

PCE-7B10-04A1E Backplane: 10-slot BP for 14-slot Chassis, 1 PICMIG 1.3, 5 PCIe, 4 32-bit/33-MHz 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-7B10-04A1E Start-up Manual
- M4*6*0.7 Round Screws (20 pcs) P/N: 1939000410
- 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

- **PICMG 1.3 Slot:**
PCE-7B10-04A1E supports PCE-7XXX CPU Cards
- **PCIe Slots:**
5 PCI-E x 4 Slots
- **32-bit PCI Slots:**
4 32-Bit / 33-MHz PCI Slots
- **USB (2.0) support:** Four Universal Serial Bus ports to Backplane

Mechanical and Environment

- **Dimensions:** 327.66 x 315.45 mm
- **Power supply voltage:** +12 V, +5 V, -12 V, -5 V, +5 V SBY, +3.3 V
- **Power requirements:** Depends on the CPU Board, add-on Card & Peripherals
- **Operating temperature:** 0 ~ 60° C

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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 the PCE-7B10-04A1E series Rev. A1

Part No. 200K7B1000
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Connectors and Jumpers

This table shows the function of each jumper and connector:

Connectors	
Label	Function
SHBA1-SHBD1	PICMG1.3 CPU board slot
PPCIE1~5	PCIe x 14 slots
PPCI1~PPCI4	32 Bit / 33 MHz PCI Bus slot
EATXPWR1	ATX2.0 24-pin Power Connector
EATX12V1	ATX 12V Auxiliary 8-pin Power Connector
ATX12V1	ATX 12V 4-pin Power Connector
PWR3V1	3.3V Auxiliary Power Connector
PWR3V2	3.3V Auxiliary Power Connector
VOLT1	Alarm board / CMM Power Connector
FAN1~6	FAN Connector (Horizontal Type)
FAN7	FAN Connector (Vertical Type)
FANDEC1	FAN speed detector Connector
SMBUS1-3	System Management Bus
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 & PWR3V2	
Pin	Name
1	3.3V
2	3.3V
3	3.3V
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~FAN7	
Pin	Name
1	GND
2	12 V
3	FANIO1~FANIO7

FANDEC1	
Pin	Name
1	FANIO1
2	FANIO2
3	FANIO3
4	FANIO4
5	FANIO5
6	FANIO6
7	FANIO7

SMBUS1~SMBUS3	
Pin	Name
1	5 V
2	C-SMBBUS
3	C-SMBDAT
4	GND

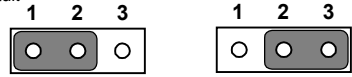
IPMB1	
Pin	Name
1	IPMB_CLK
2	IPMB_DAT
3	GND

