

PCE-3B06-00 Backplane: 6 Slot PICMG1.3 Half-size BP, 1 x PCIe x16, 4 x PCIe x1 Startup Manual

Packing List

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

- PCE-3B06-00 user manual 2nd ed. p/n: 20023B0611
- 2-year quality warranty card p/n: 2190000902

If any PCE-3B06-00 of these items are missing or damaged, please contact your distributor or sales representative immediately.

Specifications

Standard Functions

- **PICMG 1.3 slots:** PCE-3B06-00 supports PICMG1.3 half-sized SHB
- **PCIe slots:** PCE-3B06-00 supports one PCIe x16 slot, four PCIe x1 slot

Mechanical and Environmental

- **Dimensions:** 176 X 142.17 mm
- **Power supply voltage:** +12 V, +5 V, -12 V, +3.3 V +5VSBY
- **Power requirements:** Refer to the CPU Board, add-on card & peripherals
- **Operating temperature:** 0 ~ 60 °C
- **Weight:** 0.2 kg (weight of board)

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This manual is for the PCE-3B06-00 series Rev. A1.

Part No. 20023B0611
Printed in China

2nd Edition,
July 2013

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~SHBB1	PICMG1.3 CPU board slot
PCIEX16_1	PCIe x16 slot
PCIEX1_1, PCIEX1_2, PCIEX1_3, PCIEX1_4	PCIe x1 slot
EATXPWR1	ATX2.0 24-pin power connector
ATX12V1	ATX 12V 4-pin power connector
VOLT1	Alarm board / CMM power connector
FAN1	FAN connector
FAN2	FAN connector
FAN3	FAN connector
SMBUS1	SMBus connector for chassis monitor
JFP1	Power and reset button connector

Jumpers	
Label	Function
PSON1	ATX / AT mode selection
JFAN_CTRL1	System smart fan control

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 - FAN3	
Pin	Name
1	GND
2	12 v
3	FANIO1~FANIO3

SMBUS1	
Pin	Name
1	5 V
2	C-SMBCLK
3	C-SMBDAT
4	GND

JFP1	
Pin	Name
1	PWRBTN
2	GND
3	RESET
4	GND

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



JFAN_CTRL1: System Smart Fan Control	
Jumper Setting	Function
1-2 (Default)	Smart fan
2-3	Full speed fan



