

# EMX-G41

Mini-ITX Intel® G41 LGA775 socket for Intel® Core™2 Quad

## User's Manual

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1<sup>st</sup> Ed – 27 december 2010

## FCC Statement



THIS DEVICE COMPLIES WITH PART 15 FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE.
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS "A" DIGITAL DEVICE, PURSUANT TO PART 15 OF THE 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 INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS.

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## **EMX-G41**

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This warranty does not apply to any products which have been repaired or altered by persons other than repair personnel authorized by Avalue, or which have been subject to misuse, abuse, accident or improper installation. Avalue assumes no liability under the terms of this warranty as a consequence of such events. Because of Avalue's high quality-control standards and rigorous testing, most of our customers never need to use our repair service. If any of Avalue's products is defective, it will be repaired or replaced at no charge during the warranty period. For out-of-warranty repairs, you will be billed according to the cost of replacement materials, service time, and freight. Please consult your dealer for more details. If you think you have a defective product, follow these steps:

1. Collect all the information about the problem encountered. (For example, CPU type and speed, Avalue's products model name, hardware & BIOS revision number, other hardware and software used, etc.) Note anything abnormal and list any on-screen messages you get when the problem occurs.
2. Call your dealer and describe the problem. Please have your manual, product, and any helpful information available.
3. If your product is diagnosed as defective, obtain an RMA (return material authorization) number from your dealer. This allows us to process your good return more quickly.
4. Carefully pack the defective product, a complete Repair and Replacement Order Card and a photocopy proof of purchase date (such as your sales receipt) in a shippable container. A product returned without proof of the purchase date is not eligible for warranty service.
5. Write the RMA number visibly on the outside of the package and ship it prepaid to your dealer.

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# 1. Getting Started

## 1.1 Safety Precautions

### Warning!



Always completely disconnect the power cord from your chassis whenever you work with the hardware. Do not make connections while the power is on. Sensitive electronic components can be damaged by sudden power surges. Only experienced electronics personnel should open the PC chassis.

### Caution!



Always ground yourself to remove any static charge before touching the CPU card. Modern electronic devices are very sensitive to static electric charges. As a safety precaution, use a grounding wrist strap at all times. Place all electronic components in a static-dissipative surface or static-shielded bag when they are not in the chassis.

## 1.2 Packing List

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

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

- 1 x EMX-G41 Intel® G41 Mini-ITX Module
- 1 x Quick Installation Guide
- DVD ROM containing Drivers and Utilities
- 2 x Sata cable kit(sata/power)
- 1 x Com 9p cable w/o bracket ph:2.00mm
- 1 x No logo printing driver CD (CD-R)
- 1 x AMI bios label
- 1 x I/O shield for IG41-IE1
- 1 x Printer cable d-sub 25P F/2\*13P-2.0 17CM



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

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### 1.3 Document Amendment History

Revision	Date	Comment
1 <sup>st</sup>	December 2010	Initial Release



## 1.4 Manual Objectives

This manual describes in detail the Avalue Technology EMX-G41 Motherboard Board.

We have tried to include as much information as possible but we have not duplicated information that is provided in the standard IBM Technical References, unless it proved to be necessary to aid in the understanding of this board.

We strongly recommend that you study this manual carefully before attempting to interface with EMX-G41 series or change the standard configurations. Whilst all the necessary information is available in this manual we would recommend that unless you are confident, you contact your supplier for guidance.

Please be aware that it is possible to create configurations within the CMOS RAM that make booting impossible. If this should happen, clear the CMOS settings, (see the description of the Jumper Settings for details).

If you have any suggestions or find any errors concerning this manual and want to inform us of these, please contact our Customer Service department with the relevant details.

