

# PICMG 1.3 Passive Backplane

## Selection Guide

PAC series wall-mount Chassis

4U Rack-mount Chassis

2U Rack-mount Chassis

PICMG1.3 (PCIe+PCI)	Model	PE-4S	PE-4S2	PE-4S3	PE-5S	PE-5S2	PE-6S-R20	PE-6S2	PE-6S3	PE-6SD	PE-6SD2
Total Slot		4	4	4	5	5	6	6	6	5	5
Expansion Slots	PCIe SLOTS	x16 *	1	1	1	1	1	1	1	1	1
		x4	1			1			1		
		x1								3	3
PCI SLOTS		1	2		2	3	2	3	1	3	1
USB Connectors by Pin Header		4	4	4	4	4	4	4	4	4	4
PSU TYPE		24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX
Chassis		PAC-42GF-R20 PACO-504F	PAC-42GF-R20 PACO-504F	PAC-42GF-R20 PACO-504F	RACK-500G-R20	RACK-500G-R20	RACK-305G-R20 RACK-360G-R20 RACK-814G-R20 RACK-3000G-R20 PAC-1700G-R20 PAC-125G-R20	PAC-106G-R20 PAC-107G-R20 PAC-1000G-R20 PACO-506F	PAC-106G-R20 PAC-107G-R20 PAC-1000G-R20 PACO-506F	RACK-221G RACK-2100G	RACK-221G RACK-2100G

PICMG1.3 (PCIe+PCI)	Model	PE-7S	PE-7S2	PE-8S	PE-9S	PE-10S-R20	PE-10S2	PE-13SD	PXE-13S	PXE-19S
Total Slot		7	7	8	9	10	10	13	13	19
Expansion Slots	PCIe SLOTS	x16 *	1	1	1	1	1	1/1	1	1
		x4							1/0	
		x1	2	4	3	4	4	4	0/4	3
PCI SLOTS		3	1	3	3	4	4	2/2	8	16
USB Connectors by Pin Header		4	4	4	4	4	4	8	4	4
PSU TYPE		24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX	24+4 PIN ATX
Chassis		PAC-1700G-R20	PAC-1700G-R20	PAC-125G-R20	N/A	RACK-305G-R20 RACK-360G-R20 RACK-814G-R20 RACK-3000G-R20	RACK-3000G-R20 RACK-305G-R20 RACK-360G-R20 RACK-814G-R20	RACK-3000G-R20 RACK-305G-R20 RACK-360G-R20 RACK-814G-R20	RACK-3000G-R20 RACK-305G-R20 RACK-360G-R20 RACK-814G-R20	RACK-3200G-R20 RACK-3035G-R20

\* PCIe x16 Slot also supports PCIe x1/x2/x4/x8 PCIe add on cards

## PCIe-to-PCI Bridge

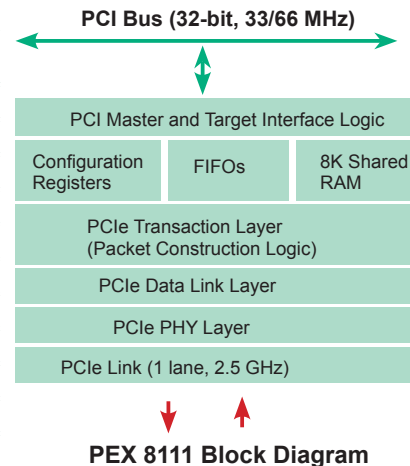
### A new concept to expand PCI slots on passive backplane

The creative PCIe to PCI bridge enables designers to migrate legacy PCI bus interfaces to the new advanced serial PCIe. IEI R&D choose PLX PEX8111 bridge chip to convert PICMG 1.3 SHB slot's PCIe x1 to four 32-bit 33/66MHz PCI slots. Due to almost desk top PC chipset's PCI interface is 32bit/33MHz and many high end PCI cards with capability to run up to 66MHz, it will boost the PCI card's performance when use with the PEX8111 PCIe to PCI bridge chip.

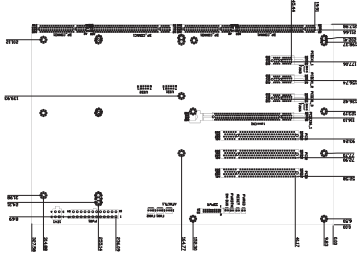
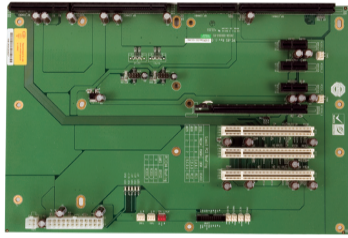
Please refer the following PCI read/write performance table for 32bit/66MHz PCI Card and enable DMA.