Locating Connectors and Jumpers

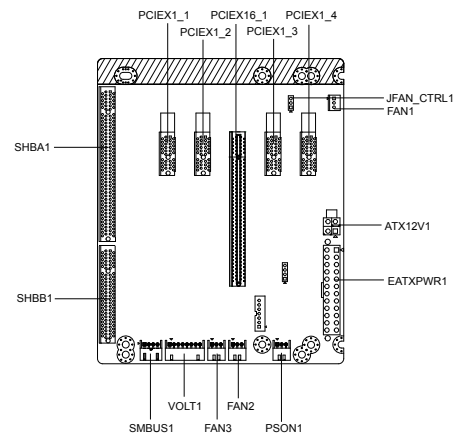


Figure1: Locating Connectors and Jumpers

Board Dimensions

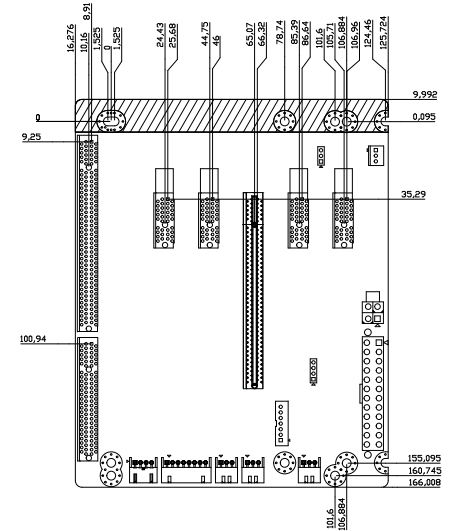


Figure2: Mechanical Drawing

Board Diagram

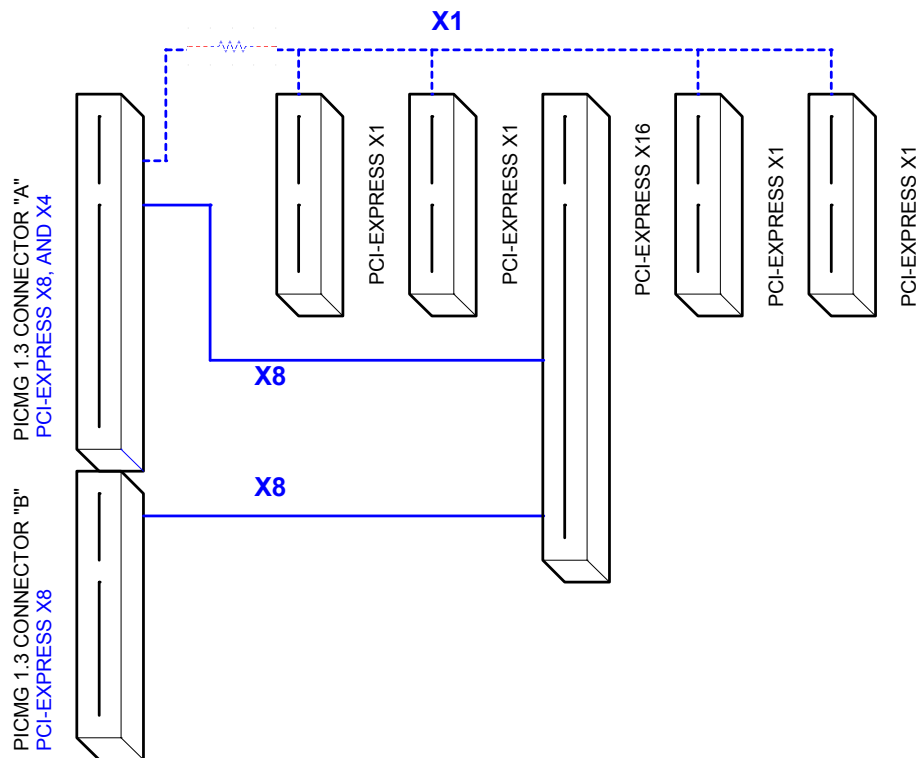


Figure3: PCE-3B06-00 Board Diagram

PCE-3B06-02 Backplane: 6 Slot PICMG 1.3 Halfsize BP for 6-slot Wallmount Chassis, 1 x PCIe x16, 2 x PCIe x1, 2 x 32-bit/33 MHz PCI

Startup Manual

Packing List

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

- PCE-3B06-02 startup manual p/n: 20063B0600
- 2-year 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 Functions

- **PICMG 1.3 slots:**
 - PCE-3B06-02 supports PICMG 1.3 half-size mainstream SHB (PCE-3XXX series) and server grade SHB (PCE-4XXX series)
- **PCIe slots:**
 - PCE-3B06-02 supports one PCIe x16 slot, two PCIe x1 slot
- **PCI slots:**
 - PCE-3B06-02 supports two PCI slots (32 bit/33 MHz)

Mechanical and Environment

- **Dimensions:** 176 x 142.17 mm
- **Power supply voltage:** +12 V, +5 V, -12 V, +3.3 V +5 VSB
- **Power requirements:** Refer to the CPU Board, add-on card & peripherals
- **Operating temperature:** 0 ~ 60 °C
- **Weight:** 0.172 kg (weight of board)

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

This manual is for the PCE-3B06-02 series.

Part No. 20063B0600

1st Edition

Printed in China

December 2013

Connectors

Connectors	
Label	Function
SHBA1 ~ SHBB1	PICMG1.3 CPU board slot
PPCIE1	PCle x1 slot
PPCIE2	PCle x16 slot
PPCIE3	PCle x1 slot
PPCI1~PPCI2	PCI slot
EATXPWR1	ATX2.0 24-pin power connector
PWR1	Big 4 pin power connector
VOLT1	Alarm board power connector
ATX12V1	ATX 12V Auxiliary 4-pin power connector
FAN1~FAN3	FAN connector
SMBUS1	SMBUS connector for chassis monitor
JFP1	Power and Reset button connector

Jumpers

Jumpers	
Label	Function
PSON1	ATX/AT Mode Selection
JFAN_CTRL1	System Smart Fan Control

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 SB
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