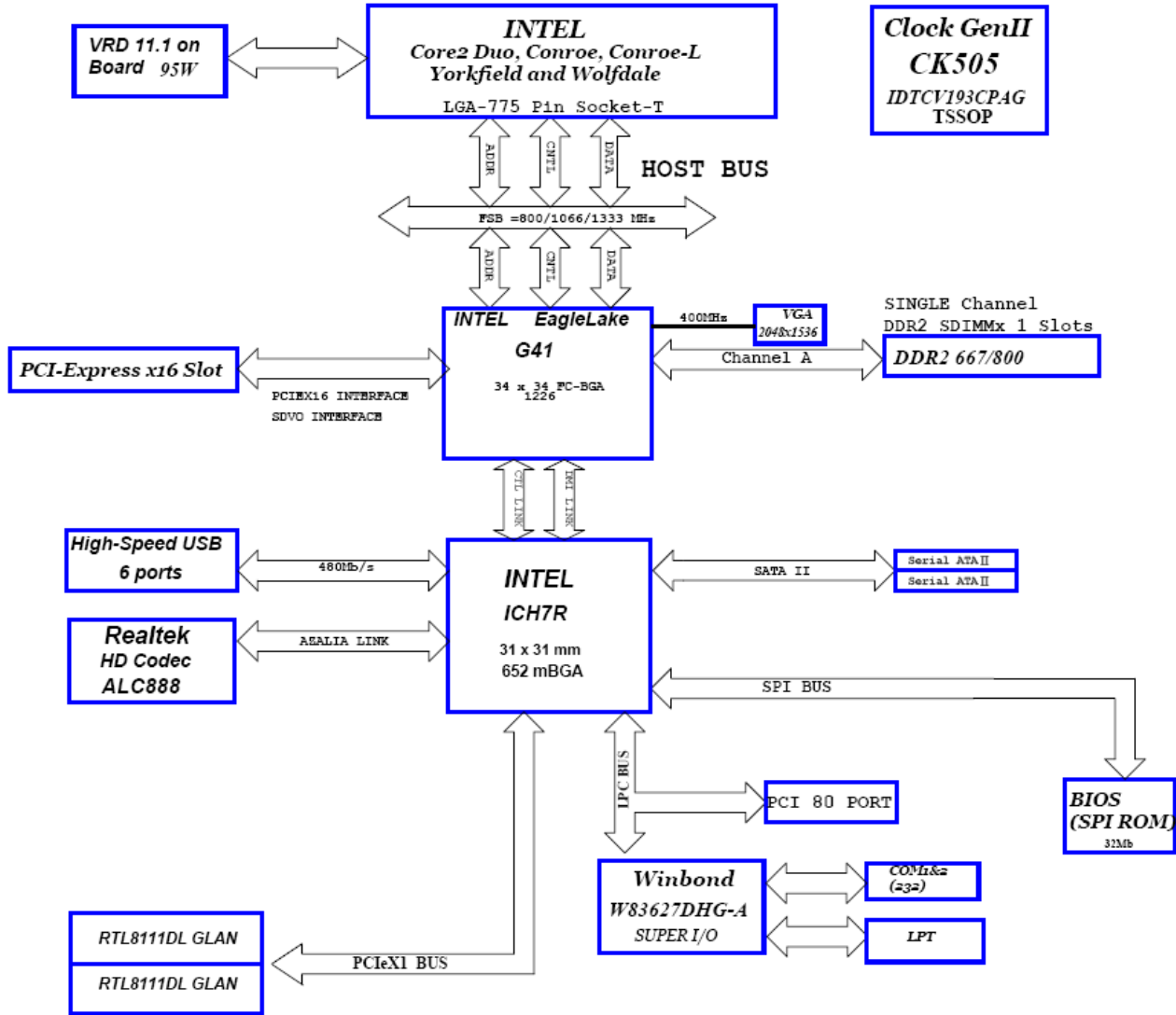
## 1.5 System Specifications

System	Mini-ITX
<b>CPU</b>	Socket 775 supports Core 2 Quad, Core 2 Duo 45nm CPU Supports CPU FSB 800/1066/1333 MHz
<b>Chipset</b>	Intel® G41 / ICH7R
<b>SIO</b>	Winbond W83627DHG-P
<b>Memory</b>	1 x 240 pin DDR DIMM socket supports DDRII memories 667/800 MHz up to 2GB
<b>Graphic</b>	
Chipset	Intel® Graphics Media Accelerator 4500 integrated
Display Memory	Intel® DVMT 4.0 Support up to 352MB Memory
VGA	2048 x 1536 @ 32bpp (75Hz)
LVDS	N/A
Dual Display	VGA + ADD2
<b>Audio</b>	
Audio Codec	Realtek® ALC888, 5.1 + 2 with Multiple Streaming HD Audio
Audio Interface	Mic in, Line in, Line out
Audio Amplifier	TPA3005D2 Stereo 5Watt per channel
<b>Ethernet</b>	
LAN 1	Realtek RTL8111DL PCI-E GbLAN Controller
LAN 2	Realtek RTL8111DL PCI-E GbLAN Controller
Wake up function	WOL
<b>BIOS</b>	
Core	AMI BIOS
Flash ROM	32MB Flash ROM
Watchdog Timer	Reset: 1 sec.~255 min. and 1 sec. or 1 min./step
H/W Status Monitor	Monitoring temperatures, voltages, and cooling fan status. Auto throttling control when CPU overheats
SmartFan Control	Yes, CPU FAN (by SIO)
<b>Power</b>	
Type	ATX (20+4pin)
<b>Power Management</b>	
ACPI	S1/S3/S4
<b>Internal I/O interface</b>	
USB 1.1/2.0	1 x pin-header support 2 devices (2x5, pitch 2.54mm)
LVDS	N/A
LCD Inverter	N/A

IDE	N/A
CF	N/A
MiniPCI	N/A
PCI-E x16	1 slot
COM (RS-232/422/485)	N/A
Front Audio	1 x pin-header, 2x5, pitch 2.54mm
FAN	1 x 4pin CPU FAN Connector
DIO	8-bit
<b>Rear I/O interface</b>	
PS/2	1 x Mini Din(KB/Mouse)
COM (RS-232)	2 port with 5V/12V power
LPT	1 box-header (2x13, pitch 2.54mm)
VGA	1 x VGA port (DB-15)
USB 2.0	4 x USB 2.0
LAN	2 x RJ45 port
Audio	Audio I/O (3 Jack)
<b>Mechanical</b>	
Form Factor	Mini-ITX
Size (L x W)	170x170mm
<b>Environmental</b>	
Power Requirement	T.B.D.
Operating Temperature	0~60°C
Operating Humidity	0%~90% Relative humidity (Non-condensing)
<b>Certifications</b>	
CE/FCC	Class A
<b>Supported OS</b>	
Windows	Windows XP / Windows 7
Linux	T.B.D.

## 1.6 Architecture Overview – Block Diagram

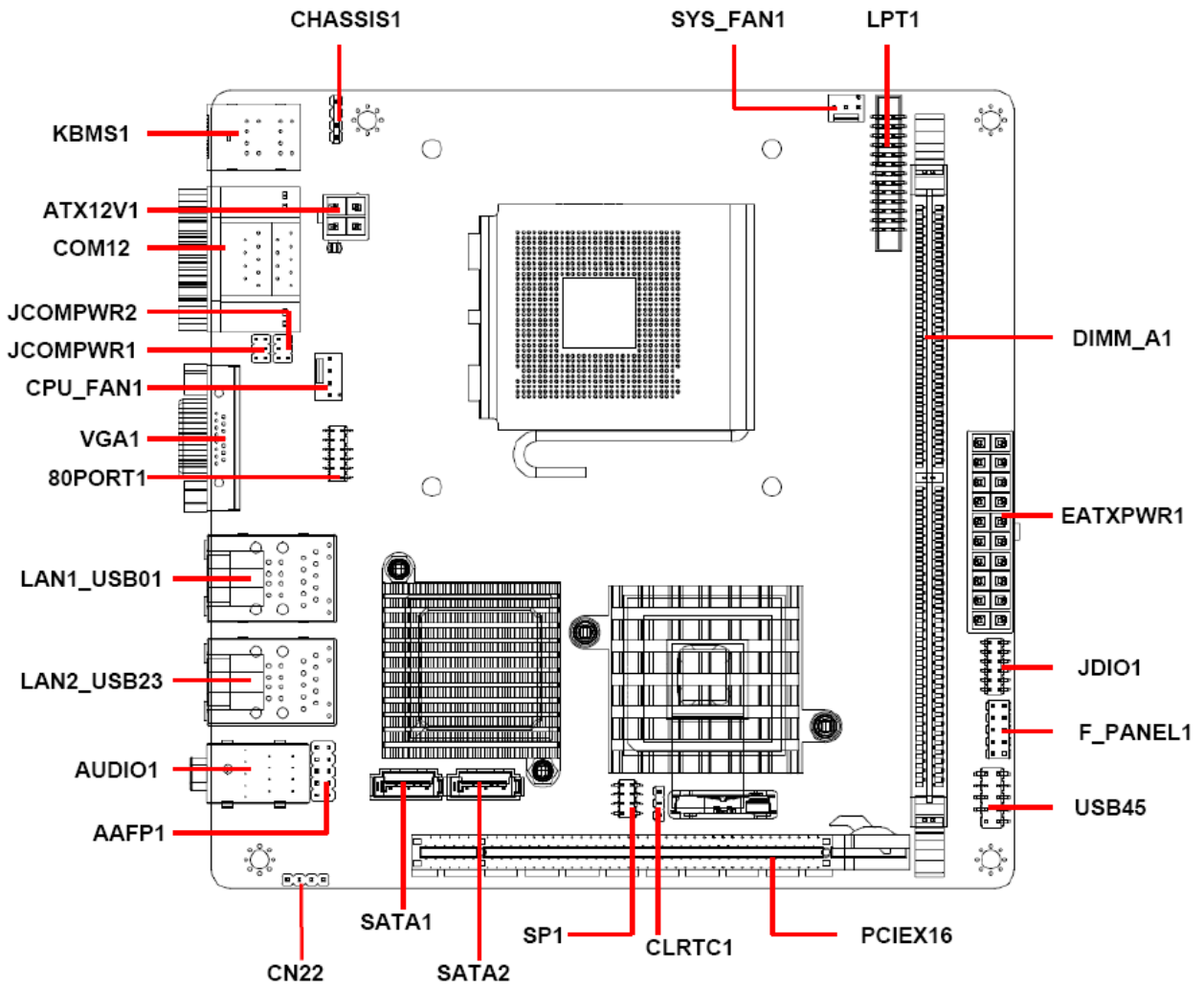
The following block diagram shows the architecture and main components of EMX-G41.



