

**14-slot Backplane with 7 PCI Slots via Pericom Bridge IC and
6 ISA Slots and RoHS**

PX-14S5

Quick Installation Guide **Version 5.0**

Jan. 11, 2019

Package List

PX-14S5 package includes the following items:

- 1 x PX-14S5-RS-R50
- 1 x QIG



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Specifications

- System Type :
PICMG 1.0 backplane
- PICMG 1.0: two (full-size ISA + PCI)
- ISA Slot: five
- PCI Slot: seven
- Chassis: Mounting hole compatible with PX-14S5
- One PCI to PCI bridge (Pericom PI7C8150BMAE) supports 8 PCI ports
- One AT standard power connector, 12 pins, 5A max, per pin for +5V,-5V, +12V, -12V voltages and ground.
- One ATX standard power connector; 20 pins, 5A max. per pin for +3.3V, +5V, +5VSB, -5V, +12V, -12V voltages, ground, and power good signal.
- One ATX control connector to distribute signals coming from the CPU boards onto connector for soft on/off ATX power supply.
- One DC power outlet
- Pairs of header for local connection of a fan power, and power LEDs

Jumpers setting and connectors

LABEL	FUNCTION
ISA1, ISA2, ISA3, ISA5, ISA6	ISA connectors
PCI1/ISA4, PCI2/ISA7	PICMG connectors
PCI3, PCI4, PCI5, PCI6, PCI7, PCI8, PCI9	32-bit PCI bus connectors
PW1	P8/P9 power connector
PW3	ATX power connector
CN1	DC power extention connector
CN4	ATX P/S control connector
CN5, CN6	Fan connectors
CN7	Power good signal output
KB1	K/B connector
CN2, CN3	KB/MS connectors

PW1: P8/P9 Power Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	PWRGD	7	GND
2	+5V	8	GND
3	+12V	9	-5V
4	-12V	10	+5V
5	GND	11	+5V
6	GND	12	+5V

PW3: ATX Power Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PS_ON
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	PWRGD	18	-5V
9	STB5V	19	+5V
10	+12V	20	+5V

KB1: Keyboard Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	K/B CLK	4	GND
2	K/B DATA	5	VCC
3	NC		

CN2, CN3: Keyboard/Mouse Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	K/B CLK	4	GND
2	K/B DATA	5	+5V
3	NC		

CN1: DC Power Extension Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	+5V	4	+12V
2	-5V	5	GND
3	-12V		

CN5, CN6: Fan Connectors			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	NC	3	GND
2	+12V		

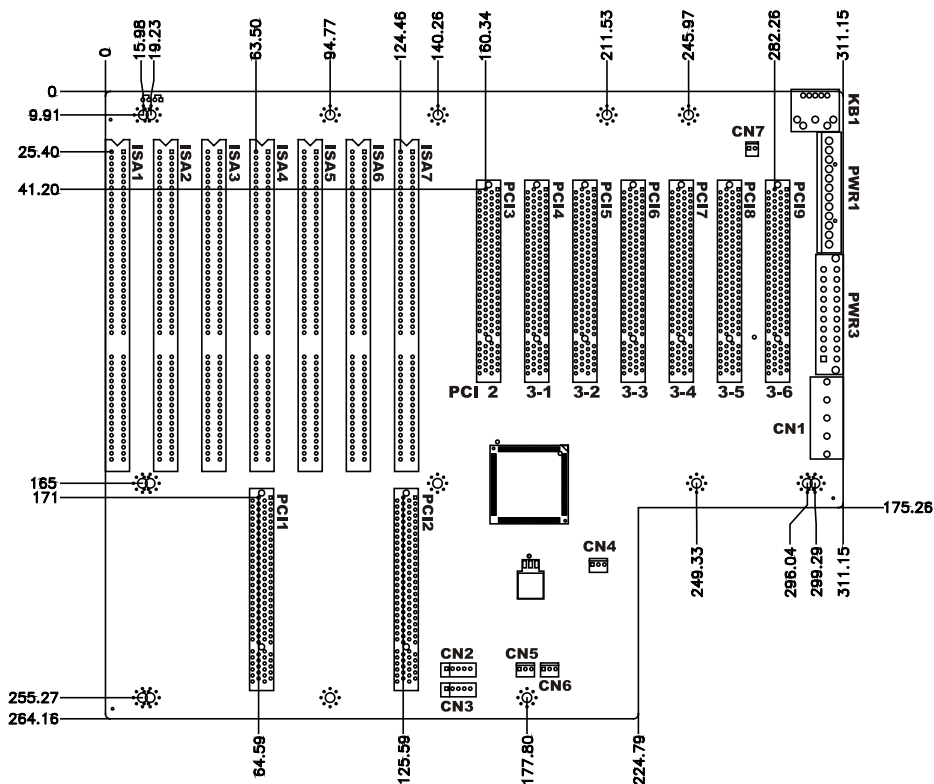
CN4: ATX Control Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	STB5V	3	GND
2	PS_ON		

CN7: Power Good Output Connector			
PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1	Power Good	2	GND

Routing List

Signal	Pin	PCI 2	PCI 3-1	PCI 3-2	PCI 3-3	PCI 3-4	PCI 3-5	PCI 3-6
REQ#	B18	REQ1#	S_REQ0#	S_REQ1#	S_REQ2#	S_REQ3#	S_REQ4#	S_REQ5#
GNT#	A17	GNT1#	S_GNT0#	S_GNT1#	S_GNT2#	S_GNT3#	S_GNT4#	S_GNT5#
CLOCK	B16	CLK1	S_CLK0	S_CLK1	S_CLK2	S_CLK3	S_CLK4	S_CLK5
IDSEL	A26	AD30	S_AD20	S_AD21	S_AD22	S_AD23	S_AD24	S_AD25
INTA#	A6	C	D	A	B	C	D	A
INTB#	B7	D	A	B	C	D	A	B
INTC#	A7	A	B	C	D	A	B	C
INTD#	B8	B	C	D	A	B	C	D

Board Layout: Jumper and Connector Locations



(Unit: mm)