Transfer Size (Byte)	PCI --> Local(PCI Read) MB/sec	Local --> PCI(PCI Write) MB/sec
1	0.14	0.2
4	0.5	0.7
16	2	3
32	4	6
64	8	12
128	15	24
256	31	44
1K	60	92
64K	158	160
128K	162	171
256K	164	174
1M	166	176



## PE-8S

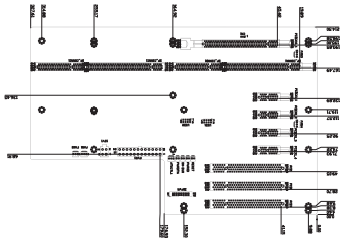
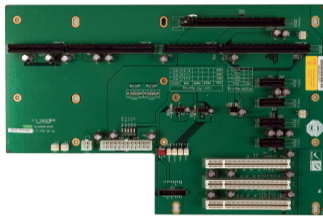


### Ordering Information

PE-8S-R10 8 Slots Backplane with 1 PCIe x 16 and 3 PCIe x1 and 3 PCI slot.  
 PAC-125G-R20 10 Slots Full Size Industrial Chassis

## PE-9S

Mounting holes compatible with PCI-10S2

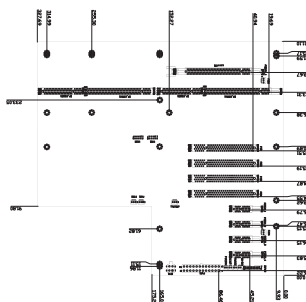
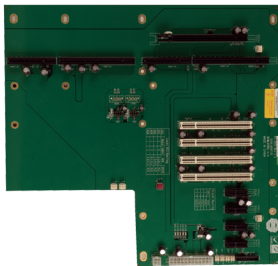


### Ordering Information

PE-9S-R10 9 Slots Backplane with 1 PCIe x 16 and 4 PCIe x 1 and 3 PCI slot.

## PE-10S2

Mounting holes compatible with PCI-14S

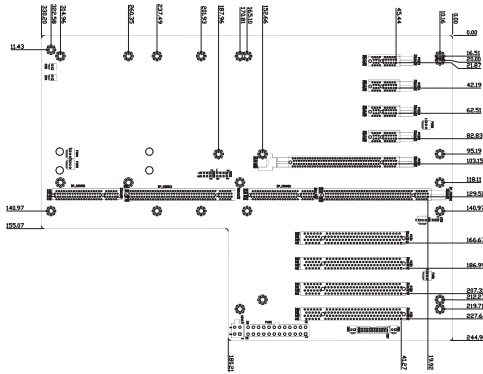
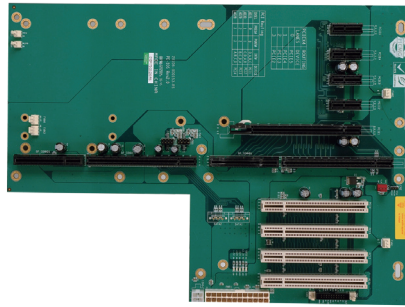


### Ordering Information

PE-10S R10 10 Slots Backplane with 1 PCIe x 16 and 4 PCIe x 1 and 4 PCI slot.  
 RACK-3000G-R20 14 Slots Full Size Industrial Chassis  
 RACK-305G-R20 14 slots Full Size Industrial Chassis  
 RACK-360G-R20 14 slots Full Size Industrial Chassis  
 RACK-814G-R20 14 slots Full Size Industrial Chassis

## PE-10S-R20

Mounting holes compatible with PCI-14S



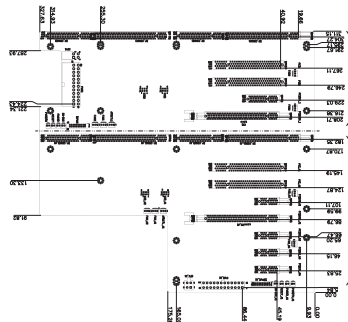
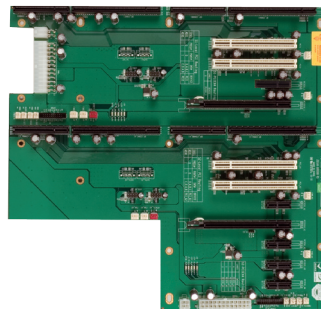
### Ordering Information

PE-10S-R20 PICMG 1.3 10 slots backplane with 1 PCIe X16, 4 PCIe x1 and 4 PCI slots  
 RACK-305G-R20 4U Rack-mount Industrial Chassis  
 RACK-360G-R20 4U Rack-mount Industrial Chassis  
 RACK-814G -R20 4U Rack-mount Industrial Chassis  
 RACK-3000G-R20 4U Rack-mount Industrial Chassis

## PE-13SD

Mounting holes compatible with PCI-14S

Dual system



### Ordering Information

PE-13SD-R10 13 Slots Backplane with 2 PCIe x 16 and 1 PCIe x 4 and 4 PCIe x 1 and 4 PCI slot.  
 RACK-3000G-R20 14 Slots Full Size Industrial Chassis  
 RACK-305G-R20 14 slots Full Size Industrial Chassis  
 RACK-360G-R20 14 slots Full Size Industrial Chassis  
 RACK-814G-R20 14 slots Full Size Industrial Chassis

1 Single Board Computer

2 VIDEO CARD

3 Xscale Solutions

4 Open HMI

5 VITO Universal Controller

6 DINO BLADE

7 LCD Product Series

8 Embedded System

9 Industrial Computer Chassis

10 Power Supply

11 Peripherals