## 2. Hardware Configuration

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## 2.1 Product Overview



## 2.2 Installation Procedure

This chapter explains you the instructions of how to setup your system.

1. Turn off the power supply.
2. Insert the DIMM module (be careful with the orientation).
3. Insert all external cables for hard disk, floppy, keyboard, mouse, USB etc. except for flat panel. A CRT monitor must be connected in order to change CMOS settings to support flat panel.
4. Connect power supply to the board via the ATXPWR.
5. Turn on the power.
6. Enter the BIOS setup by pressing the delete key during boot up. Use the "LOAD BIOS DEFAULTS" feature. The **Integrated Peripheral Setup** and the **Standard CMOS Setup** Window must be entered and configured correctly to match the particular system configuration.
7. If TFT panel display is to be utilized, make sure the panel voltage is correctly set before connecting the display cable and turning on the power.

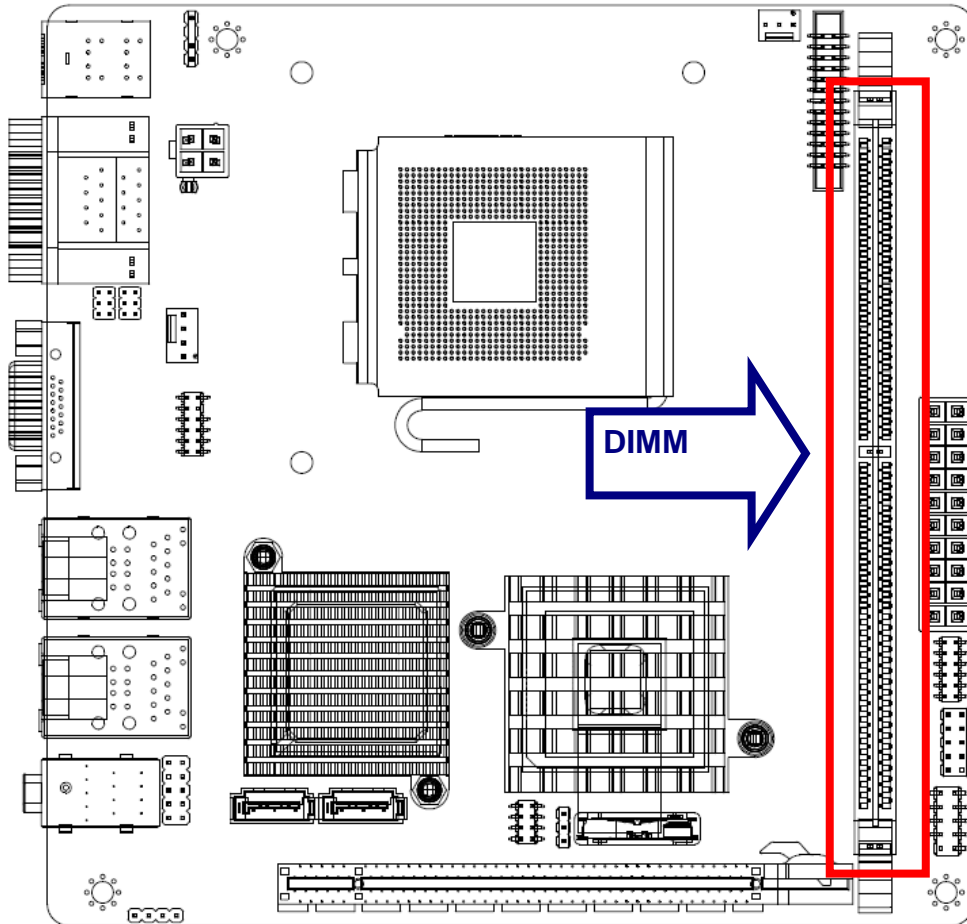


**Note:** Make sure the heat sink and the CPU top surface are in total contact to avoid CPU overheating problem that would cause the system to hang or unstable

## EMX-G41

### 2.2.1 Main Memory

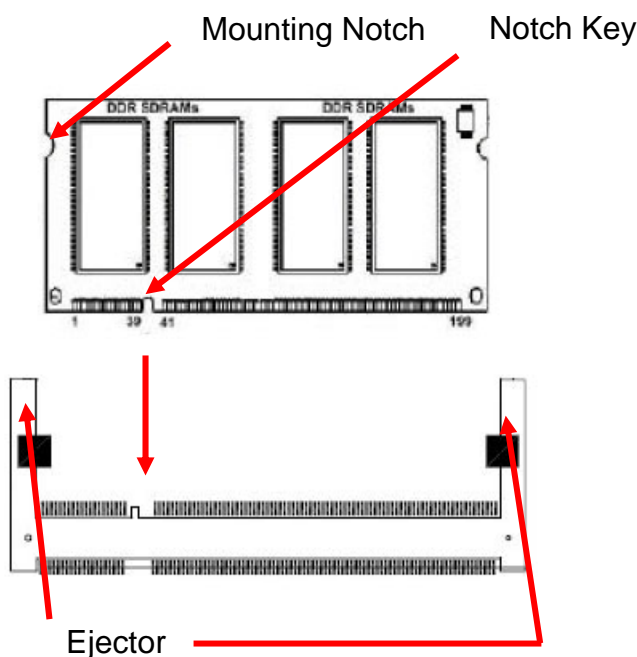
EMX-G41 provides 1 x 240 pin DDR DIMM socket that supports DDRII memories 667/800 MHz up to 2GB



