

PCE-4B13-00

Backplane: 13 Slot PICMG 1.3 Half-size BP for 14-slot Rackmount Chassis, 1 x PCIe x8, 11 x PCIe x4 Startup Manual

Packing List

Before you begin installing your card, please make sure that the following items have been shipped:

- PCE-4B13-00 Startup Manual 1st Ed. p/n: 20014B1300
- 2-year quality warranty card p/n: 2190000902

If any of these items are missing or damaged, please contact your distributor or sales representative immediately.

Specifications

Standard functions

- **PICMG 1.3 slots:** PCE-4B13-00 supports PICMG 1.3 half-size server grade SHB (PCE-4XXX series)
- **PCIe slots:** PCE-4B13-00 supports one PCIe x8 slot, eleven PCIe x4 slot
- **PCI slots:** N/A

Mechanical and Environment

- **Dimensions:** 315 x 243.84
- **Power supply voltage:** +12 V, +5 V, -12 V, +3.3 V +5 VSB
- **Power requirements:** Refer to the CPU Board, add-on card & peripherals
- **Operating temperature:** 0 ~ 60 °C
- **Weight:** 0.516 kg (weight of board)

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<http://www.advantech.com>

<http://www.advantech.com/eplatform>

For technical support and service, please visit our support website at:

<http://www.advantech.com.tw/support>

This manual is for the PCE-4B13-00 series.

Part No. 20014B1300

Printed in China

1st Edition

November 2014

Jumpers and Connectors

Connectors

Label	Function
SHBA1 ~ SHBB1	PICMG1.3 CPU board slot
PPCIE1	PCIe x8 slot
PPCIE2	PCIe x4 slot (From PCH)
P1PCIE1-P1PCIE10	PCIe x4 slot (From PLX8748)
EATXPWR1	ATX2.0 24-pin power connector
VOLT1	Alarm board power connector
EATX12V1, EATX12V2	ATX 12V Auxiliary 8-pin power connector
FAN1~FAN7	FAN connector
FANDEC1	FAN detector connector
SMBUS1, SMBUS2	SMBus connector for chasis monitor
JFP1	Power and Reset button connector

Jumpers

Label	Function
PSON1	ATX/AT Mode Selection
JGENSEL1	PCIe generation selection connector
JCOMP1	Enable compatibility for non-compliant Gen1 end point

Jumpers and Connectors (Cont.)

EATXPWR1

Pin	Name
1	3.3 V
2	3.3 V
3	GND
4	5 V
5	GND
6	5 V
7	GND
8	Power OK
9	5 V SB
10	12 V
11	12 V
12	3.3 V
13	3.3 V
14	-12 V
15	GND
16	PSON#
17	GND
18	GND
19	GND
20	-5 V
21	5 V
22	5 V
23	5 V
24	GND

VOLT1

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

Jumpers and Connectors (Cont.)

FAN1 ~ FAN7

Pin	Name
1	GND
2	12 V
3	FANIO1~FANIO7

SMBUS1, SMBUS2

Pin	Name
1	5 V
2	SMBCLK
3	SMBDAT
4	GND

EATX12V1, EATX12V2

Pin	Name
1	GND
2	GND
3	GND
4	GND
5	12V
6	12V
7	12V
8	12V

SMBUS1, SMBUS2

Pin	Name
1	5 V
2	SMBCLK
3	SMBDAT
4	GND

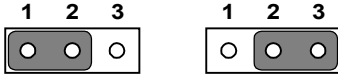
JFP1

Pin	Name
1	PWRBTN#
2	GND
3	RESET#
4	GND

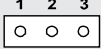
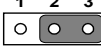
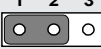
Jumpers and Connectors (Cont.)

PSON1: ATX/AT Mode Selection

Jumper Setting	Function
1-2	AT mode
2-3 (Default)	ATX mode



JGEN1: PCIe Generation Selection Connector

Jumper Setting	Function
No jumper 1 2 3 	Gen2
2 - 3 closed pins 1 2 3 	Gen1
1 - 2 closed pins 1 2 3 	Gen3 (Default)

Jumpers and Connectors (Cont.)

JCOMP1: Enable compatibility for Non-Compliant Gen1 Endpoints

Jumper Setting	Function
1 - 2 closed pins	Normal
2 - 3 closed pins	Enable Gen1 Endpoints Compatibility (Default)