Jumpers

ATX12V1

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

PWR1

Pin	Name
1	12 V
2	GND
3	GND
4	5 V

VOLT1

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

FAN1 ~ FAN3

Pin	Name
1	GND
2	12 V
3	FANIO1~FANIO3

SMBUS1

Pin	Name
1	5 V
2	SMBCLK
3	SMBDAT
4	GND

Jumpers

JFP1

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

PSON1: ATX/AT Mode Selection

Jumper Setting	Function
1-2	AT mode
2-3 (Default)	ATX mode



JFAN_CTRL1: System Smart Fan Control

Jumper Setting	Function
1-2 (Default)	Smart fan
2-3	Full speed fan



Locating Connectors and Jumpers

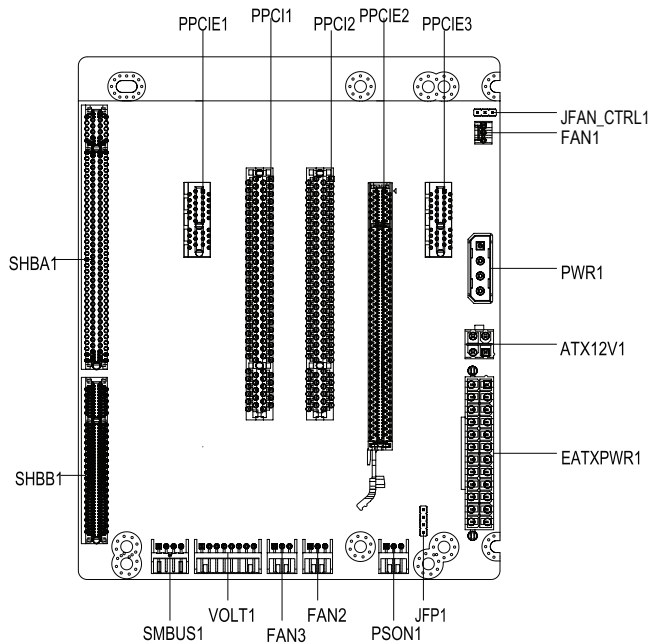


Figure 1: Board layout

Board Dimensions

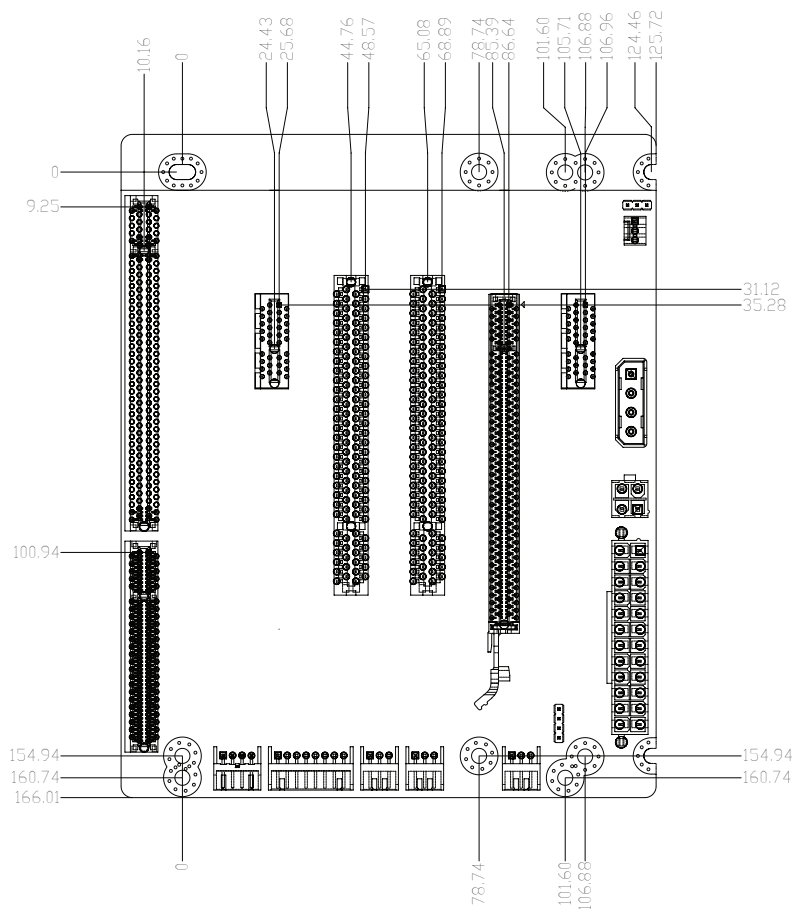


Figure 2: Board dimensions

Board Diagram

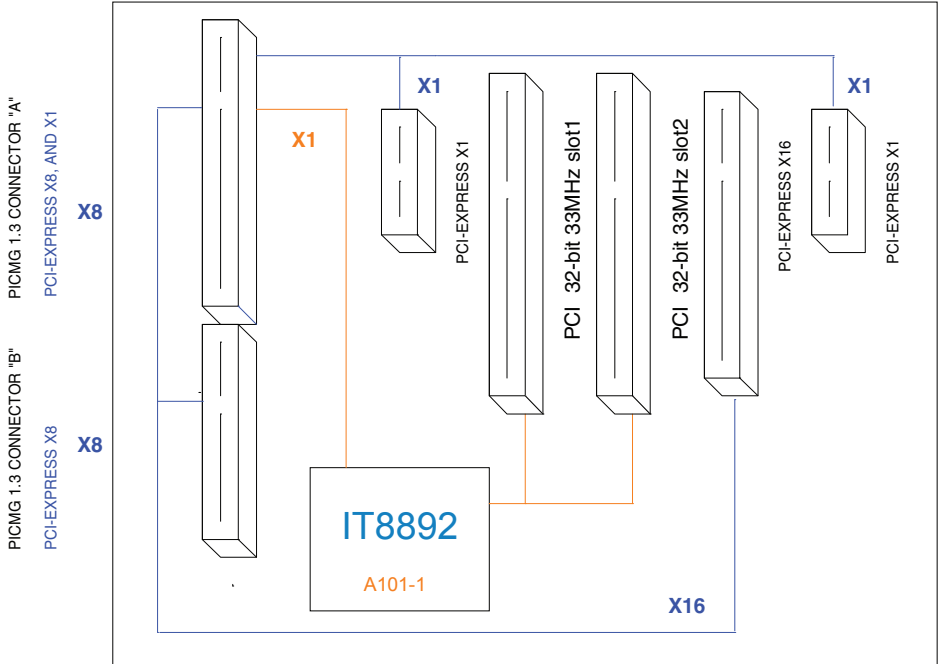


Figure 3: Board diagram

PCE-3B06-03 Backplane: 6 Slot PICMG 1.3 Half-size BP, 1 x PCIe x16, 1 x PCIe x1, 3 x PCI

Startup Manual

Packing List

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

- PCE-3B06-03A1E User Manual 2nd Ed. p/n: 20023B0621
- 2-year 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 functions

- **PICMG 1.3 slots:**
PCE-3B06-03 supports PICMG1.3 half-sized SHB
- **PCIe slots:**