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



- Locate the DIMM socket on the board.
- Hold two edges of the DIMM module carefully. Keep away of touching its connectors.
- Align the notch key on the module with the rib on the slot.
- Firmly press the modules into the socket automatically snaps into the mounting notch. Do not force the DIMM module in with extra force as the DIMM module only fit in one direction.



### 204-pin DDR2 DIMM

- To remove the DIMM modules, push the two ejector tabs on the slot outward simultaneously, and then pull out the DIMM module.



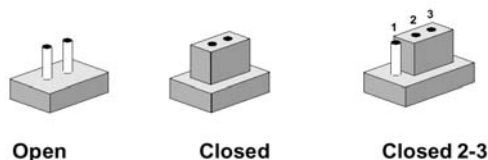
#### Note:

- (1) Please do not change any DDR2 SDRAM parameter in BIOS setup to increase your system's performance without acquiring technical information in advance.
- (2) Static electricity can damage the electronic components of the computer or optional boards. Before starting these procedures, ensure that you are discharged of static electricity by briefly touching a grounded metal object.

## 2.3 Jumper and Connector List

You can configure your board to match the needs of your application by setting jumpers. A jumper is the simplest kind of electric switch.

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 two pins.



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



A pair of needle-nose pliers may be helpful when working with jumpers.

Connectors on the board are linked to external devices such as hard disk drives, a keyboard, or floppy drives. In addition, the board has a number of jumpers that allow you to configure your system to suit your application.

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.

The following tables list the function of each of the board's jumpers and connectors.

### Jumpers

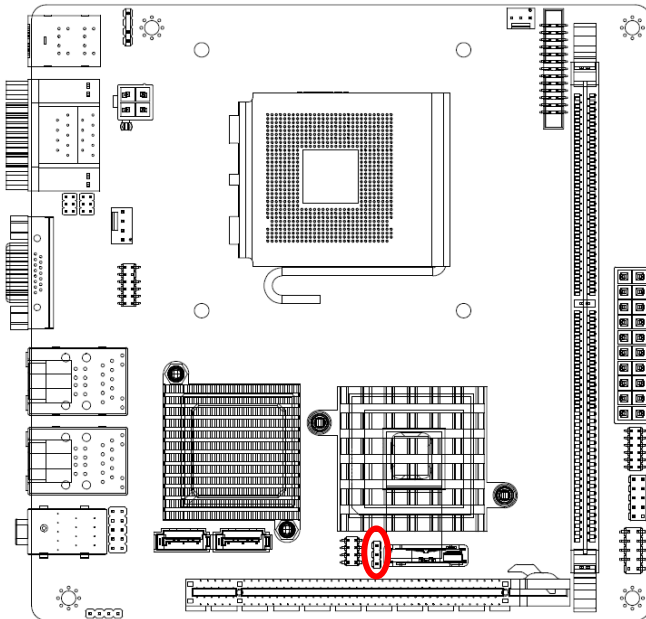
Label	Function	Note
<b>CLRTC1</b>	Clear CMOS	3 x 1 header, pitch 2.54mm
<b>CHASSIS1</b>	Chassis Intrusion Connector	4 x 1 header, pitch 2.54mm
<b>JCOMPWR1</b>	Power Selector Ring /+5V/+12V	3 x 2 header, pitch 2.0mm
<b>JCOMPWR2</b>	Power Selector Ring /+5V/+12V	3 x 2 header, pitch 2.0mm

## Connectors

Label	Function	Note
<b>AAFP1</b>	Front Panel audio Connector	5 x 2 header, pitch 2.54mm
<b>EATXPWR1</b>	ATX Power supply connector	10 x 2 wafer, pitch 4.2mm
<b>ATX12V1</b>	VRM Power supply connector	2 x 2 wafer, pitch 4.2mm
<b>AUDIO1</b>	Rear audio jack	
<b>CN22</b>	Amplifier connector	4 x 1 wafer, pitch 2.54mm
<b>COM12</b>	Serial port connector	D-sub 9-pin, male
<b>CPU_FAN1</b>	CPU fan connector	4 x 1 wafer, pitch 2.54mm
<b>DIMM_A1</b>	240pin DDR2 SODIMM Socket	
<b>F_PANEL1</b>	Front panel connector	5 x 2 header, pitch 2.54mm
<b>JDIO1</b>	General purpose I/O connector	6 x 2 header, pitch 2.0mm
<b>KBMS1</b>	Keyboard & Mouse connector	6 x 2 header
<b>LAN2_USB23</b>	RJ45 & USB connector	
<b>LAN1_USB01</b>	RJ45 & USB connector	
<b>LPT1</b>	Parallel Port Connector	13 x 2 header, pitch 2.0mm
<b>PCIEX16</b>	164 pin PCIEXPRESS socket	
<b>SATA1</b>	Serial ATA connector 1	
<b>SATA2</b>	Serial ATA connector 2	
<b>SP1</b>	SPI Connector	4 x 2 header, pitch 2.0mm
<b>SYS_FAN1</b>	System fan connector	3 x 1 wafer, pitch 2.54mm
<b>USB45</b>	USB connector	5 x 2 header, pitch 2.54mm
<b>VGA1</b>	VGA connector 1 & 2	D-sub 15-pin, female
<b>80PORT1</b>	Low Pin Count Interface	10 x 2 header, pitch 2.0mm

## 2.4 Setting Jumpers & Connectors

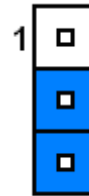
### 2.4.1 Clear CMOS (CLRTC1)



