

## PCE-5B06-03A1E Backplane: 6-slot BP for 6 slot Chassis, 1 PICMIG 1.3, 1 x PClex16, 1 x PClex4, 3 x 32-bit PCI

### Startup Manual

#### Packing List

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

1. PCE-5B06-03A1E Startup manual
2. M4\*6\*0.7 Round Screws (5 pcs) p/n: 1939000410
3. 2 years quality warranty card p/n: 2190000902

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

#### Specifications

##### Standard PC Functions

- **PICMIG 1.3 slots:** PCE-5B06-03 supports PCE-5XXX/7XXX CPU boards
- **PCIe slots:** PCE-5B06-03 supports one PCIe x 16 slot and one PCIe x4
- **32-bit PCI:** Three 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
- **Weight:** 0.211 kg (weight of board)

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<http://www.advantech.com>

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

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

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This manual is for PCE-5B06-03A1E series Rev. A1.

Part No. 20065B0600

Print in China

1st Edition

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#### Jumpers and Connectors

The board has a number of 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.

##### Jumpers and connectors

Jumpers	
Label	Function
PS0N1	ATX / AT Mode Selection

Connectors	
Label	Function
SHBA1~SHBD1	PICMG1.3 CPU board slot
PPCIEX4_1	PCIe X4 slot
PPCIEX16_1	PCIe x 16 slot
PPCI1~PPCI3	32 Bit / 33 MHz PCI Bus slot
EATXPWR1	ATX2.0 24-pin Power Connector
EATX12V1	ATX 12 V Auxiliary 8-pin Power Connector
ATX12V1	ATX 12 V 4-pin Power Connector
VOLT1	Alarm board / CMM Power Connector
PWR3V1	ATX 3V 6-pin Power Connector
FAN1	FAN Connector
FAN2	FAN Connector
FAN3	FAN Connector
FAN4	FAN Connector
FAN5	FAN connector
FANDEC1	FAN speed detector 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 headers
USB34	Two USB port pin headers

## Jumpers and Connectors

### Connector Pin Definitions

EATXPWER1	
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	3.3 V
2	3.3 V
3	3.3 V
4	GND
5	GND
6	GND

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

## Jumpers and Connectors

FANDEC1	
Pin	Name
1	FANIO1
2	FANIO2
3	FANIO3
4	FANIO4

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

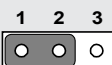
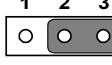
USB12	
Pin	Name
1	USBV0
2	USBV0
3	USBD0-
4	USBD1-
5	USBD0+
6	USBD1+
7	GND
8	GND
9	Null
10	GND

USB34	
Pin	Name
1	USBV2
2	USBV2
3	USBD2-
4	USBD3-

5	USBD2+
6	USBD3+
7	GND
8	GND
9	Null
10	GND

JFP1	
Pin	Name
1	PWRBTN
2	GND
3	RESET
4	GND

## Jumper Setting

PSON1: ATX / AT Mode Selection	
Jumper Setting	Function
1-2 closed pins 	AT Mode
2-3 closed pins 	ATX Mode (Default)

## PCI Routing Tables

PCI 32-bit					
PCI Interrupt Pin Route	PCI Slot	PPCI1	PPCI2	PPCI3	PPCI4
	IDSEL	AD 31	AD 30	AD 29	AD 28
	INT A	INT B	INT C	INT D	INT A
	INT B	INT C	INT D	INT A	INT B
	INT C	INT D	INT A	INT B	INT C
	INT D	INT A	INT B	INT C	INT D

