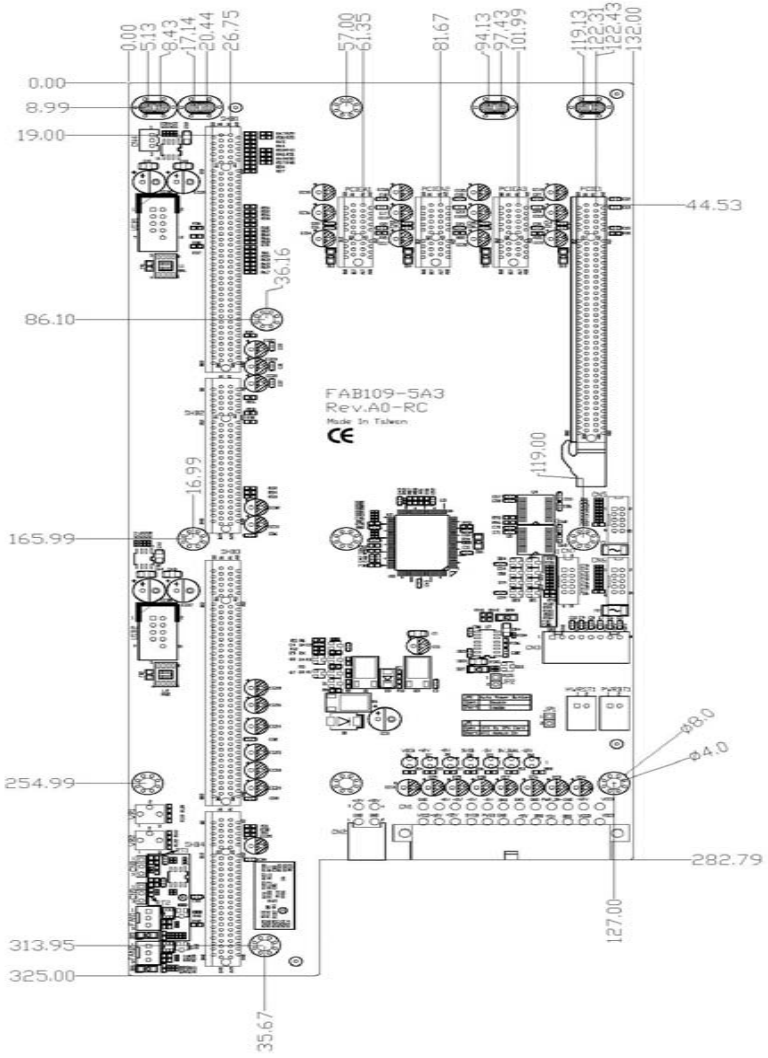
Board Dimensions



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FAB109-5A3 Quick Installation Guide

I. Checklist

✓ FAB109-5A3 5-Slot ATX-Supported PICMG 1.3 Bus Backplane x 1

✓ Quick Installation Guide x 1

Note: *Please contact your local vendors if any damaged or missing items. DO NOT apply power to the board if any damaged components.*

II. Jumper List

Jumper	Description
JP1	Open : ATX by CPU Card Short : ATX Power Always On
JP2 (Reserved)	Auto Power Button(Optional) Open : Disable Short : Enable

III. Connectors

Connector	Description
CN1	ATX Power Connector
CN2	12V 4Pin (+12V Auxiliary Power Connector)
CN3	8-Pin Power Connector for thermal board
CN4	SM Bus Connector
CN5,CN6,CN7(Reserved)	COM Ports and DIO Connector (Optional)
CN8;CN9(Reserved)	Thermal sensor Connector For FAN1& FAN2 (Optional)
USB1,2	USB 0,1,2,3
PWRBT1	ATX Power button connector
HWRST1	Hardware Reset Connector
FAN1;FAN2	FAN Connector
SHB1 – SHB4	PICMG 1.3 Full-SIZE SBC Slot
PCIE1	x16 PCIe Slot
PCIEA1-PCIEA3	X1 PCIe Slots
VR1,VR2 (Reserved)	Temperature Selection For FAN Control (Optional)

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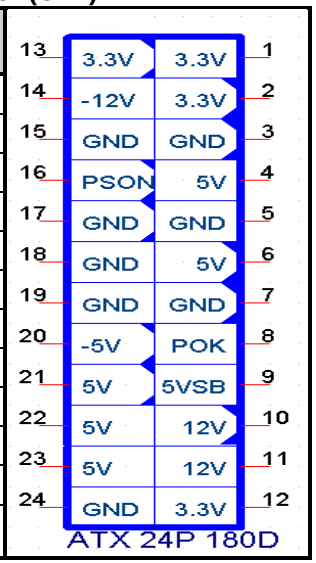
■ 24-Pin ATX Power Connector (CN1)

Pin	Signal	Cable Color	Pin	Signal	Cable Color
1	3.3V	Brown	13	3.3V	Brown
2	3.3V	Brown	14	-12V	Blue
3	GND	Black	15	GND	Black
4	5V	Red	16	PS_ON	Green
5	GND	Black	17	GND	Black
6	5V	Red	18	GND	Black
7	GND	Black	19	GND	Black
8	PWOK	Orange	20	-5V	White
9	5VSB	Purple	21	5V	Red
10	12V	Yellow	22	5V	Red
11	12V	Yellow	23	5V	Red
12	3.3V	Brown	24	GND	Black

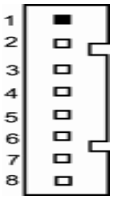


■ 4Pin +12V Auxiliary Power Connector (CN2)

Pin	Signal	Cable Color	Pin	Signal	Cable Color
1	GND	Black	3	12V	Yellow
2	GND	Black	4	12V	Yellow

■ Power Output Connector (CN3)

Pin	Signal	Pin	Signal
1	GND	5	-5V
2	GND	6	5V
3	5VSB	7	-12V
4	3.3V	8	12V



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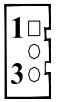
FAB109-5A3 Quick Installation Guide

■ SM Bus Connector (CN4)

Pin	Signal
1	SM_CLK
2	SM_DAT
3	GND



■ Power ON/OFF Push Button Connector (PWRBT1)

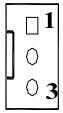
Pin	Signal
1	PWR_BT
2	GND

■ Hardware Reset Connector (HWRST1)

Pin	Signal
1	HW_RST
2	GND

■ FAN Connector (FAN1, FAN2)

Pin	Signal
1	GND
2	+12V
3	N.C or Rotation Detection (Reserved)



■ USB Connectors (USB1, USB2)

Pin	Signal	Pin	Signal
1	USB Power	2	USB Power
3	USB P0-	4	USB P1-
5	USB P0+	6	USB P1+
7	USB GND	8	USB GND
		10	GND

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