Normal\*

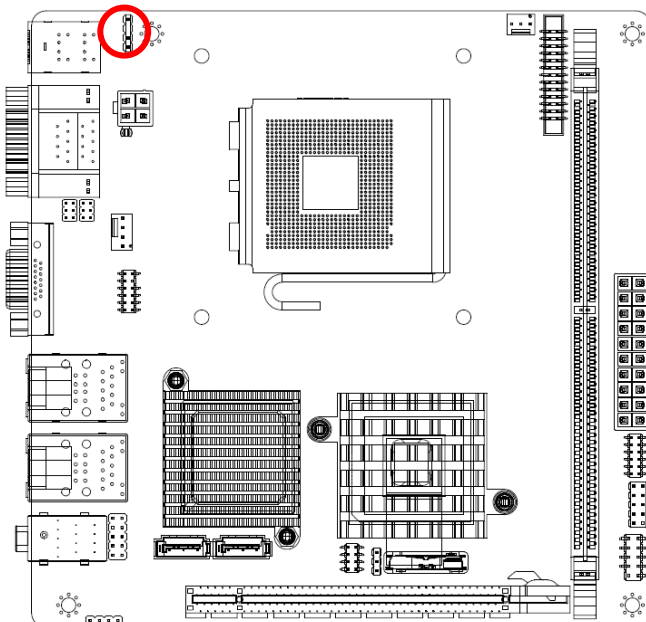


Clear CMOS

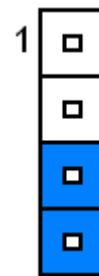


Default\*

### 2.4.2 Chassis Intrusion Connector (CHASSIS1)



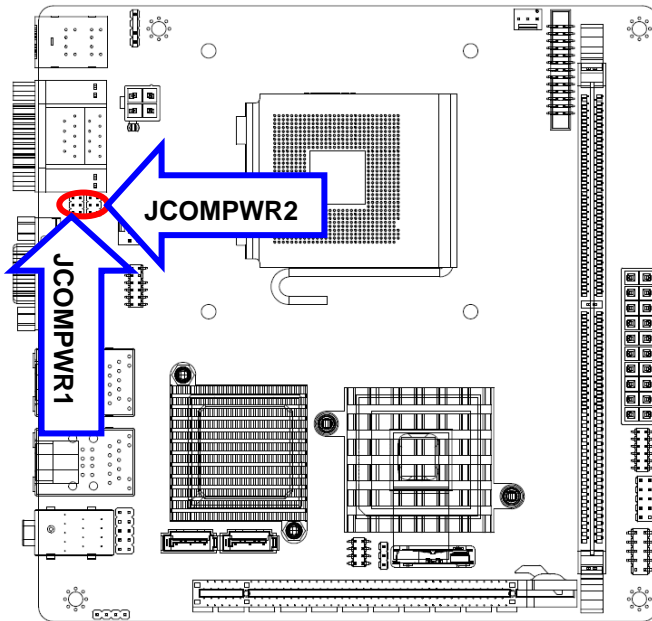
+5V\*



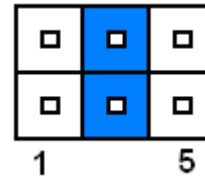
Signal	PIN
+5V	1
GND	3
Chassis signal	4

Default\*

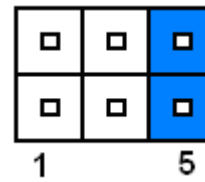
2.3.4 Power selector – Ring, +5V, +12V (JCOMPWR1/ JCOMPWR2)



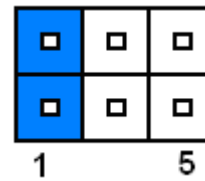
Ring\*



+5V



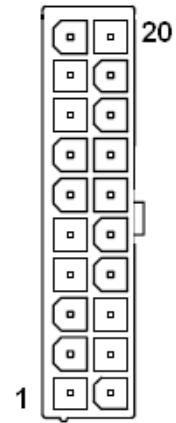
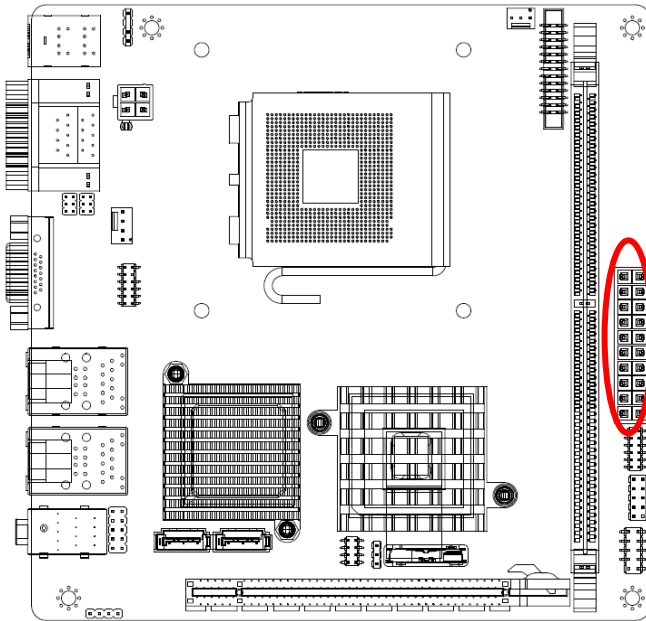
+12V



\*Default

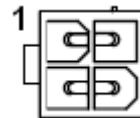
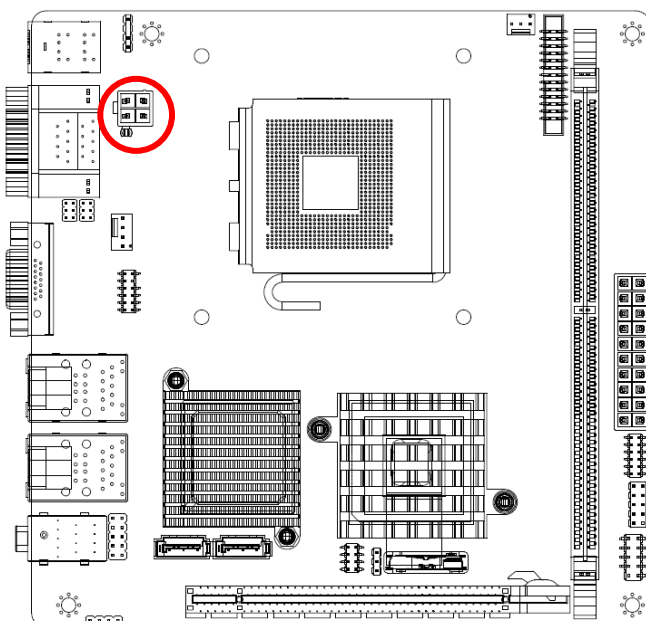
## EMX-G41