Board Layout

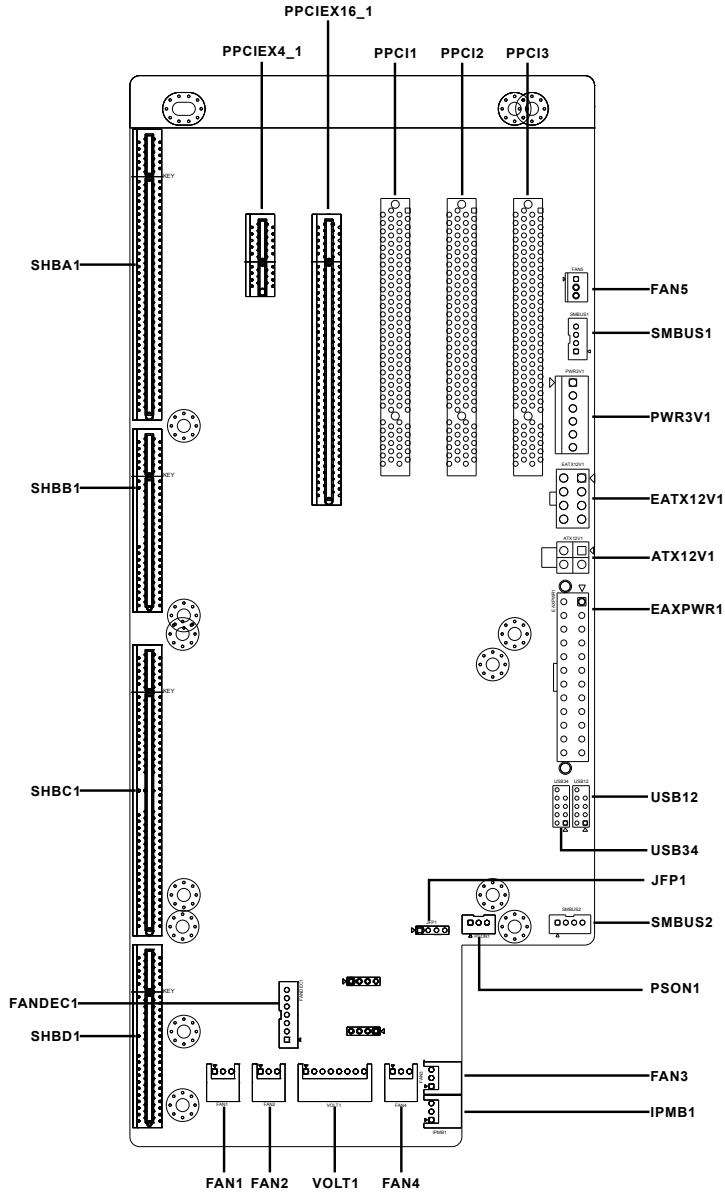


Figure 1: Board Layout

Board Diagram

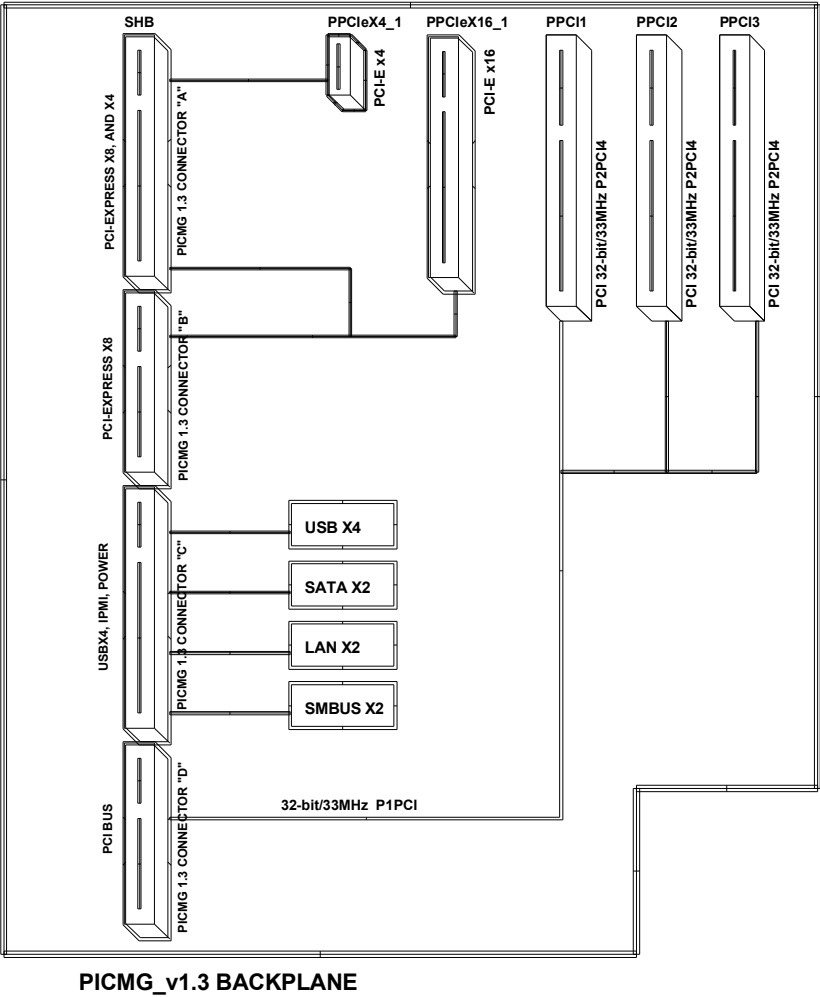