Locating Connectors and Jumpers

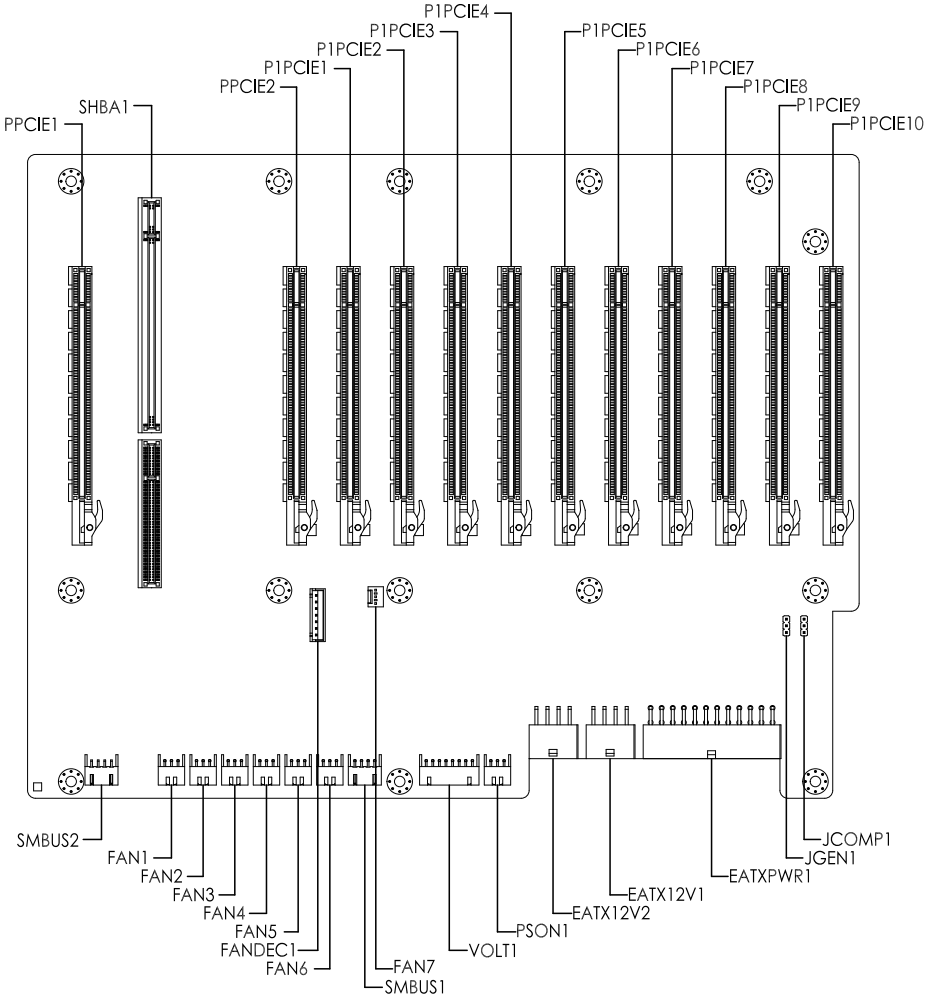


Figure 1: PCE-4B13-00 Connectors and Jumpers

Board Dimensions

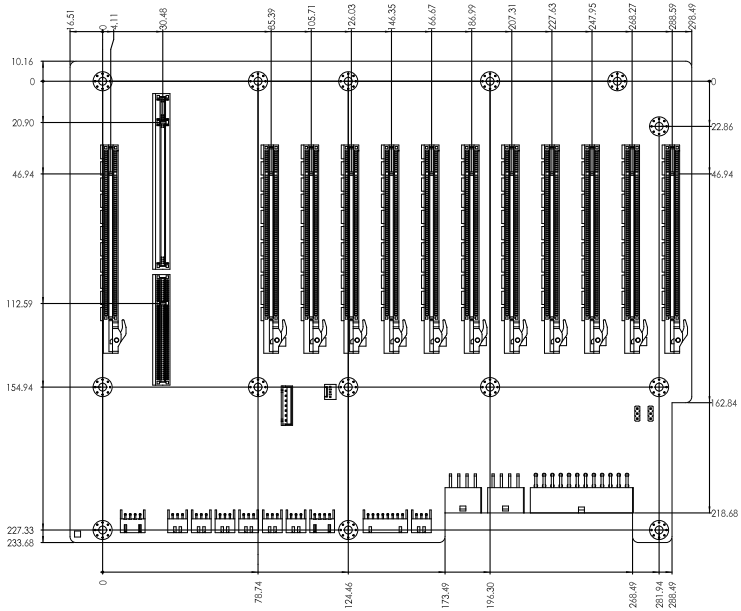


Figure 2: PCE-4B13-00 Board Dimensions

Board Diagram

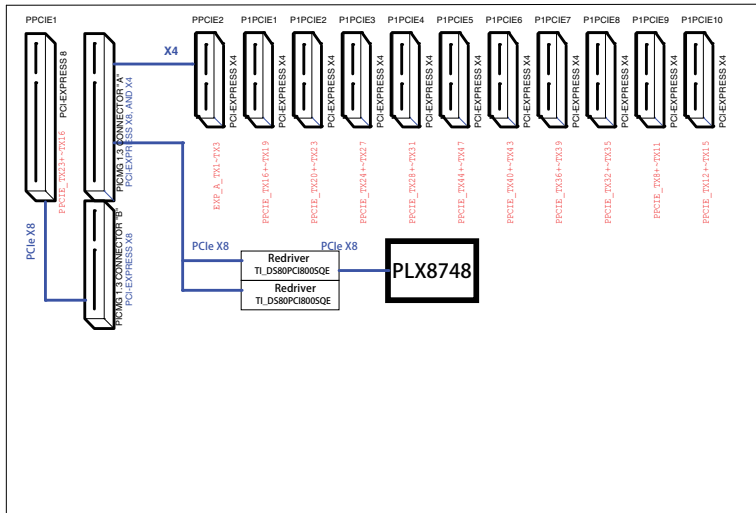


Figure 3: PCE-4B13-00 Board Diagram