### 2.4.3 ATX power connector (EATXPWR1)



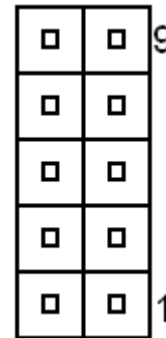
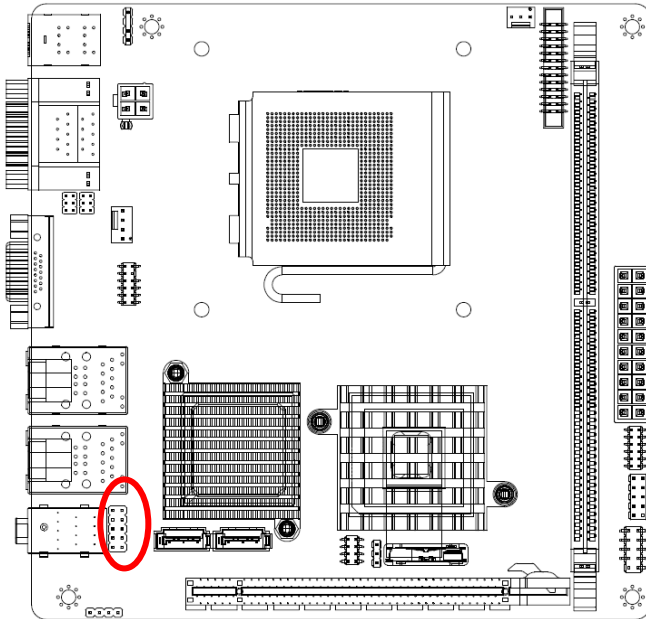
Signal	PIN	PIN	Signal
+12V	10	20	+5V
+5VSB	9	19	+5V
ATX_PWR	8	18	-5V
GND	7	17	GND
+5V	6	16	GND
GND	5	15	GND
+5V	4	14	PSOEN#
GND	3	13	GND
+3.3V	2	12	-12V
+3.3V	1	11	+3.3V

### 2.4.4 VRM Power supply connector (ATX12V1)



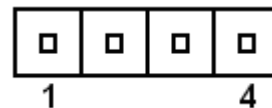
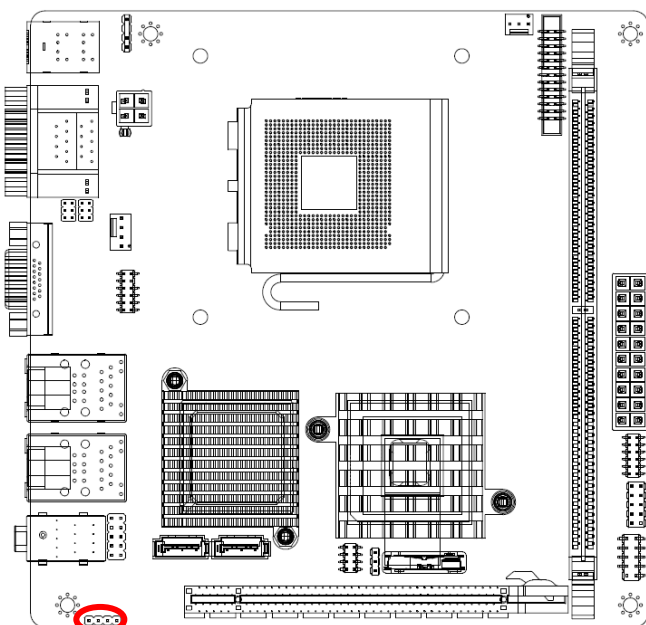
Signal	PIN	PIN	Signal
+12V	1	2	GND
+12V	3	4	GND

### 2.3.3 Front Panel Audio connector (AAFP1)



Signal	PIN	PIN	Signal
SENSE2_RTN	10	9	PORT2 L
	8	7	SENSE_SEND
SENSE1_RTN	6	5	PORT2 R
PRESENSE	4	3	PORT1 R
AGND	2	1	PORT1 L

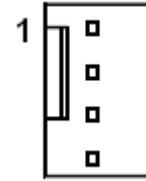
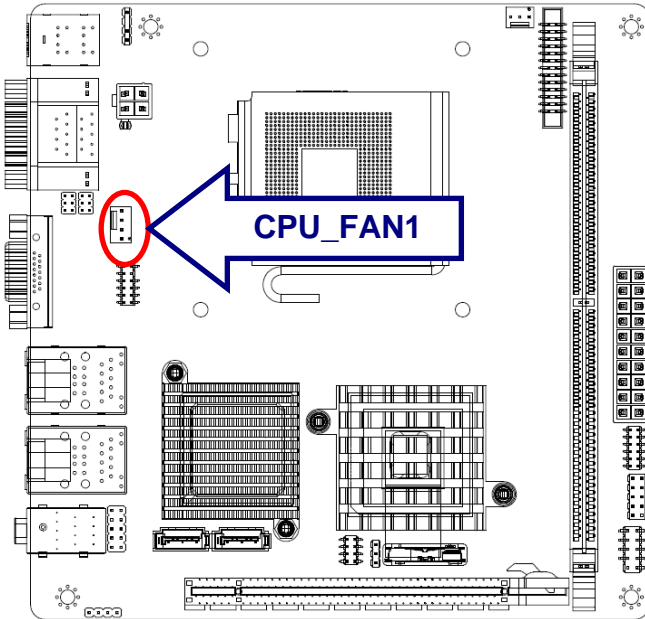
### 2.3.4 Amplifier connector (CN22)



