

PCE-5B03V-00A1E (PCE-7B03V-00A1E) Backplane: 3-slot BP for 1U Chassis, 1 PICMIG 1.3, 2 PCIe

Startup Manual

Packing list

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

- 2 Two Port USB Cable p/n: 1700002204
- PCE-5B03V-00A1E / PCE-7B03V-00A1E User Manual
- M4*6*0.7 Round Screws (5 pcs) p/n: 1939000410
- 2 years quality warranty card p/n: 2190000902

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

Specifications

Standard Functions

- **PICMIG 1.3 slots:**
PCE-7B03V-00A1E supports PCE-7xxx CPU boards
PCE-5B03V-00A1E supports PCE-5xxx CPU boards
- **PCIe slots:**
PCE-7B03V-00A1E supports two PCIe x 8 slots
PCE-5B03V-00A1E supports one PCIe x 16 slot and one PCIe x 4 slot
- **USB (2.0) support:** Four Universal Serial Bus ports to Backplane

Mechanical and Environment

- **Dimensions:** 80.01 x 325 mm
- **Power supply voltage:** +12 V, +5 V, -12 V, -5 V, +5 V SBY, +3.3 V
- **Power requirements:** Refer to the CPU Board, add-on Card & Peripherals
- **Operating temperature:** 0 ~ 60° C

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

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

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

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

This manual is for the PCE-5B03V-00A1E / PCE-7B03V-00A1E series Rev. A1

Part No. 20025B0300
Printed in China

1st Edition
Feb 2008

Connectors and Jumpers

The table below lists the function of each of the jumpers and connectors:

Connectors

Label	Function
SHBA1~SHBD1	PICMG1.3 CPU board slot
PPCIE1	PCE-5B03V-00A1E: PCIe x 16 slot PCE-7B03V-00A1E: PCIe x 8 slot
PPCIE2	PCE-5B03V-00A1E: PCIe x 4 slot PCE-7B03V-00A1E: PCIe x 8 slot
EATXPWR1	ATX2.0 24-pin Power Connector
ATX12V1	ATX 12V 4-pin Power Connector
VOLT1	Alarm board / CMM Power Connector
FAN1~FAN5	FAN Connector
SMBUS1	SMBus Connector for chassis monitor
SMBUS2	SMBus Connector for chassis monitor
JFP1	Power and Reset button Connector
IPMB1	IPMB Connector
USB12	Two USB port pin header
USB34	Two USB port pin header

Jumpers

Label	Function
PSON1	ATX / AT Mode Selection

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 SBY
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

ATX12V1

Pin	Name
1	GND
2	GND
3	12 V
4	12 V

VOLT1

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

FAN1~FAN5

Pin	Name
1	GND
2	12 V
3	FANIO1~FANIO5

SMBUS1~SMBUS2

Pin	Name
1	5 V
2	C-SMBBUS
3	C-SMBDAT
4	GND

IPMB1

Pin	Name
1	IPMB_CLK
2	IPMB_DAT
3	GND

USB12

Pin	Name
1	USBV0
2	USBV0
3	USBD0-
4	USBD1-
5	USBD0+
6	USBD1+
7	GND
8	GND
9	Null
10	GND

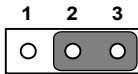
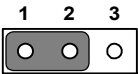
USB34

