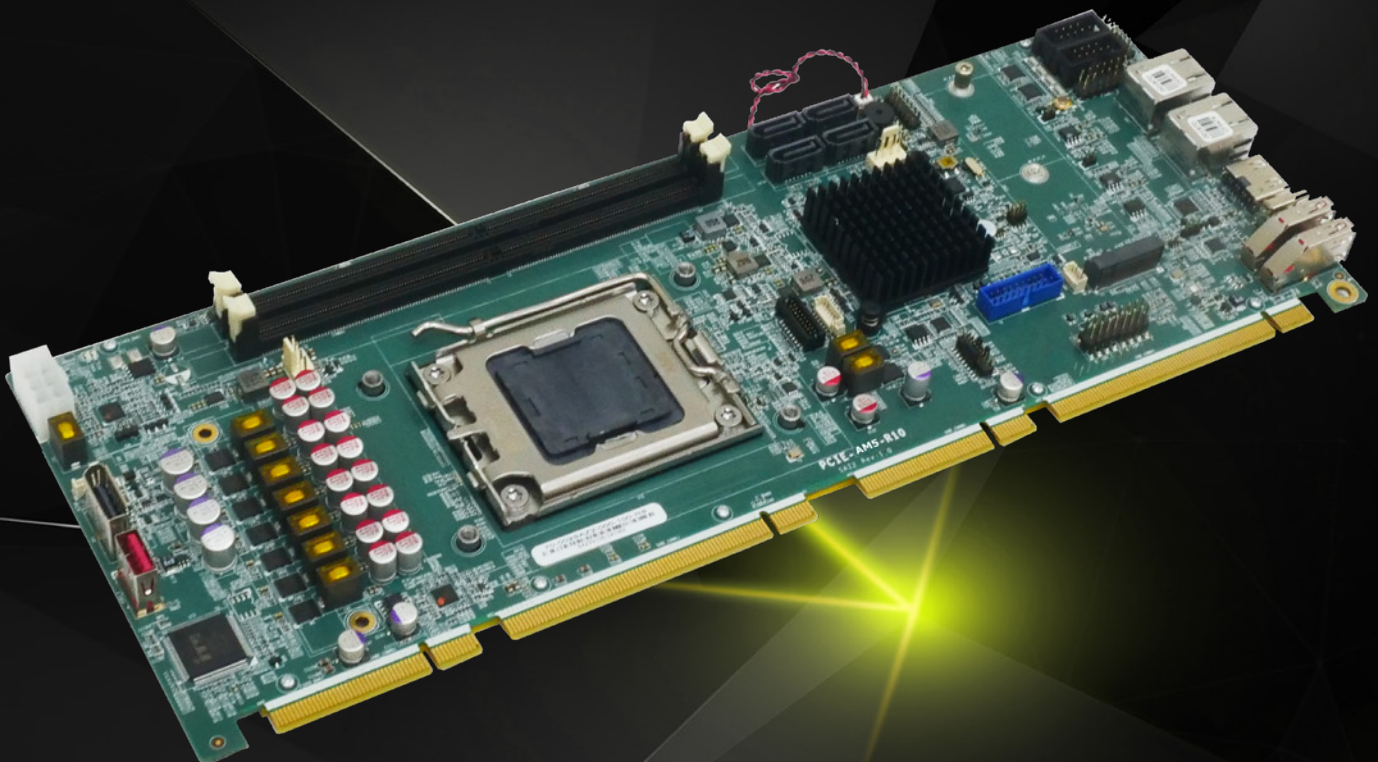


# PCIE-AM5

Full-size PICMG 1.3 CPU Card supports AMD Ryzen™ 7000/Ryzen™ 8000 Series Desktop Processors

