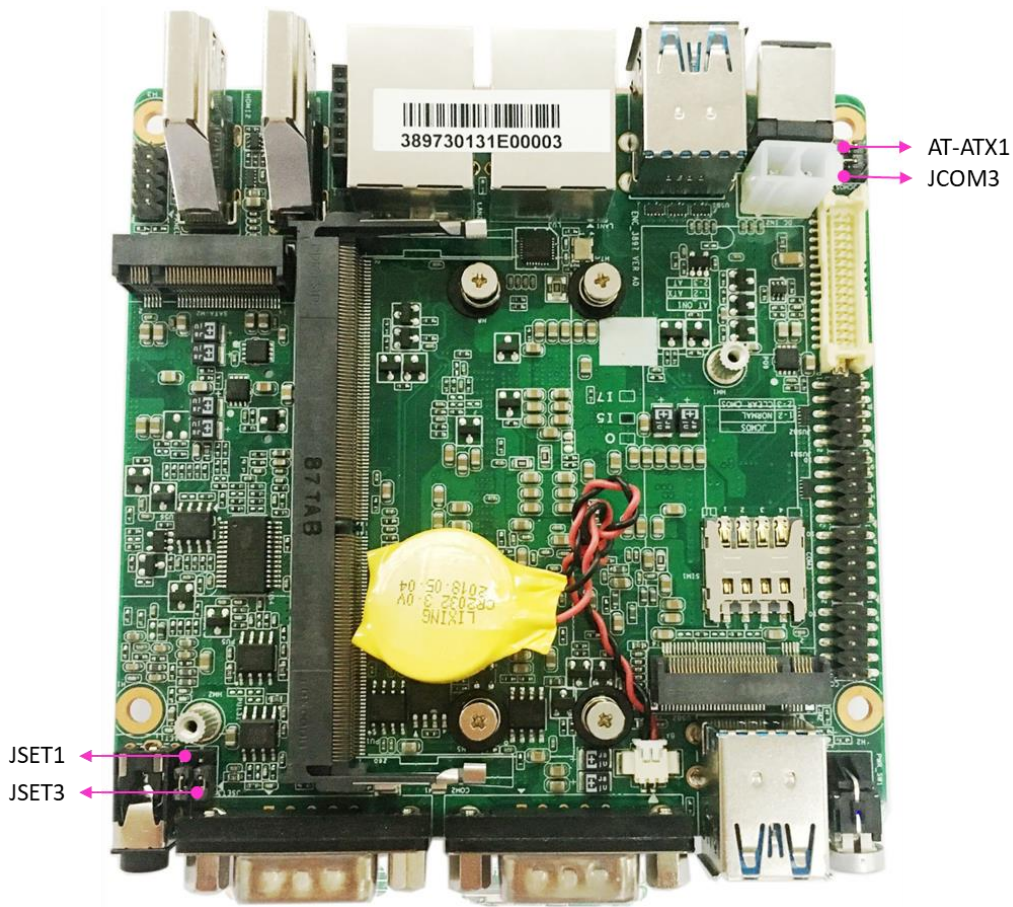


Warning! To avoid damaging the computer, always turn off the power supply before setting jumpers.

How to verify Pin1 of the jumper?

1. Please check the M/B carefully, where there is a mark of “1” or white thick line, there is Pin1.
2. Look into the pad on the back side of the M/B, generally the square side of the pad is Pin1.

2.2.2 Jumper Setting



JSET1,3 Com1&Com2 RS232/485 Select

Part Number _____

Description Pin-Header 1x3 Pin 2.0mm DIP & Jumper 2.0mm

Setting	Function
(1-2)short	COM1,COM2 RS232 (Default)
(2-3)short	COM1,COM2 RS485



AT ATX1 AT&ATX Power Mode Select

Part Number _____

Description Pin-Header 1x3Pin 2.0mmDIP&Jumper 2.0mm

Setting	Function
(1-2) short	ATX (Default)
(2-3) short	AT



AT power mode: Boot-up automatically when power-on

JCMOS Clear/Keep CMOS Setting

Part Number

Description Pin-Header 1x3 Pin 2.0mm DIP & Jumper 2.0mm

Setting	Function
(1-2)short	Normal(Default)
(2-3)short	CLEAR CMOS



How to clear CMOS: (Must follow steps as below)

If any of these states happens: such as CMOS data corruption, administrator or password of the BIOS forgotten, not able to boot-up due to wrong setting of the CPU frequency in BIOS, or the CPU/Memory need to clear the CMOS setting, then you can use this jumper to clear CMOS, and BIOS will reset to default settings.

