ADVANTECH

PCI-7103P1V-01 Backplane: 3 Slot Half-size BP, 1 x PCIe x4, 1 x PCI
Startup Manual

Packing List

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

- PCI-7103P1V-01 User Manual 1st ed.   p/n: 2006710300 20023B0311
- 2-year quality warranty card   p/n: 2190000902

If any of these PCI-7103P1V-01 items are missing or damaged, please contact your distributor or sales representative immediately.

Specifications

Standard Functions

- PCI-7103P1V-01 is compatible with PCI-7031DF-S6A1E
- **PCIe slots:** PCI-7103P1V-01 supports one PCIe x4, one PCI

Mechanical and Environmental

- **Dimensions:** 252 x 41 mm
- **Power supply voltage:** +12 V, +5 V, -12 V, +3.3 V +5VSB
- **Power requirements:** Refer to the CPU board, add-on card & peripherals
- **Operating temperature:** 0 ~ 60 °C
- **Weight:** 0.098 kg (weight of board)

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**
SBC1, SBC2	CPU board slot
PPCIE_1	PCIe x4 slot (with PCIex8 mechanical design)
PCI1	PCI slot
EATXPWR1	ATX2.0 24-pin power connector
ATX12V1	ATX 12V 4-pin power connector
VOLT1	Alarm board / CMM power connector
FAN1	3-pin FAN connector
FAN2	3-pin FAN connector
FAN3	3-pin FAN connector
SMBUS1	SMBus connector for chassis monitor
CN1	Front panel pin header

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

Connectors and Jumpers

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

CN1	
Pin	Name
1	5V
2	SIO FAN FAIL
3	5V
4	SIO THEM FAIL
5	5V
6	SIO HDD FAIL
7	5V
8	GND
9	System reset
10	GND
11	Power button
12	GND

PSON1: ATX/AT Mode Selection	
Jumper Setting	Function
1-2	AT mode
2-3	ATX mode
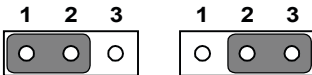
JFAN_CTRL1: System Smart Fan Control	
Jumper Setting	Function
1-2 (Default)	Smart fan
2-3	Full speed fan

PCI Routing Table

PCI 32-bit		PCI slot	PPCI1
		IDSEL	AD31
	PCI Interrupt Pin Route	INTA	INTB
		INTB	INTC
		INTC	INTD
		INTD	INTA
		CLOCK	CLKA
		REQ	REQA#
		GNT	GNTA#

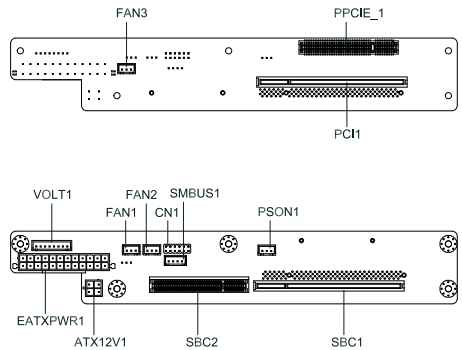*Figure1: PCI Routing Table*

Locating Connectors and Jumpers

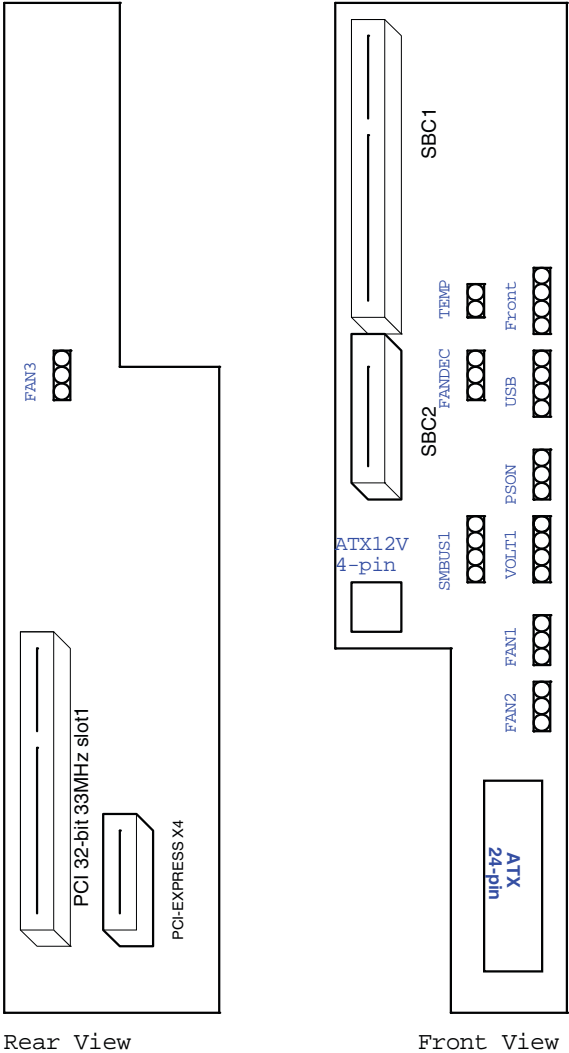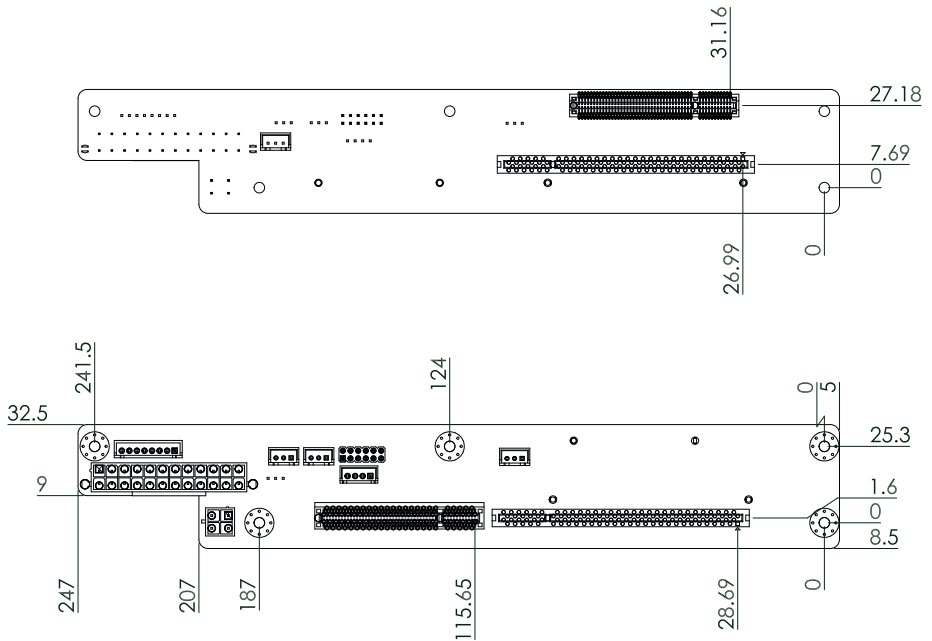*Figure2: Locating Connectors and Jumpers*

Figure3: PCI-7103P1V-01 Board Diagram

Board Dimensions

Figure3: PCI-7103P1V-01 Board Dimensions