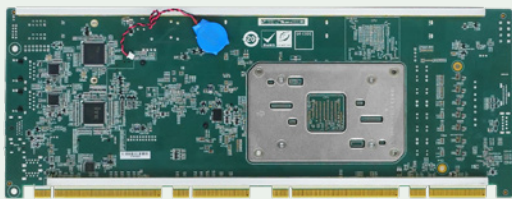
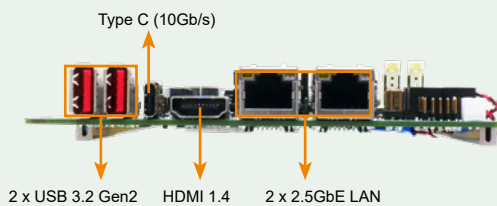
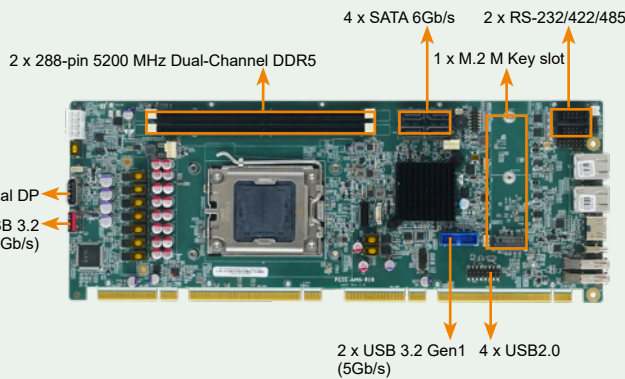
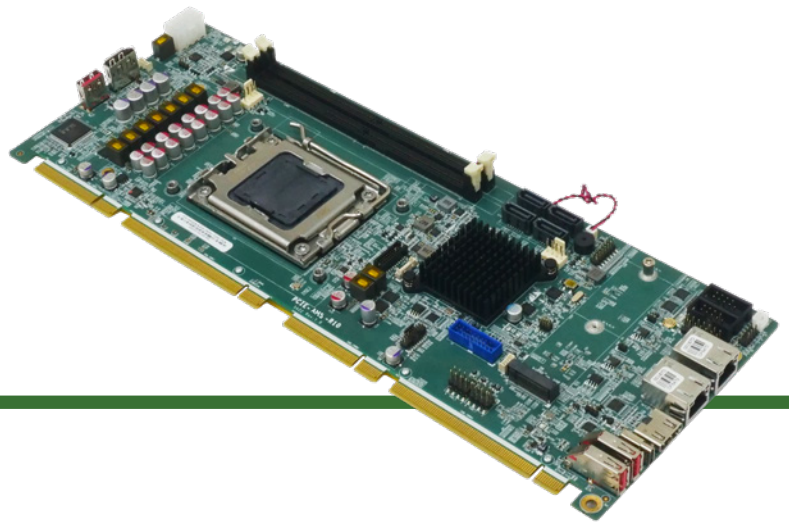
- Dual-channel DDR5 5200MHz
- Support DisplayPort 1.4, HDMI
- Four SATA 6Gb/s supported RAID 0/1/10
- Flexible expansion with full-size PICMG1.3 CPU board



[www.ieiworld.com](http://www.ieiworld.com)

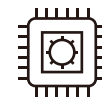
# PCIE-AM5

Full-size PICMG 1.3 CPU Card supports AMD Ryzen™ 7000/Ryzen™ 8000 Series Desktop Processors



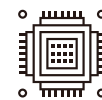
## Support AMD Ryzen™ 7000&8000G PHX1 Series CPU

AMD AM5 Socket for AMD Ryzen™ 7000&8000G PHX1 Series Desktop Processors (up to 65W TDP CPU)



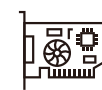
## Support Dual-Channel DDR5 SO-DIMMs

Two 288-pin Dual-Channel DDR5 SDRAM Unbuffered DIMMs, supported up to 64GB, Speeds up to 5200MHz



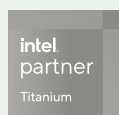
## Support Intel® I226-V 2.5GbE Network Controller

It includes one PCIe x16, two PCIe x4, one PCIe x1 and two M.2 M Key for more expansion cards to install.

