ADVANTECH

PCA-6108P6 Backplane: 8-slot BP for 8-slot Chassis, 1 ISA, 5 PCI, 1 PICMG, 1 PICMG/PCI
Startup Manual

Packing List

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

1. PCA-6108P6 startup manual   2002610824
2. 3-pin ATX connector cable   1700030500
3. Screw M4*6L (15 pcs)   1939000410
4. 2-year quality warranty card   2190000902

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

Note: Acrobat Reader is required to view any PDF file.Acrobat Reader can be downloaded at: www.adobe.com/Products/acrobat/readstep2.html (Acrobat is a trademark of Adobe)

Specifications

Standard Functions

- **PICMG 1.0 slots:** PCA-6108P6 supports PICMG 1.0 CPU boards
- **ISA slots:** One ISA slot
- **32-bit PCI:** Five 32 bit/33 MHz PCI slots
- **PICMG/PCI slot:** One PICMG/PCI slot

Mechanical and Environment

- **Dimension:** 260mm x 200mm
- **Power supply voltage:** +12 V, +5 V, -12 V, -5 V, +3.3 V, +5 VSB
- **Power requirements:** Refer to the CPU board, add-on card, and peripherals
- **Operating temperature:** 0 ~ 60° C
- **Weight:** 0.398 kg

For more information on this and other Advantech products, please visit our website at:

http://www.advantech.com

http://www.advantech.com/eplatform

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

http://support.advantech.com

This manual is for the PCA-6108P6 Series.
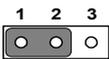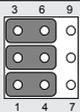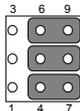
Part No. 2002610824   5th Edition
Printed in China   July 2014

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

Connectors	
Label	Function
PICMG1~PICMG2	PICMG1.0 CPU board slot
ISA3	ISA slot
PCI1~PCI3	32 bit / 33MHz PCI slot
SPCI1~SPCI3	32 bit / 33MHz PCI slot
VAT1	AT power connector
VATX1	ATX power connector
VBIG1	BIG 4-pin connector
VKB1~VKB3	KB-In or KB-Out connector
HCN1	PS-On, to CPU card for ATX power signal
HCN3	+5 V and +12 V fan connector

Jumpers	
Label	Function
HCN1	**ATX/AT Mode Selection**
	AT Mode
Remove default jumper and connect 3-pin ATX connector cable	ATX Mode
J3	**PCI Bridge Voltage Selection**
	Setting 5V voltage to PCI slot (default)
	Setting 3.3V voltage to PCI slot

Jumpers and Connectors

VATX1	
Pin	Name
1	3.3 V
2	3.3V
3	GND
4	5V
5	GND
6	5V
7	GND
8	Power OK
9	5VSB
10	12V
11	12V
12	3.3V
13	3.3V
14	-12V
15	GND
16	PSON
17	GND
18	GND
19	GND
20	N/C
21	5V
22	5V
23	5V
24	GND

VAT1	
Pin	Name
1	N/C
2	5V
3	12V
4	-12V
5	GND
6	GND
7	GND
8	GND
9	-5V
10	5V
11	5V
12	5V

HCN1	
Pin	Name
1	PSON
2	GND
3	5VSB

HCN3	
Pin	Name
1	12V
2	GND
3	5V

VKB1 ~ VKB3	
Pin	Name
1	KBCLK
2	KBDAT
3	MSDAT
4	KB_GND
5	KB_VCC
6	MSCLK

VBIG1	
Pin	Name
1	12V
2	GND
3	GND
4	5V

PCI Routing Tables

PCI Slot	IDSEL	PCI interrupt pin route			
		INTA	**INTB**	**INTC**	**INDTD**
PPCI1	AD31 or AD27	INTB	INTC	INTD	INTA
PPCI2	AD30 or AD26	INTC	INTD	INTA	INTB
PPCI3	AD29	INTD	INTA	INTB	INTC
SPCI1	SAD20	INTA	INTB	INTC	INTD
SPCI2	SAD21	INTB	INTC	INTD	INTA
SPCI3	SAD22	INTC	INTD	INTA	INTB