- Pin1 and Pin2 short (default): Normal Condition;
- Pin2 and Pin3 short: Clear CMOS setting;

Clear CMOS setting and load default settings:

1. Turn-off the system power;
 2. Use jumper to make Pin2 and Pin3 short circuit, waiting for 3-5sec, then place the jumper back to Pin1 and Pin2
 3. Turn-on the system power
 4. If it is the wrong setting of CPU frequency in BIOS, then please press DEL to enter BIOS setting menu once the system reboot.
 5. Set the CPU operating speed to default value or a reasonable value;
 6. Save & Exit the BIOS menu.
-

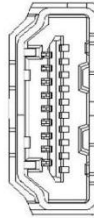
2.2 Connectors

2.3.1 Connector list

PrinterOn Board	Function	Position
HDMI1,2	HDMI	HDMI Port
WIFI(usb2.0)	6 PIN USB 2.0 Conn Header	Pin Header
LAN1	RJ45 Giga LAN	RJ45 Port
LAN2	RJ45 Giga LAN	RJ45 Port
USB1,2	USB3.0 Port	Dual USB3.0 Port
DC_IN	DC Power Input Connect	Adaptor power in Connector
DC_IN1	DC Power Input Connect	ATX power in Header
EDP	Display interface	DF13 Wafer
JUSB1,2	Universal Serial Bus Pin	Pin Header
COM3,4	RS232 Serial Port Extension Port	Pin Header
SIM1	SIM card socket	Small size SIM socket
WLAN-M2	Key-B socket	Standard Key-B socket
PWR_SW2	Power Button with LED	Power Button
BAT	Battery Conn	Battery Connector
COM1,2	1 x RS232/RS485 DB9	RS232/RS485 COM
AUDIO	Line-out and MIC	AUDIO Jack(2 in 1)
DIMM1	SODIMM socket	DDR4 SO-DIMM 204pin socket
SATA-M2	Key-B socket	Standard Key-B socket
PANEL1	Switch & Reset & HDD LED	Pin Header
CPU_FAN	CPU FAN	CPU FAN connector

2.3.2 Connectors Function And Pin Assignments

HDMI1,2	HDMI Port
Part Number	
Description	CONN HDMI 16-110221110 DIP-19P NPB

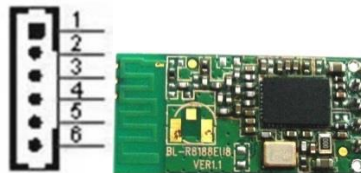


Pin	Signal	Pin	Signal
1	HDMI_D2P	2	GND
3	HDMI_D2N	4	HDMI_D1P
5	GND	6	HDMI_D1N
7	HDMI_D0P	8	GND
9	HDMI_D0N	10	HDMI_CLKP
11	GND	12	HDMI_CLKN
13	HDMI_CEC_IN	14	NC
15	HDMI_SCL	16	HDMI_SDA
17	GND	18	VDD_5V
19	HPD	20	CHASSISGND

1. Provides an integrated 19 pin socket interface HDMI Type A to support HDMI 1.4A standard.

2. HDMI connects the highest resolution 4K@30Hz and audio signal transmission.

WIFI	USB Header
Part Number	
Description	CONN Header 1X6 2.0MM DIP-6 NPB



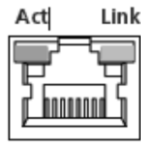
Pin	Signal	Pin	Signal
1	VCC3.3	2	GND
3	USB_DATA+	4	USB_DATA-
5	GND	6	VCC3.3

This USB pin-header can provide WIFI function when it work with BL-8188EU8.2,

LAN1,LAN2 RJ45 Giga LAN

Part Number _____

Description RJ45 Port with Active/link state LED

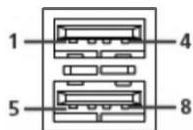


Pin	Signal	Pin	Signal
1	MID0+	2	MID0-
3	MID1+	4	MID1-
5	CTREF	6	CTREF
7	MID2+	8	MID2-
9	MID3+	10	MID3-
11	LED_GREEN+	12	LED_GREEN-
13	LED_YELLOW+	14	LED_YELLOW-
15	GND	16	GND

USB1,USB2 USB3.0 Blue Port with Front I/O panel

Part Number _____

Description Single USB Port Type-AFemale90° 8+4Pin DIP



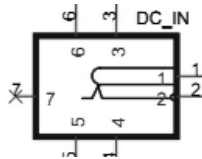
Pin	Signal	Pin	Signal
U1	USB Power	U2	USB2.0 DATA-
U3	USB2.0 DATA+	U4	GND
U5	USB3.0_RX-	U6	USB3.0_RX+
U7	GND	U8	USB3.0_TX-
U9	USB3.0_TX+	L1	USB Power
L2	USB2.0 DATA-	L3	USB2.0 DATA+
L4	GND	L5	USB3.0_RX-
L6	USB3.0_RX+	L7	GND
L8	USB3.0_TX-	L9	USB3.0_TX+
S1	GND	S2	GND
S3	GND	S4	GND

