

# PCE-5B03V-01A1E (PCE-7B03V-01A1E) Backplane: 3-slot BP for 1U Chassis, 1 PICMIG 1.3, 1 PCIe, 1 32-bit PCI

## 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-01A1E / PCE-7B03V-01A1E User Manual 2nd
- 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-01A1E supports PCE-7xxx CPU boards  
PCE-5B03V-01A1E supports PCE-5xxx CPU boards
- **PCIe slots:**  
PCE-7B03V-01A1E supports one PCIe x 8 slot  
PCE-5B03V-01A1E supports one PCIe x 16 slot
- **32-bit PCI:**  
PCE-7B03V-01A1E supports  
one 32 Bit / 33 MHz PCI slot  
PCE-5B03V-01A1E supports  
one 32 Bit / 33 MHz PCI 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-01A1E / PCE-7B03V-01A1E series Rev. A1

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PCE-5B03V-01A1E (PCE-7B03V-01A1E) Backplane: 3-slot BP for 1U Chassis,  
1PICMIG 1.3, 1 PCIe, 1 32-bit PCI

## 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-01A1E: PCIe x 16 slot PCE-7B03V-01A1E: PCIe x 8 slot
PPCI1	PCE-7B03V-01A1E: 32 Bit / 33 MHz PCI slot PCE-5B03V-01A1E: 32 Bit / 33 MHz PCI 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

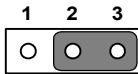
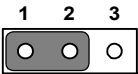
**USB34**

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

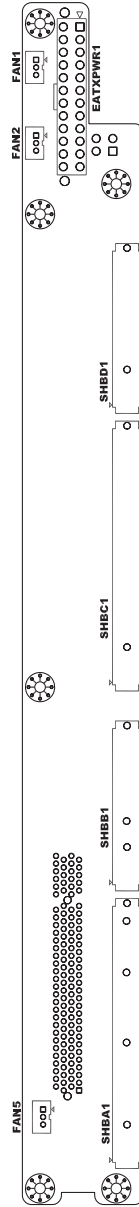
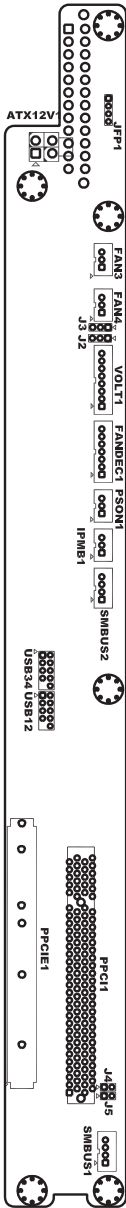
**PSON1: ATX / AT Mode Selection**

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

\*: Default



# Locating connectors and Jumpers

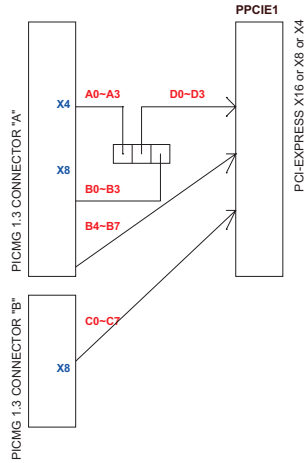
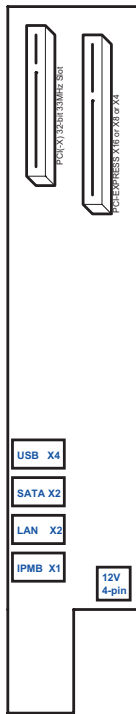
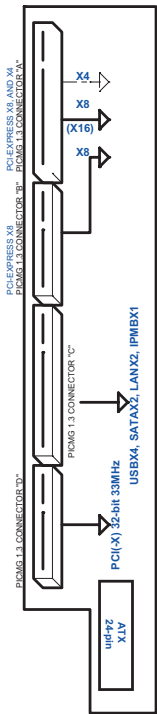


*Locating Connectors (component side)*

*Locating Connectors (solder side)*



# Board Diagram



Model Name	PPCI#1
PCE-7B03V-01	X8
PCE-5B03V-01	X16
PCE-5B03V-01(PCIe x4)	X4

PCI 32-bit

	PCI Slot	PPCI#1
PCI Interrupt Pin Route	IDSEL	AD31
	INTA	INTB
	INTB	INTC
	INTC	INTD
	INTD	INTA