

# PBP-06P3 3 PCI/2 PICMG Passive Backplane

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**T**he PBP-06P3 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**

Dual slot PCI/ISA for the CPU board

One ISA slots for full-size ISA boards.

Three 5V 32bit PCI slots for full-size boards on the Primary bus. These slots are Master/Slave configurable by using Bus Mastering Scheme.

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 control connector to distribute signals coming from the CPU boards onto connector for soft on/off an ATX power supply.

Pairs of header for local connection of a keyboard, fan power, and Power LED.

## **PCB**

The Printed Circuit Board's (PCB) overall dimensions are 133mm x 263.1mm (5.236" x 10.36"), and total thickness is 1.6mm.

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

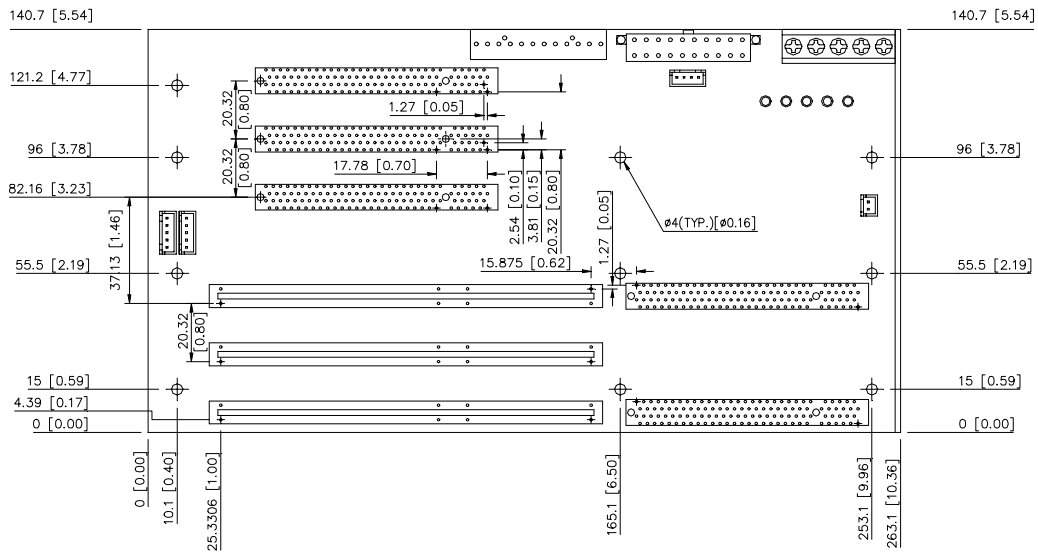
Operating temperature : 0°C ~ 55°C

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/ISA 1,3	PICMG connectors
PCI1-3	32BIT PCI BUS connectors (primary)
KB1, KB2	Keyboard connector
CN1	FAN power connector
CN2	FAN connector
CN3	ATX P/S control connector
CN4	P8/P9 power connector
CN5	Power extension terminal block
CN6	ATX power connector

## 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 STB	19	+5V
10	+12V	20	+5V

KB1, KB2	
PIN	NAME
1	CLK
2	DATA
3	NC
4	GND (Via SBC)
5	+5V (Via SBC)

\*Note: this pin assignment may vary 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

CN 2	
PIN	NAME
1	+12V
2	GND

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

CN5	
PIN	NAME
1	GND
2	+12V @ 5A
3	+5V @ 5A
4	-12V @ 0.5A
5	-5V @ 0.5A

CN3* (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.