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PICMG Backplane with 11-Slots
(PICMG x 2, PCI x 8, ISA x 1)
BPM-1111

BPM-1111 is the Backplane board which have the 2 PICMG (PICMG+ PICMG/PCI) + 8 PCI + 1 ISA slots. The Backplane board have two CPU board(SBC) PICMG Bus slots(PICMG1and PICMG2) and eight PCI Bus slots(PCI2 - PCI9) and one ISA Bus slot(ISA1). PICMG2 and PCI1 is shared Bus slot.

Features

- 1PICMG +1PICMG/PCI + 8 PCI +1 ISA slots
- Support for ATX and AT compliant power supply.
- The optional chassis suitable for mounting.

Package Contents

- The BPM-1111 Backplane Board
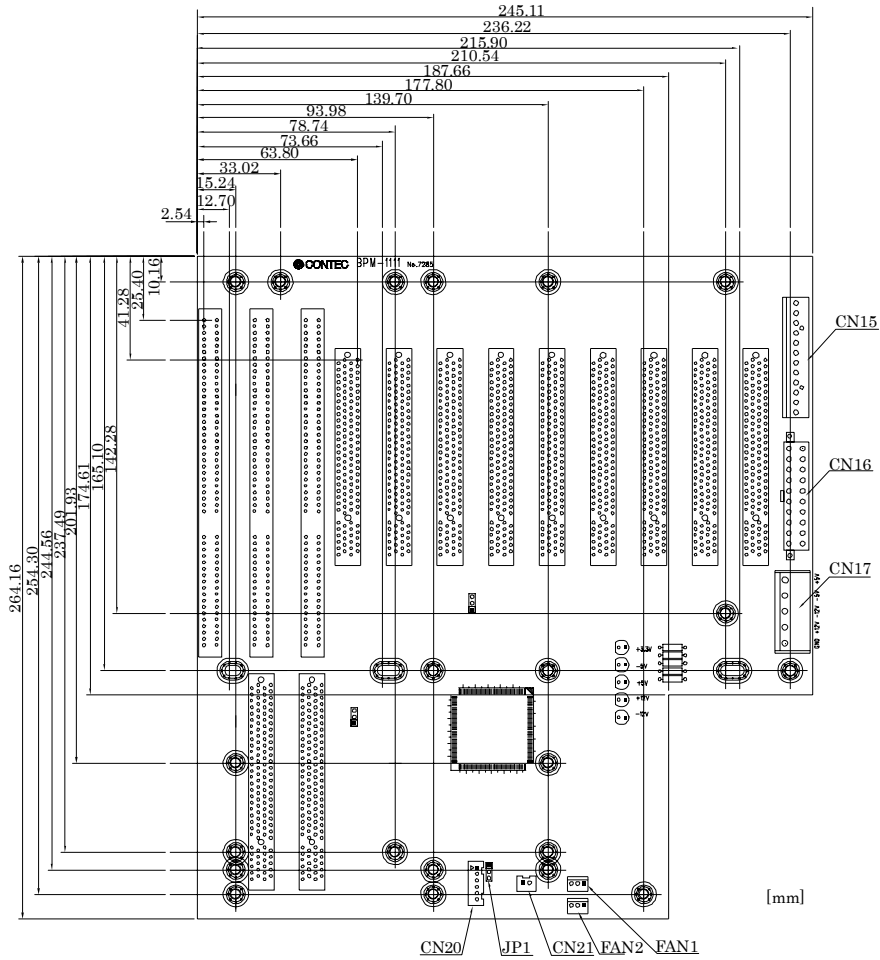- This User's Manual
- ATX Control 6pin Cable

Specifications

Item	Specification
Correspondence bus	PCI/ISA(PICMG) Bus, ISA Bus , PCI Bus
Number of slots *1	CPU board(SBC) PICMG bus slot(PICMG1) x 1 *1 CPU board(SBC) PICMG/PCI shared bus slot (PICMG2 / PCI1) x 1 *1 PCI bus slot(PCI2 - PCI9) x 8 ISA bus slot(ISA1) x 1
Supply power	+5VDC, -5VDC, +12VDC, -12VDC, +3.3VDC(only for ATX power supply)
Operating conditions	0 - 60 °C , 10 - 90% RH(No condensation)
Storage conditions	-20 - 70 °C
Floating dust particles	Not to be excessive
Corrosive gases	None
Major dimensions (mm)	245.11W) x 264.16(D)
Weight	585 g
Installable unit dimensions	FA-UNIT-F11RFV

*1 The CPU board(SBC) must install it to the PICMG slot(PICMG1 or PICMG2).