Pin	Name
1	USBV2
2	USBV2
3	USBD2-
4	USBD3-
5	USBD2+
6	USBD3+
7	GND
8	GND
9	Null
10	GND

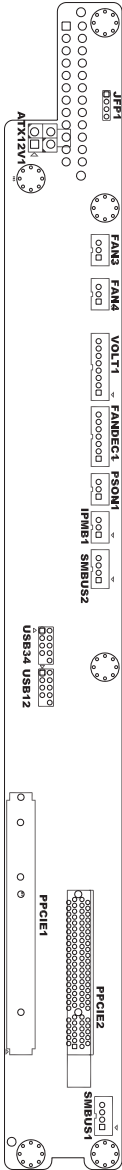
PSON1: ATX / AT Mode Selection

Setting	Function
1-2	AT Mode
2-3*	ATX Mode

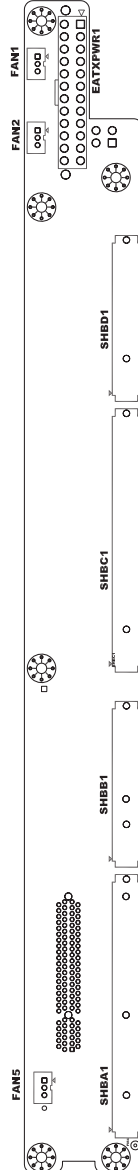
*: Default



Locating connectors and Jumpers

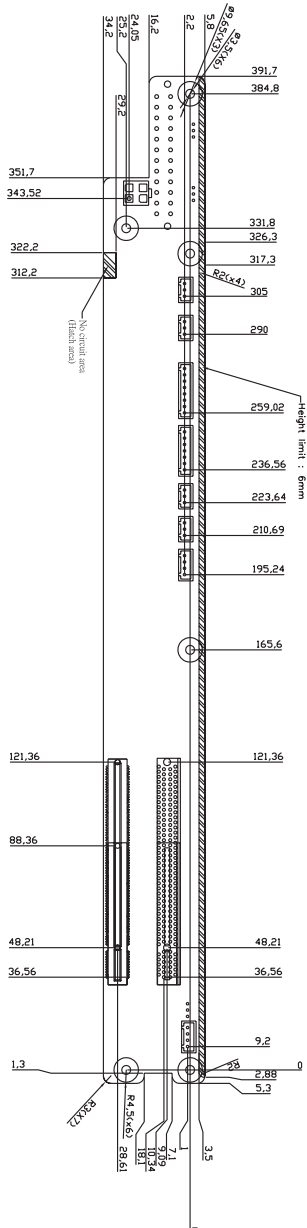


Locating Connectors (component side)

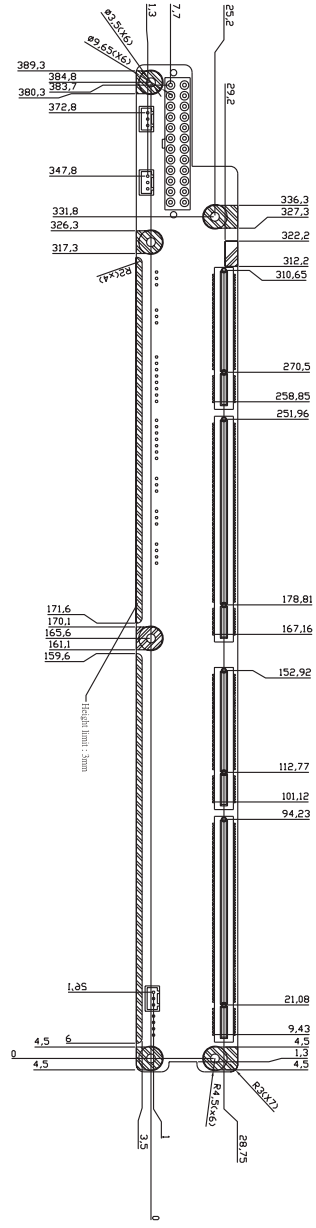


Locating Connectors (solder side)

Board Dimensions

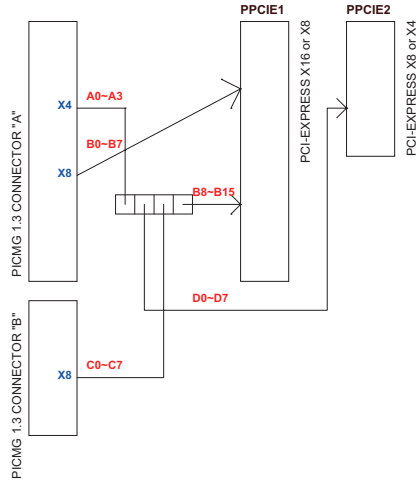
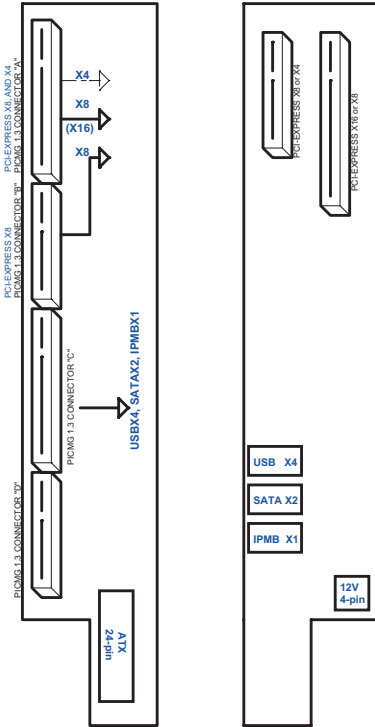


Mechanical Drawing (component side)



Mechanical Drawing (solder side)

Board Diagram



Model Name	PPCIE2	PPCIE1
PCE-7B03V-00	X8	X8
PCE-5B03V-00	X4	X16