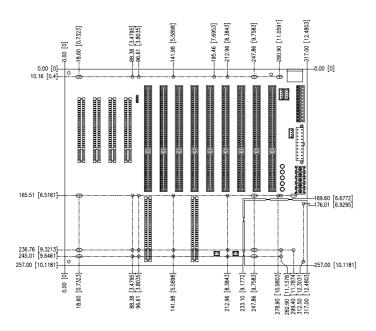
PBP-13R4 7ISA/ 4 PCI/2 PICMG Passive Backplane

He PBP-13R4 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: Dual slot PCI/ISA for the CPU board **Connector** Seven ISA slots for full-size ISA boards. Four 5V 32bit PCI slots for full-size boards on the Primary bus. These slots are Master/Slave configurable by using Bus Mastering Scheme. ne AT standard power connector: 12 pins, 5A max. per pin for +5V, -5V, +12V, -12V ound, 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. One Keyboard DIN connector. The Printed Circuit Board's (PCB) overall dimensions are 257mm x 317mm (101.2"x124.8"), PCB 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 A1,B1 | PICMG connectors |
| ISA 1, 4 PPCI1-4 | 32BIT PCI BUS connectors |
| ISA slot 2, 3, 5~9 | (primary) 16BIT ISA BUS connectors |
| KB1, KB2, KB3 CN1 | keyboard connector Chassis fan power connector |
| CN2, CN3 CN4 | Fan connector ATX P/S control connector |
| CN5 CN6 | P8/P9 power connector Power extension pins |
| CN7 | 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 and KB3 | |
|------------------|---------------|
| 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/P | 9 |
|--------|------|
| PIN | NAME |
| 1 | NC |
| 2 3 | +5V |
| | +12V |
| 4 | -12V |
| 5 | GND |
| 6 | GND |
| 7 | GND |
| 8 | GND |
| 9 | -5V |
| 10 | +5V |
| 11 | +5V |
| 12 | +5V |

| CN 2, | CN3 |
|-------|--------|
| PIN | NAME |
| 1 | +12V |
| 2 | GND |
| | |
| CN1 | |
| PIN | NAME |
| 1 | . 1017 |
| | +12V |
| 2 | GND |
| | |

| CN6 | |
|-----|-------------|
| PIN | NAME |
| 1 | GND |
| 2 | +12V @ 5A |
| 3 | +5V @ 5A |
| 4 | -12V @ 0.5A |
| 5 | -5V @ 0.5A |

| | (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.