Board Diagram
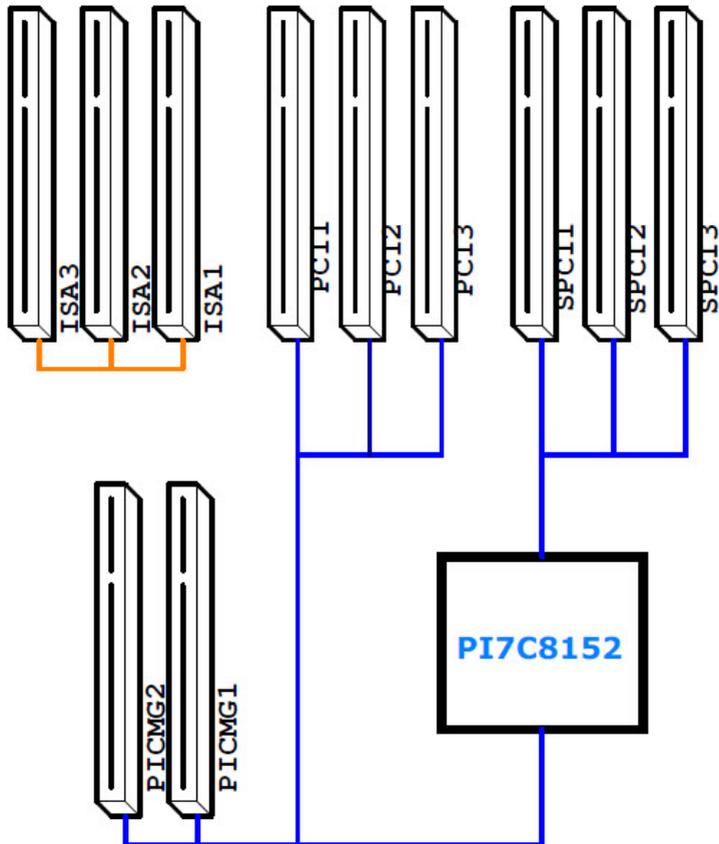
Locating Connectors & Jumpers
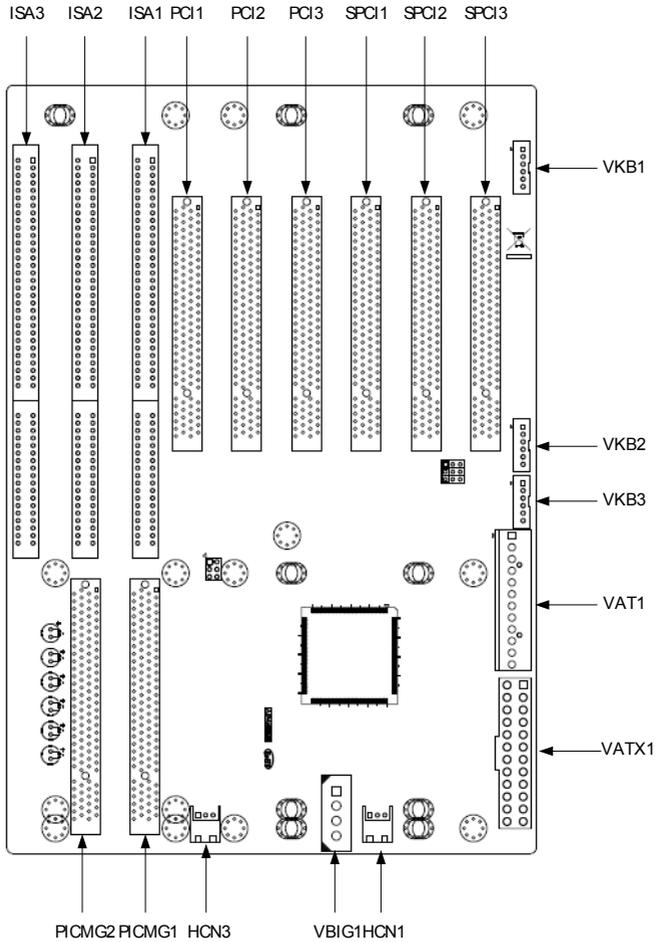
Note: When a PCI card is inserted in PCI1, it may conflict with the CPU card.

Board Dimensions