1. Provides two USB (Universal Serial Bus) 3.0 Ports Plug and Play . The USB interface complies with high speed USB specification and are fuse protected.
2. The USB interface can be disabled in the system BIOS setup.
3. To better meet our clients' application, +5V doesn't do limited 500mA current protection, so every USB output can satisfy max. 1A current demand.

DC IN1 DC Power Input Connector

Part Number _____

Description DC JACK SDC-528 D5.3mm 6Pin DIP



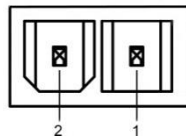
Pin	Signal	Pin	Signal
1	VCC	2	GND
3	GND	4	GND
5	GND	6	GND

WBOX-366X with a 12-19V support DC external power input of the power jack.

DC IN2 DC Power Input Connector

Part Number _____

Description CONN PWR Header 2X1 4.20mm DIP-2P



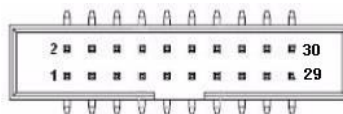
Pin	Signal	Pin	Signal
1	GND	2	VCC

WBOX-366X with a 12-19V support DC external power input of the power connector.

EDP Display interface

Part Number _____

Description CONN WAFER DF13 2x15 1.25mm SMD-30P



Pin	Signal	Pin	Signal
1	+V3.3S	2	+V3.3S
3	GND	4	GND
5	EDP_TXN2_CON	6	EDP_TXP2_CON
7	GND	8	EDP_TXN1_CON
9	EDP_TXP1_CON	10	GND
11	EDP_TXN0_CON	12	EDP_TXP0_CON
13	GND	14	EDP_TXN3_CON
15	EDP_TXP3_CON	16	GND
17	EDP_AUXN_CON	18	EDP_AUXP_CON

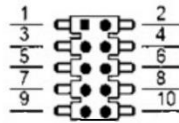
19	GND	20	EDP_BKCTL_CON
21	NC	22	EDP_BKCTLEN_CON
23	EDP_HPD_CON	24	EDP_VDDEN
25	GND	26	GND
27	+V5S	28	+V5S
29	+V12S	30	+V12S

EDP channel turn-out, does not support audio output, the highest resolution 4K@30Hz

JUSB1,2 Universal Serial BusPin

Part Number _____

Description CONN Header 2X5 2.0mm SMD-10P



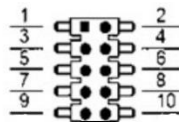
Pin	Signal	Pin	Signal
1	USB POWER	2	USB POWER
3	USB_ DATA2+	4	USB_ DATA3+
5	USB_ DATA2-	6	USB_ DATA3-
7	GND	8	GND
9	NC	10	GND

1. Provides two USB (Universal Serial Bus) 2.0 Ports Plug and Play . The USB interface complies with high speed USB specification Rev. 2.0 are fuse protected.
2. The USB interface can be disabled in the system BIOS setup.
3. To better meet our clients' application, +5V doesn't do limited 500mA current protection, so every USB output can satisfy max. 1A current

COM3,COM4 RS232 Serial Port Extension Port

Part Number _____

Description CONN Header 2X5 2.0mm SMD-10P



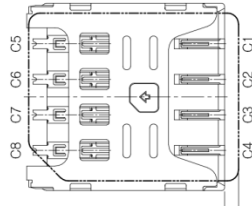
Pin	Signal	Pin	Signal
1	NC	2	HSIN
3	HSOUT	4	NC
5	GND	6	NC
7	HRTS#3	8	HCTS#3
9	NC	10	NC

3-wire RS232 Serial Port Extension

SIM1 SIMCardSocket

Part Number _____

Description CONN SIM socket Push S0DD-150008 SMD-8P



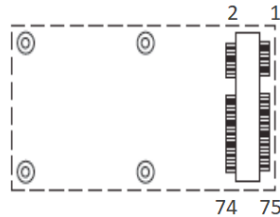
Pin	Signal	Pin	Signal
1	VCC	2	RESET
3	CLK	4	RESERVE
5	GND	6	VPP
7	DATA	8	RESERVE