Figure 2: Board Diagram

# Board Dimensions

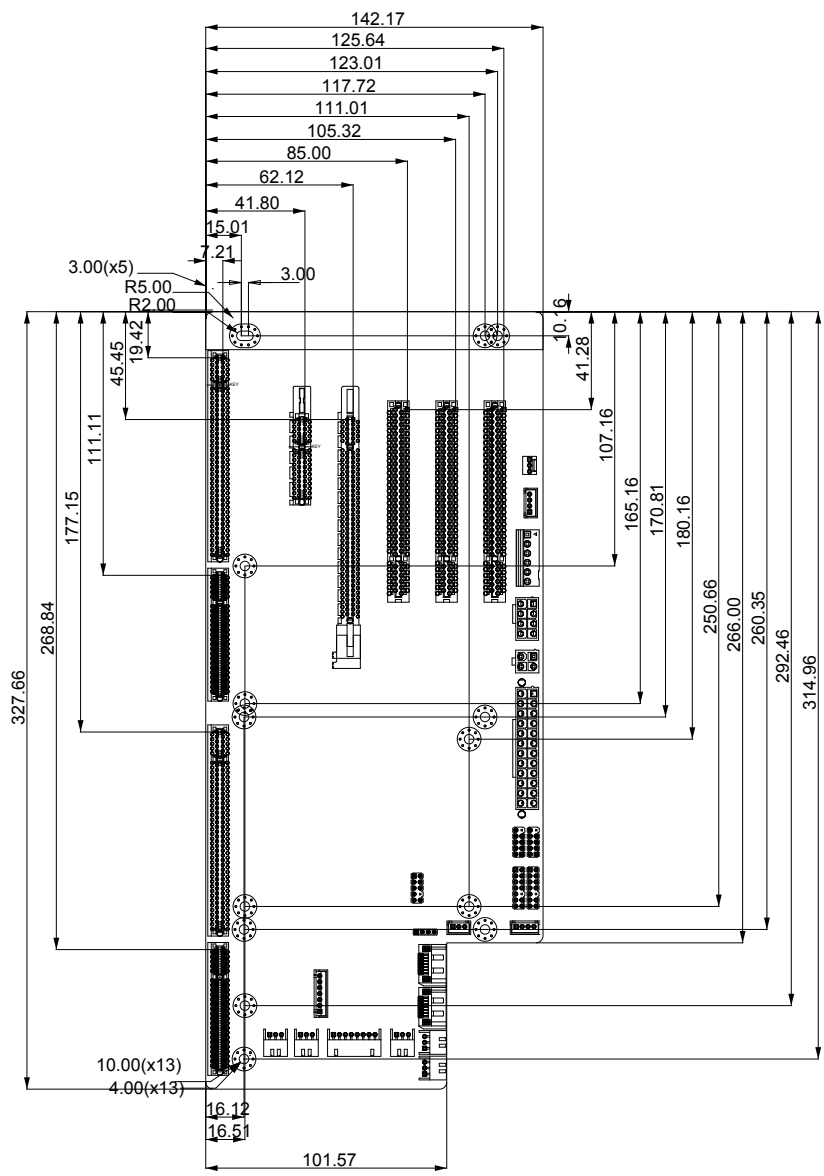


Figure3: Board Dimensions (mm)