*2 PICMG2/PCI1 slot is a shared slot. Only one of the boards, PICMG or PCI, can be mounted.

Board Dimension

[mm]

Jumper Setting and Connectors

◆ AT Power Supply Connector: CN15

	Pin No.	Function
CN15	1	Power Good
	2	+5V
	3	+12V
	4	-12V
	5	GND
	6	GND
	7	GND
	8	GND
	9	-5V
	10	+5V
	11	+5V
	12	+5V

Suitable Housing   : GTC6P-1(correspond)
Suitable Contact   : PCK18-2TR9(correspond)
Maker   : BURNDY

Option Cable
(One side is solder disposal.)
 Model   : PCA-6P2 CONTEC
 Cable length 36cm(AWG#18), One side is solderdisposal

◆ ATX Power Supply Connector: CN16

When used with an ATX-compliant power supply that supports remote power on/off, the CPU card can turn off the system power through software control.

To enable soft-off control in software, advanced power management must be enabled in the Setup program and in the operation system. When the system BIOS receives the correct APM command from the operating system, the BIOS turns off power to the computer.

With soft-off enabled, if power to the computer is interrupted by a power outage or a disconnected power cord, when power resumes, the computer returns to the power state it was in before power was interrupted (on or off).

Pin No.	Function	Pin No.	Function
11	+3.3V	1	+3.3V
12	-12V	2	+3.3V
13	GND	3	GND
14	PON	4	+5V
15	GND	5	GND
16	GND	6	+5V
17	GND	7	GND
18	-5V	8	Power Good
19	+5V	9	+5VSBY
20	+5V	10	+12V

CN16 (11 / 1 ... 20 / 10)

Suitable Housing : 39-01-2200 (correpond)
Suitable Contact : 5556 (correspond)
Maker : Molex

◆ Power Supply Terminal: CN17

When you input the power supply from the CN15 or CN16 connectors, you can output +5V, -5V, +12V and -12V power from the CN17 terminal. The maximum output current of each power supply is showed bellow.

Specification of Power Supply Terminal

Voltage	+5VDC	+12VDC	-5VDC	-12VDC
Max. Current	2A	2A	2A	2A

However, the maximum supply current is depend on the power supply connected to CN15 or CN16.

CN17
+5V
-5V
+12V   6.35±0.05
-12V
GND   3.63   [mm]

Suitable Ring Tongue : WS0.5-3 (correspond)
Suitable Spade Tongue : WS0.5-3A (correspond)
Applicable Wire AWG#(mm²) : 26 - 22(0.2 - 0.5)
Maker : JST

Screw torque : 0.4N-m(Max.)

◆ System FAN Connector: FAN1 / FAN2

FAN1 and FAN2 are 3-pins header for the system cooling fan power connector. The fan must be a 12V fan. Pin 2 is for +12V power supply.

FAN1/FAN2 (3 2 1)

Pin No.	Function
1	N.C.
2	+12V
3	GND

Suitable Housing : 22-01-1034 (correspond)
Suitable COntact : 08-70-0057 (correspond)
Maker : Molex

◆ ATX Power Control Connector: CN20

CN20 (1 2 3 4 5 6)

Pin No.	Function
1	PME#
2	GND
3	PBTN-IN
4	GND
5	PSOUT
6	+5V SBY

Suitable Housing: XHP-6 (correspond)
Suitable Contact : SXH-001T-P0.6 (correspond)
Maker : JST

◆ ATX Power Button connector: CN21 (PWRBTN)

CN21 (1 2)

Pin No.	Function
1	PBTN
2	GND

Suitable Housing : XHP-2 (correspond)
Suitable Contact : SXH-001T-P0.6 (conrrespond)
Maker : JST

◆ ATX Power ON: JP1

JP1 (1 2 3)

Pin No.	Function
1	PSOUT
2	PBIN
3	GND

2-3 Short : Disable ATX power control and set the ATX Power Supply ON always by push switch (use as AT Power Supply).(Default))
1- 2 Short : Enable ATX Power Control by push switch

The specification, color, and design of a product may be changed without a preliminary announcement.