PCE-3B06-03 Supports one PCIe x16 slot, one PCIe x1
- **PCI slots:**
PCE-3B06-03 Supports 3 PCI Slots

Mechanical and Environment

- **Dimensions:** 176 x 142.17 mm
- **Power supply voltage:** +12 V, +5 V, -12 V, +3.3 V +5 VSBY
- **Power requirements:** Refer to the CPU Board, add-on card & peripherals
- **Operating temperature:** 0 ~ 60 °C
- **Weight:** 0.2 kg (weight of board)

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This manual is for the PCE-3B06-03A1E series.

Part No. 20023B0621

2nd Edition

Printed in China

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Connectors

Connectors	
Label	Function
SHBA1 ~ SHBB1	PICMG1.3 CPU board slot
PCIEX16_1	PCIe x16 slot
PCIEX1_1	PCIe x1 slot
PPCI1, PPCI2, PPCI3	PCI 32-bit / 33-Mhz slot
EATXPWR1	ATX2.0 24-pin power connector
PWR1	Big 4 pin power connector
VOLT1	Alarm board/CMM power connector
FAN1	FAN connector
FAN2	FAN connector
FAN3	FAN connector
SMBUS1	SMBus connector for chassis monitor
JFP1	Power and Reset button connector

Jumpers

Jumpers	
Label	Function
PSON1	ATX/AT Mode Selection
JANFAN_CTRL1	System Smart Fan Control
JM66EN1	PCI Bus Frequency 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 SB
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

