

PBP-13D4 2 PICMG/4 PCI Dual System

Passive Backplane

The PBP-13D4 backplane is fully PICMG Rev 2.1 compliant. It is a member of PBP's PCI product family and is intended to support all PICMG compliant boards on the market.

The board's main features include:

Connector

2 x Dual slot PCI/ISA for the CPU board for each single system

Four (Three) 5V 32bit PCI slots for full-size boards on the Primary bus in left (right) system. These slots are Master/Slave configurable by using Bus Mastering Scheme for each single system

One AT standard power connector: 12 pins, 5A max. per pin for +5V, -5V, +12V, -12V voltages, Ground, and Power Good signal.

One ATX standard power connector: 20 pins, 5A max. per pin for +5V, -5V, +12V, -12V, +3.3V voltages, Ground, and Power Good signal.

*One ATX power switch to apply toggle switch for ATX power adoption.

Pairs of header for local connection of a keyboard and fan power for each single system

Power LED

PCB

The Printed Circuit Board's (PCB) overall dimensions are 257mm x 317mm (101.2" x 124.8"), and total thickness is 1.6mm.

Mounting holes are provided and are located to conform to the baby AT form factor. Mounting holes are connected to Signal Ground internally.

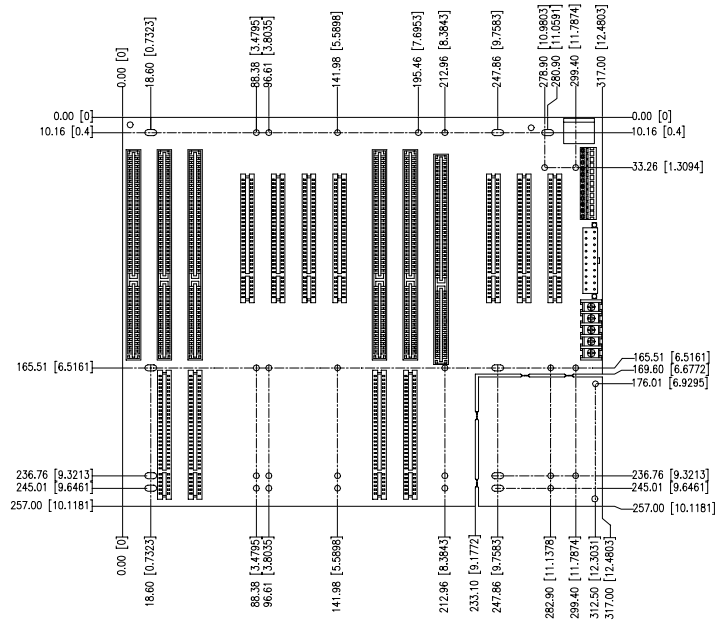
Operating temperature : 0°C ~ 55°C

Storage temperature : -20°C ~ 75°C

Standard

PCI- conforms to PICMG rev. 2.1 specification

ISA- conforms to IEEE P996 specification.



1. JUMPERS and CONNECTORS:

JUMPER/ CONNECTOR	DESCRIPTION
PCI A, B, C, D ISA slot 2~5	PICMG connectors
PCI1-7	32BIT PCI BUS connectors
KB1-5	Keyboard connector
CN1, CN2	Chassis fan power connectors
CN3, CN4	Fan Connector
CN5	ATX P/S control connector
CN7	P8/P9 power connector
CN8	ATX power connector
CN9	Power extension terminal block

2 PIN ASSIGNMENT

ATX			
PIN	NAME	PIN	NAME
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PS-ON
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	PWR-OK	18	-5V
9	5V SB	19	+5V
10	+12V	20	+5V

KB1~KB5	
PIN	NAME
1	CLK
2	DATA
3	NC
4	GND (Via SBC)
5	+5V (Via SBC)

*Note: this keyboard assignment varies if a non-ROBO SBC is used with the backplane.

P8/P9	
PIN	NAME
1	NC
2	+5V
3	+12V
4	-12V
5	GND
6	GND
7	GND
8	GND
9	-5V
10	+5V
11	+5V
12	+5V

CN9	
PIN	NAME
1	GND
2	+12V @ 5A
3	+5V @ 5A
4	-12V @ 0.5A
5	-5V @ 0.5A

CN 3, CN4	
PIN	NAME
1	+12V
2	GND

CN1, CN2	
PIN	NAME
1	+12V
2	GND
3	GND
4	+5V

CN5* (For ATX P/S only)	
PIN	NAME
1	PW-OK
2	5VSB
3	PS-ON
4	GND

***Note:** If you are using a non-ATX featured SBC board with ATX power supply, you can turn the ATX power supply into AT type by adding an on-off switch over pin3 and 4. By default, pin 3 and 4 is short to trigger the ATX power supply to ON status.