Signal	PIN
AMP_L-	1
AMP_L+	2
AMP_R-	3
AMP_R+	4

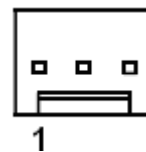
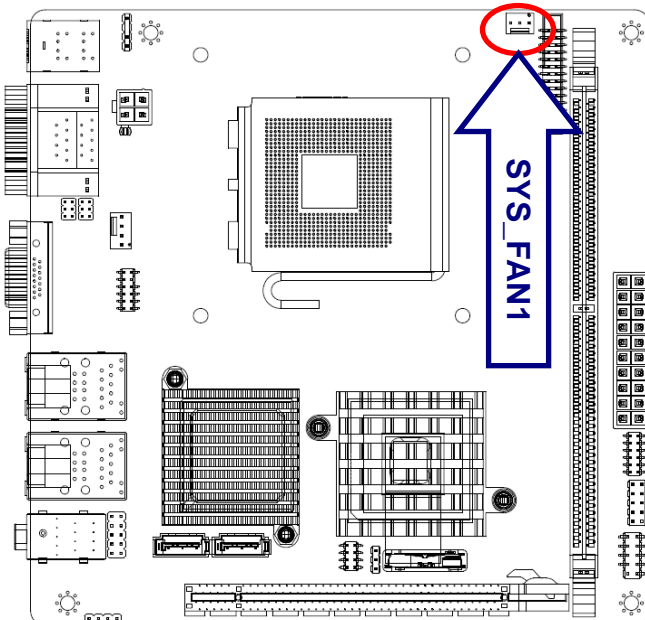
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## 2.3.5 CPU Fan Connector (CPU\_FAN1)



Signal	PIN
GND	1
+12V	2
FTAC2	3
FCTL2	4

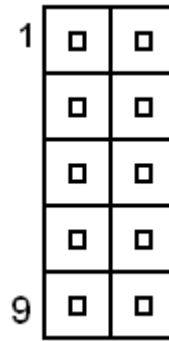
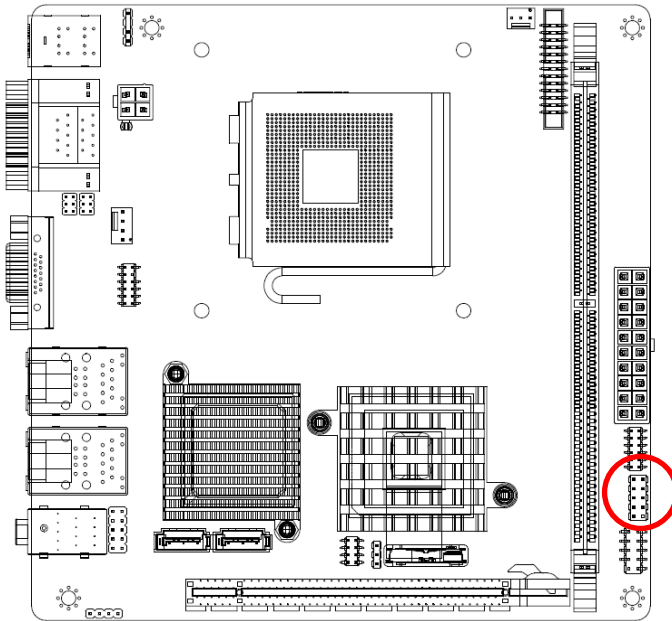
## 2.3.6 System Fan Connector (SYS\_FAN1)



Signal	PIN
GND	1
+12V	2
FTAC1	3

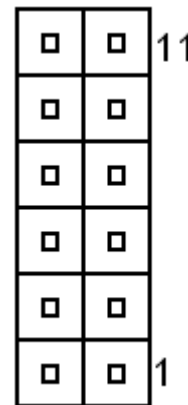
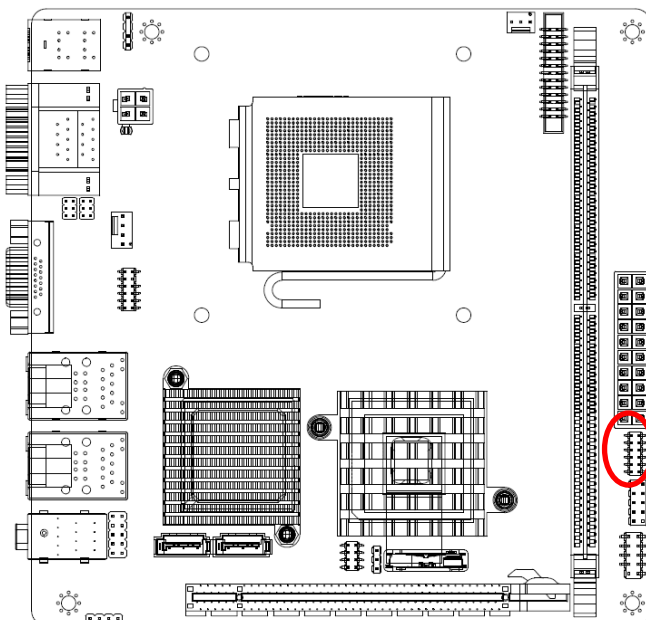


### 2.3.7 Front Panel Connector (F\_PANEL1)



Signal	PIN	PIN	Signal
HDLED+	1	2	FP_LED+
HD_LED#	3	4	FP_LED-
GND	5	6	PWRBTN#IN
SYS_RESET#	7	8	GND
NC	9	10	

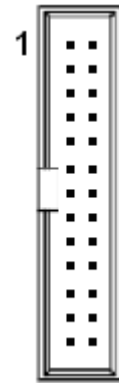
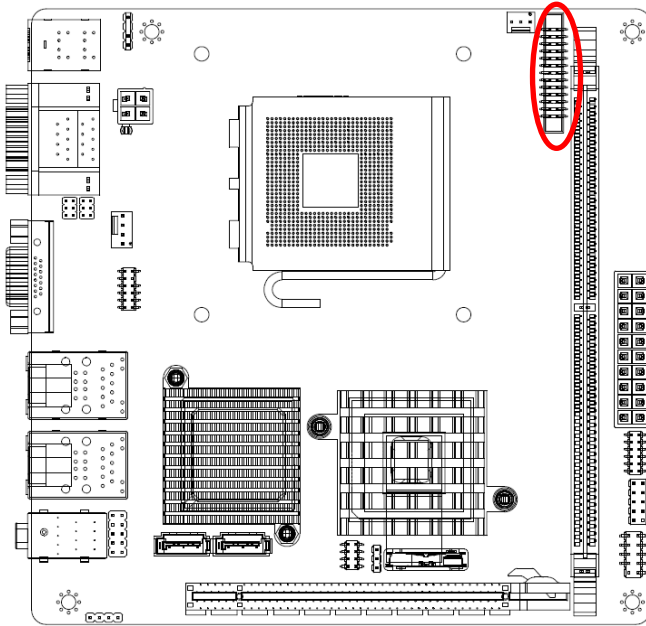
### 2.3.8 General purpose I/O connector (JDIO1)