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

PS0N1: ATX / AT Mode Selection	
Setting	Function
1-2	AT Mode
2-3*	ATX Mode

*: Default



JFP1	
Pin	Name
1	VCC
2	PWRBTN
3	RESET#
4	GND

Board Layout

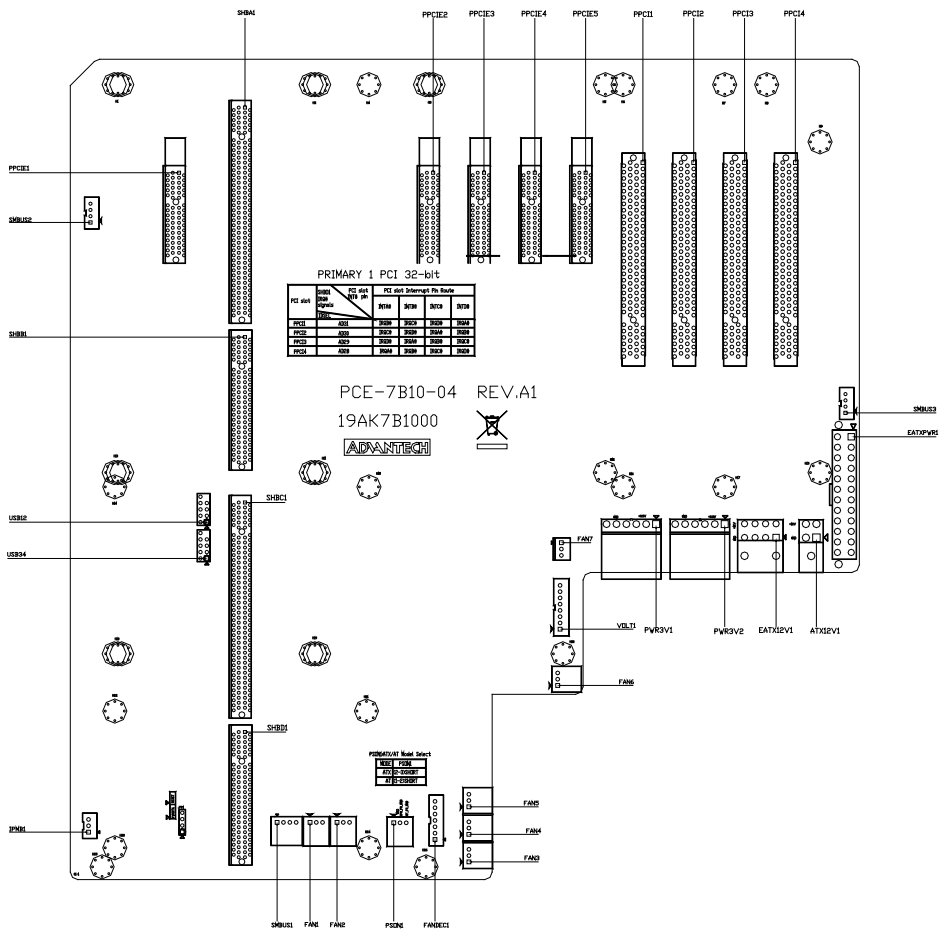


Figure 1: PCE-7B10-04A1E Board Layout

Board Dimensions

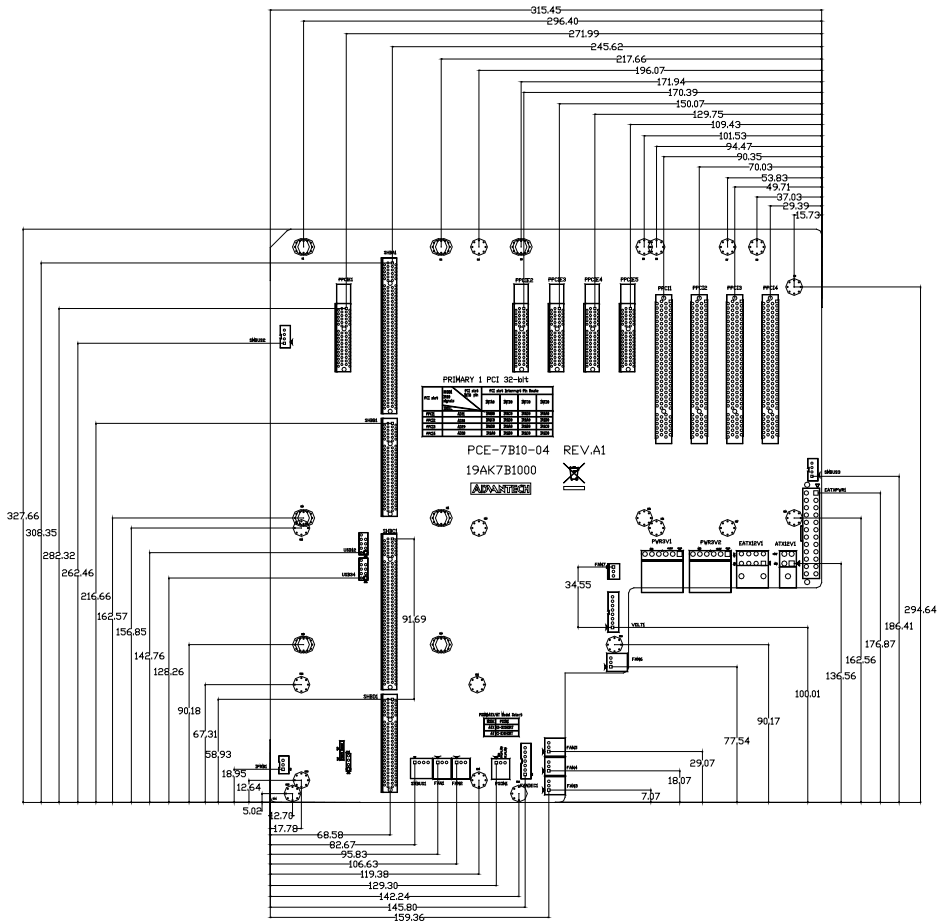


Figure 2: PCE-7B10-04A1E Board Dimension

Board Diagram

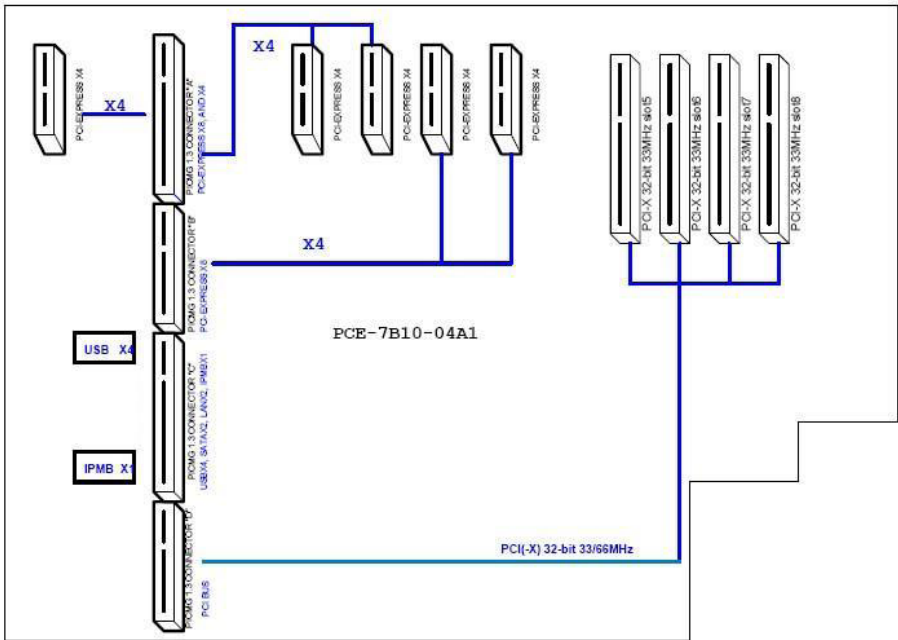


Figure 3: Board Diagram

PCI Routing Table

PCI 32-bit

PCI Interrupt Pin Route	PCI Slot	PPCI1	PPCI2	PPCI3	PPCI4
	IDSEL	AD31	AD30	AD29	AD28
	INTA	INTB	INTC	INTD	INTA
	INTB	INTC	INTD	INTA	INTB
	INTC	INTD	INTA	INTB	INTC
	INTD	INTA	INTB	INTC	INTD