Jumpers

ATX12V1

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

PWR1

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

VOLT1

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

FAN1 ~ FAN3

Pin	Name
1	GND
2	12 V
3	FANIO1~FANIO3

SMBUS1

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

Jumpers

JFP1

Pin	Name
1	PWRBTN
2	GND
3	RESET
4	GND

PSON1: ATX/AT Mode Selection

Jumper Setting	Function
1-2	AT mode
2-3 (Default)	ATX mode



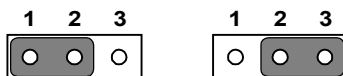
JFAN_CTRL1: System Smart Fan Control

Jumper Setting	Function
1-2 (Default)	Smart fan
2-3	Full speed fan



JM66EN1: PCI Bus Frequency Selection

Jumper Setting	Function
1-2	66 MHz
2-3 (Default)	33 MHz



Locating Connectors and Jumpers

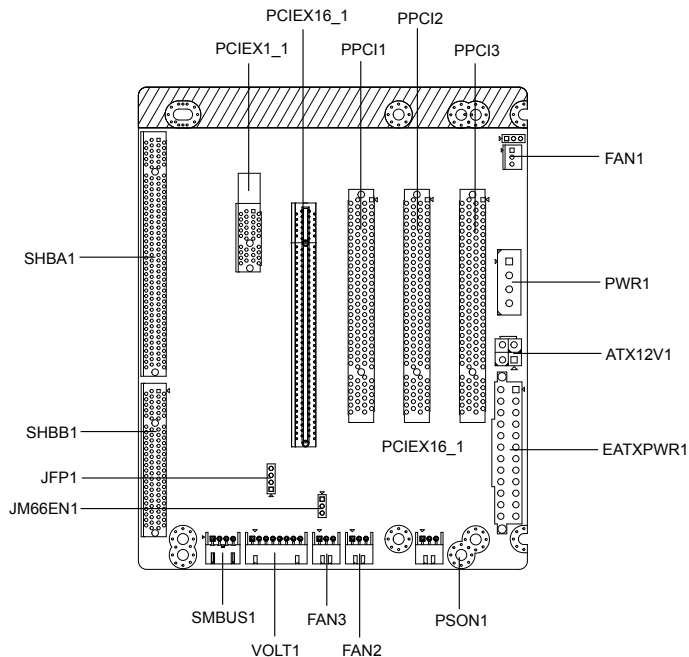


Figure 1: Locating connectors and jumpers

Note: PCIe1 Conditional use small size PCIe x1 card to avoid mechanical interfere with CPU Board.

Board Dimensions

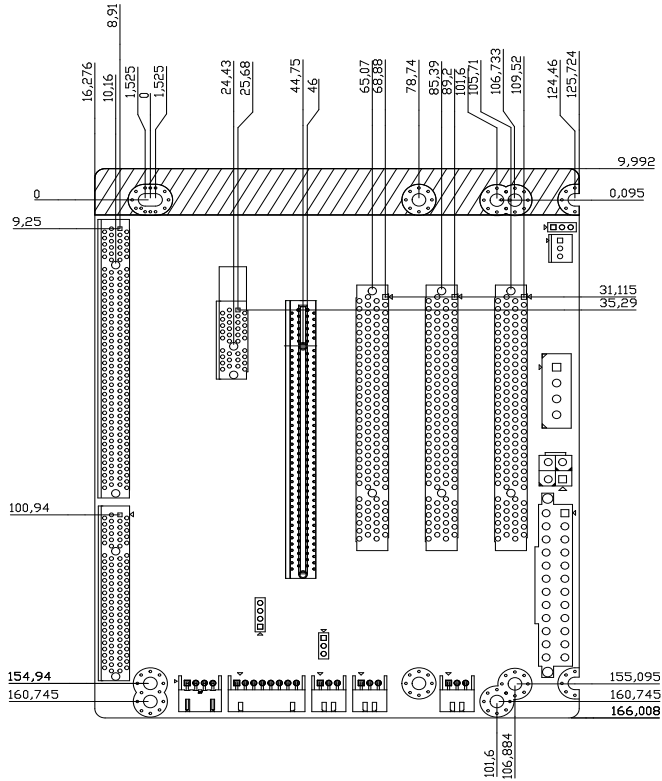


Figure2: Board dimensions

Board Diagram

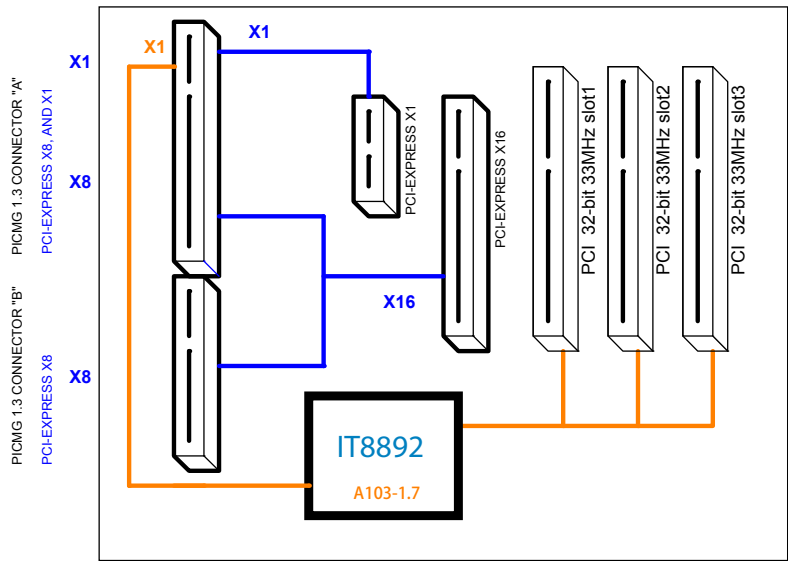


Figure 3: Board diagram