

PCE-5B06-00A1E Backplane: 6-slot BP for 6 slot Chassis, 1 PICMIG 1.3, 4 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-5B06-00A1E User Manual 1st.ED p/n: 200K5B0610
- M4*6*0.7 Round Screws (15 pcs) p/n: 1939000410
- 2 years quality warranty card p/n: 2190000902

If any PCE-5B06-00A1E of these items are missing or damaged, contact your distributor or sales representative immediately.

Specifications

Standard Functions

- **PICMIG 1.3 slots:**
PCE-5B06-00 supports PCE-5xxx CPU boards
- **PCIe slots:**
PCE-5B06-00 supports one PCIe x 16 slot, four PCIe x 1 slot
- **USB (2.0) support:** Four USB 2.0 port pin headers

Mechanical and Environment

- **Dimensions:** 317.5 x 142.17 mm
- **Power supply voltage:** +12 V, +5 V, -12 V, -5 V, +3.3 V +5VSBY, +3.3VSBY
- **Power requirements:** Refer to the CPU Board, add-on Card & Peripherals
- **Operating temperature:** 0 ~ 60° C
- **Weight:** 0.3 kg (weight of board)

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-5B06-00A1E series Rev. A1

Part No. 200K5B0610
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Connectors and Jumpers

The backplane has a number of connectors and jumpers that allow you to configure your system to suit your application. The table below lists the function of each of the jumpers and connectors:

Connectors

Label	Function
SHBA1~SHBD1	PICMG1.3 CPU board slot
PPCIE3	PCIe x 16 slot
PPCIE1,PPCIE2,PPCIE4,PPCIE5	PCIe x 1 slot
EATXPWR1	ATX2.0 24-pin Power Connector
ATX12V1	ATX 12V 4-pin Power Connector
EATX12V1	ATX 12V Auxiliary 8-pin Power Connector
PWR3V1	3.3V Auxiliary 8-pin power connector
VOLT1	Alarm board / CMM Power Connector
FAN1	FAN Connector
FAN2	FAN Connector
FAN3	FAN Connector
FAN4	FAN Connector
FANDEC1	FAN speed detector Connector
SMBUS1	SMBus Connector for chassis monitor
SMBUS2	SMBus Connector for chassis monitor
KBMS1	External Keyboard/Mouse Connector
KBMS2	External Keyboard/Mouse Connector
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

EATX12V1

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

PWR3V1

Pin	Name
1	3.3V
2	3.3V
3	3.3V
4	GND
5	GND
6	GND

VOLT1

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

FAN1 - FAN4

Pin	Name
1	GND
2	12V
3	FANIO1~FANIO4

FANDEC1

Pin	Name
1	FANIO1
2	FANIO2
3	FANIO3
4	FANIO4
5	N/A
6	N/A
7	N/A

SMBUS1 ~ SMBUS2

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

KBMS1 ~ KBMS2	
Pin	Name
1	KBCLK
2	KBDAT
3	MSDAT
4	GND
5	5V
6	MS_CLK

IPMB1	
Pin	Name
1	IPMB_CLK
2	IPMB_DAT
3	GND

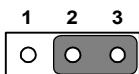
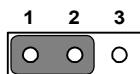
USB12	
Pin	Name
1	USBV0
2	USBV0
3	USBD0-
4	USBD1-
5	USBD0+
6	USBD1+
7	GND
8	GND
9	Null
10	GND

USB34	
Pin	Name
1	USBV2
2	USBV2
3	USBD2-
4	USBD3-
5	USBD2+
6	USBD3+
7	GND
8	GND
9	Null
10	GND

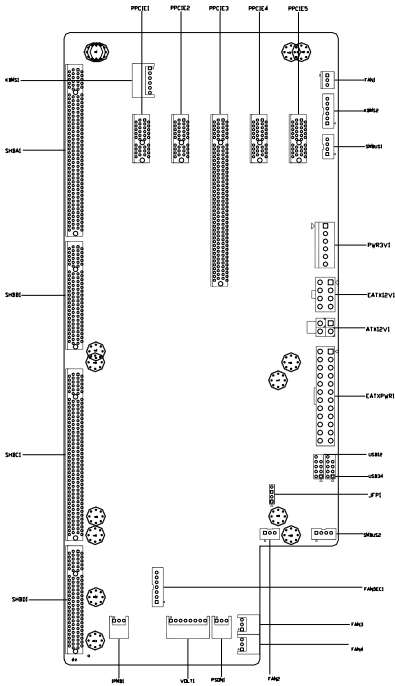
JFP1	
Pin	Name
1	PWRBTN
2	PWRBTN
3	RESET
4	RESET

PSON1: ATX/AT Mode Selection	
Jumper Setting	Function
1-2	AT mode
2-3*	ATX mode

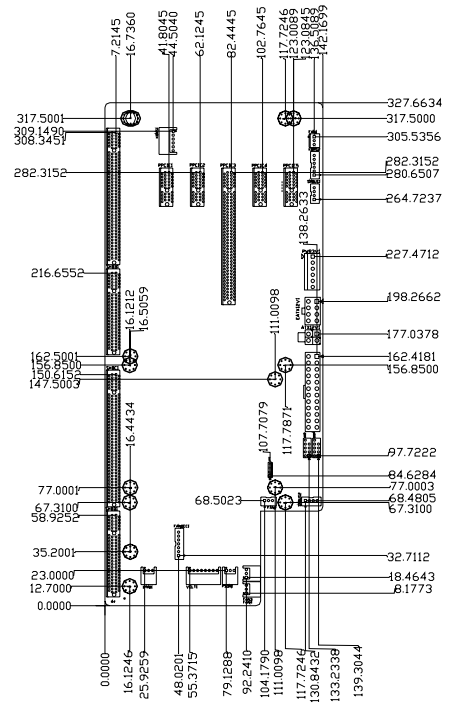
*: Default



Locating connectors and Jumpers



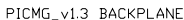
Board Dimensions



Locating Connectors and Jumpers

Mechanical Drawing

Board Diagram



Board Diagram