Signal	PIN	PIN	Signal
+5V	12	11	GND
DATA	10	9	CLK
GPI3	8	7	GPO3
GPI2	6	5	GPO2
GPI1	4	3	GPO1
GPI0	2	1	GPO0

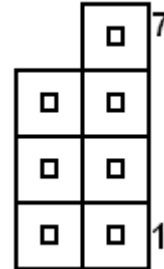
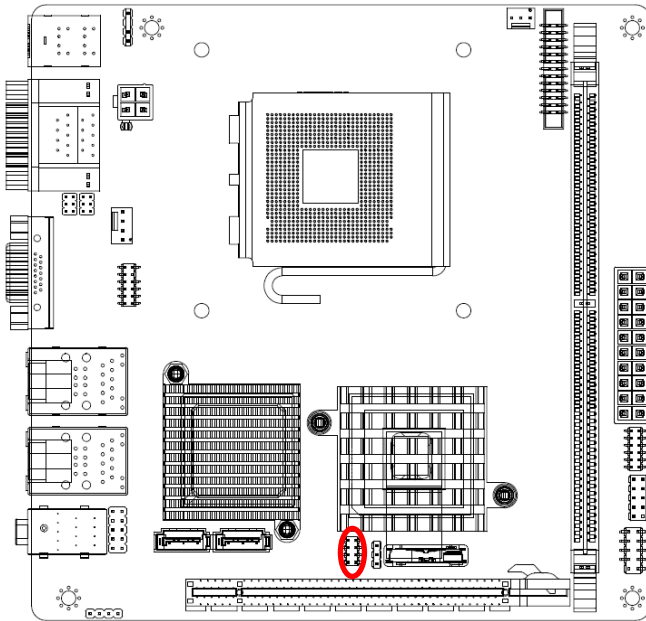
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## 2.3.9 Parallel port connector (LPT1)



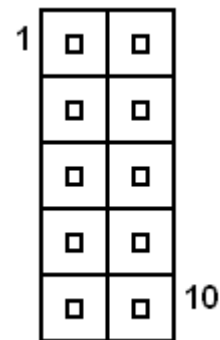
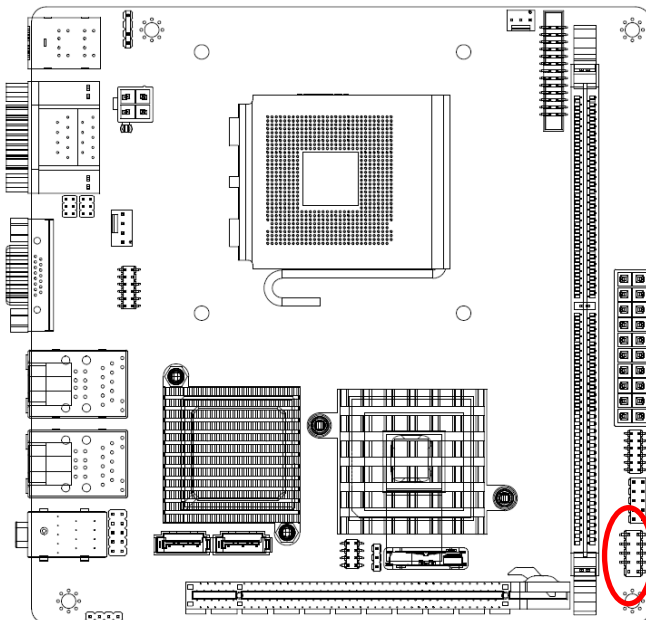
Signal	PIN	PIN	Signal
STB#	1	2	AFD#
PD0	3	4	ERR#
PD1	5	6	INIT#
PD2	7	8	SLIN#
PD3	9	10	GND
PD4	11	12	GND
PD5	13	14	GND
PD6	15	16	GND
PD7	17	18	GND
ACK#	19	20	GND
BUSY	21	22	GND
PE	23	24	GND
SLCT	25	26	GND

### 2.3.10 SPI connector (SP1)



Signal	PIN	PIN	Signal
		7	SPI_HOLD#
SPI_MOSI	6	5	SPI_MISO
SPI_CLK	4	3	SPI_CS#
GND	2	1	+3.3V

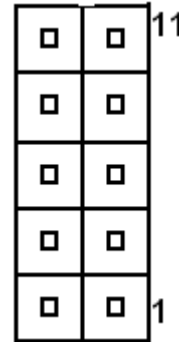
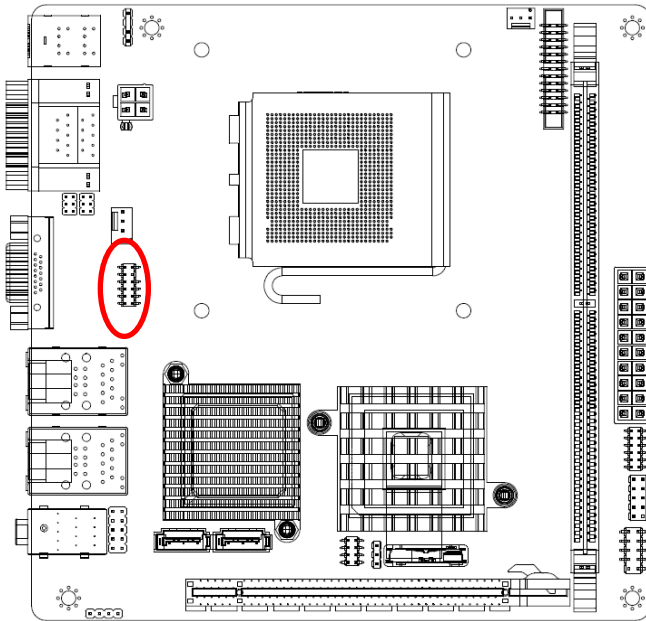
### 2.3.11 USB connector (USB45)



Signal	PIN	PIN	Signal
+5V_DUAL	1	2	+5V_DUAL
USBP4-_C	3	4	USBP5-_C
USBP4+_C	5	6	USBP5+_C
GND	7	8	GND
		10	NC

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## 2.3.12 Low Pin Count Interface (80PORT1)



Signal	PIN	PIN	Signal
GND	12	11	PCICLK80
GND	10		
LAD0	8	7	LFRAME#
LAD2	6	5	LAD1
PLTRST#	4	3	LAD3
+3.3V	2	1	NC

# 3. Mechanical Drawing



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