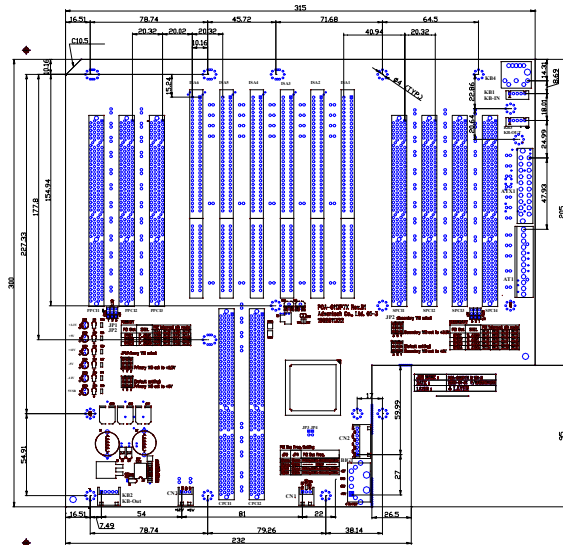# PCA-6113P7X
Description: 13 slot backplane 1 CPU/ 7 PCI/ 5 ISA Rev. B01-3
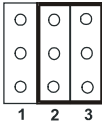

1. Connectors
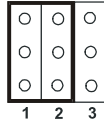
Connector	Description
ISA1~3, 6	16 Bit ISA Bus connector
PPCI1 ~ PPCI3	64 Bit PCI Bus connector (Primary)
SPCI1 ~ SPCI4	64 Bit PCI Bus connector (Secondary)
ISA4 ~ ISA5	PICMG connector
KB1	KB-In, from CPU card K/B connector
KB2~KB3	KB-Out, 5 pin external K/B connector
KB4	KB-Out, 5 pin AT external K/B connector
BIG1	Big 4 Pin Power connector
AT1	AT Power connector
ATX1	ATX Power connector
CN1	PS-ON Function, to CPU card for ATX power signal, 3 pin connector
CN2	8 pin Alarm Board Power connector
CN3	3 pin +5V and +12V Power connector
JP1	Primary VIO Select (select 3.3V/5V)
JP2	Secondary VIO Select (select 3.3V/5V)
JP3	Primary PCI Bus frequency
JP4	Secondary PCI Bus frequency

CN1

PIN	Name
1	PS-ON
2	GND
3	+5V

CN2

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

CN3

PIN	Name
1	+12V
2	GND
3	+5V

AT1

PIN	Name
1	NC
2	+5V
3	+12V
4	-12V
5	GND
6	GND
7	GND
8	GND
9	-5V
10	+5V
11	+5v
12	+5V

BIG1

PIN	Name
1	+12V
2	GND
3	GND
4	+5V

KB-1/KB-2/KB-3

PIN	Name
1	KBCLK
2	KBDATA
3	NC
4	KBGND
5	KBVCC

ATX1

PIN	Name
1	+3.3V
2	+3.3V
3	GND
4	+5V
5	GND
6	+5V
7	GND
8	NC
9	5VSB
10	+12V
11	+3.3V
12	-12V
13	GND
14	PS-ON
15	GND
16	GND
17	GND
18	-5V
19	+5V
20	+5V

2. Jumper Setting

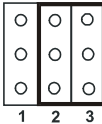• JP1: Primary VIO Select

Primary VIO set to +5V   Primary VIO set to +3.3V
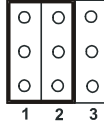
• JP2: Secondary Select

Secondary VIO set to +3.3V   Secondary VIO set to +5V

• JP3/JP4

PCI Bus Frequency Setting		
JP3	JP4	PCI Bus Frequency
Close	Close	Primary: 33MHz, Secondary: 33MHz
Close	Open	ERROR
Open	Close	Primary: 66MHz, Secondary: 33MHz
Open	Open	Primary: 66MHz, Secondary: 66MHz

3. PCI Routing table

Primary PCI Group					
PCI Slot	IDSEL	PCI interrupt Pin Route			
		INTA	INTB	INTC	INTD
PPCI1	P_AD31	INTB	INTC	INTD	INTA
PPCI2	P_AD30	INTC	INTD	INTA	INTB
PPCI3	P_AD29	INTD	INTA	INTB	INTC

Secondary PCI Group					
PCI Slot	IDSEL	PCI interrupt Pin Route			
		INTA	INTB	INTC	INTD
SPCI1	P_AD20	INTA	INTB	INTC	INTD
SPCI2	P_AD21	INTB	INTC	INTD	INTA
SPCI3	P_AD22	INTC	INTD	INTA	INTB
SPCI4	P_AD23	INTD	INTA	INTB	INTC

4. 64bit/66MHz add-on card

A. The PCA-6113P7X backplane provides high performance PCI slots running at 64 bit and 66MHz, and can also operate under various speeds of 32bit/33MHz, 32bit/66MHz, 64bit/33MHz.

B. Once a 33 MHz card is installed in the bus group, the PCI bus speed will decelerate to 33 MHz. Depending on the speed requirement, it is highly recommended to allocate different add-on cards to different PCI groups. In order to obtain the best performance, please use 66MHz add-on cards in primary PCI group, and 33MHz add-on cards in secondary PCI group .

C. Shall any incompatibility occur when using add-on cards running at 66MHz PCI bus in PCA-6113P7X backplane, please adjust the PCI bus frequency to 33MHz. The PCI bus frequency can be adjusted with JP3 and JP4. Correct jumper setting is available in this manual.

5. Detachable board
Depending on the chassis usage, users may need to remove the detachable board along the dotted lines.