Support 3G UIM card,Pop-up holder

WLAN-M2 M2 Connector

Part Number _____

Description CONN M2 SOCKET H8.5mm KEY-B 75PIN SMD



Pin	Signal	Pin	Signal
1	NC	2	3.3V
3	GND	4	3.3V
5	GND	6	3.3V
7	USB_PP3	8	GPS_DIS
9	USB_PN3	10	3.3V
11	GND		
		20	NC
21	NC	22	NC
23	NC	24	NC
25	NC	26	GPS_DIS
27	GND	28	NC
29	NC	30	SIM_RST#
31	NC	32	SIM_CLK
33	GND	34	SIM_DATA
35	NC	36	SIM_PWR
37	NC	38	NC

39	NC	40	NC
41	SATA_RXP1	42	NC
43	SATA_RXN1	44	NC
45	NC	46	NC
47	SATA_TXN1	48	NC
49	SATA_TXP1	50	PCIE_RST#
51	GND	52	NC
53	NC	54	NC
55	NC	56	NC
57	GND	58	NC
59	NC	60	NC
61	NC	62	NC
63	NC	64	NC
65	NC	66	GND
67	PCIE_RST#	68	NC
69	NC	70	3.3V
71	GND	72	3.3V
73	GND	74	3.3V
75	NC		

This M2 socket is This KBY-B type compatible with both of USB devices

BAT Battery Connector

Part Number _____

Description Conn S10B-PHDSS 1x2Pin 0.5mm SMD

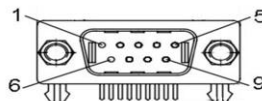


Pin	Signal	Pin	Signal
1	VCC_BAT	2	GND

COM2 RS232/RS485 Com Option

Part Number _____

Description CONN DB9 DR9SLM Male R/A 90° DIP-9 NPB

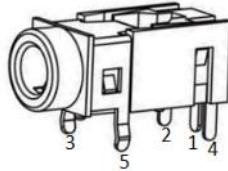


Pin	Signal	Pin	Signal
1	NC	2	HSIN1
3	HSOUT1	4	NC
5	GND	6	NC
7	NC	8	RS485A
9	RS485A		

AUDIO1 Line out and MIC

Part Number _____

Description AUDIO Jack PJ-3220(2 in 1 jack)

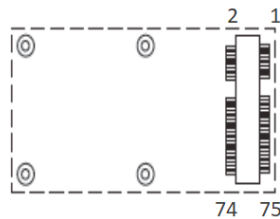


Pin	Signal	Pin	Signal
1	MIC	2	MIC
3	LINE-OUT_L	4	LINE-OUT_R
5	LINE-OUT_L		

SATA-M2 M2 Connector

Part Number _____

Description CONN M2 SOCKET H8.5mm KEY-B 75PIN SMD NPB



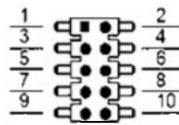
Pin	Signal	Pin	Signal
1	NC	2	3.3V
3	GND	4	3.3V
5	GND	6	NC
7	NC	8	NC
9	NC	10	NC
11	NC		
		20	NC
21	NC	22	NC
23	NC	24	NC
25	NC	26	NC
27	GND	28	NC
29	NC	30	NC
31	NC	32	NC
33	GND	34	NC
35	NC	36	NC
37	NC	38	NC
39	NC	40	NC
41	SATA_RXP0	42	NC

43	SATA_RXN0	44	NC
45	GND	46	NC
47	SATA_TXN0	48	NC
49	SATA_TXP0	50	NC
51	GND	52	NC
53	NC	54	NC
55	NC	56	NC
57	GND	58	NC
59	NC	60	NC
61	NC	62	NC
63	NC	64	NC
65	NC	66	NC
67	NC	68	NC
69	NC	70	3.3V
71	GND	72	3.3V
73	GND	74	3.3V
75	NC		

F PANEL1 Switch& RST&HDD LED & Power LED Pin header

Part Number _____

Description Pin Header 2x5 Pin 2.0mm DIP

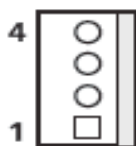


Pin	Signal	Pin	Signal
1	HDD_LED+	2	POWER LED+
3	SATA_LED-	4	GND
5	GND	6	PWR_BTN#
7	SYS_RST#	8	GND
9	NC	10	NC

CPU FAN CPU FAN connector

Part Number _____

Description CONN Wafer WDC104 1X4 1.25mm SMD-4P NPB



Pin	Signal	Pin	Signal
1	VCC	2	TACH

3	PWM	4	GND
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This is a SMART Fan, it can adjust the fan speed automatically based on CPU temp.

Contact Us

www.fushengtek.com

**Shanghai Fusheng Well Intelligent Control Technology
Co., Ltd.**

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