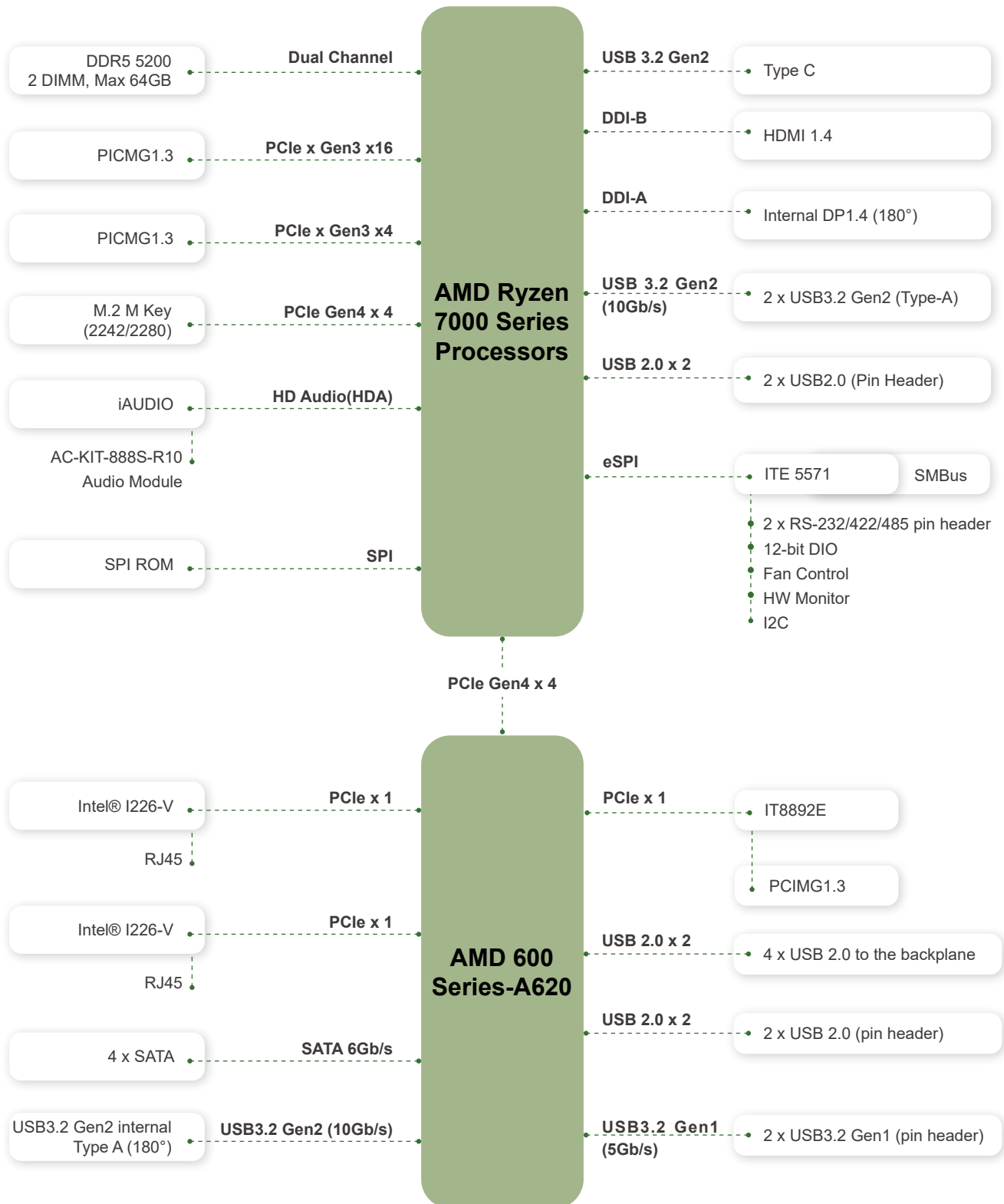


## Support Multiple Interface

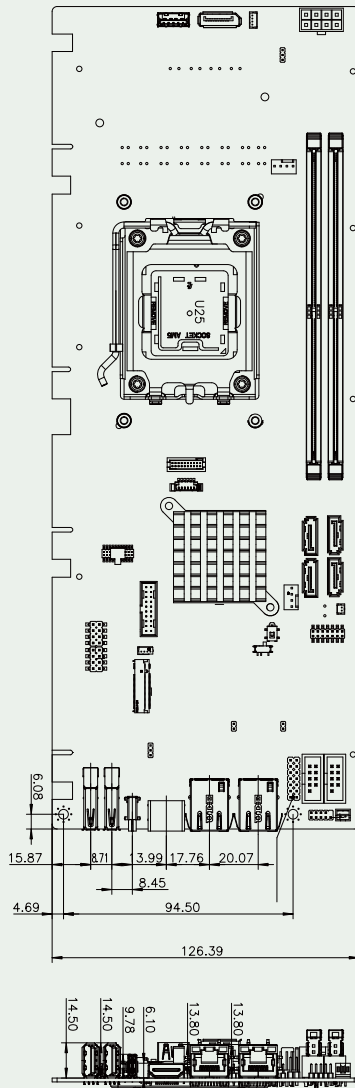
Support 1 x PCIe x16 signal via golden finger (Support x16, or x8 + x8, or x4 + x4 + x8) ,4 x PCIe x1 signal via golden finger (support1 x4, or 4 x1), 4 x PCI signal via golden finger , 4 x USB2.0 to the backplane, and M.2 M key for NVME storage expansion



# Block Diagram



### Dimensions



### Optional Accessories

19800-003100-100-RS	19800-010500-200-RS
32102-000100-200-RS	32205-000702-100-RS
19100-000344-00-RS	19100-000345-00-RS

### Specifications

Model	PCIE-AM5
CPU	AMD Socket AM5 for AMD Ryzen™ 7000/Ryzen™ 8000 Series Desktop Processors (up to 65W)
Chipset	A620
BIOS	AMI UEFI BIOS
Memory	two 288-pin 5200 MHz Dual-Channel DDR5 SDRAM Unbuffered DIMMs, supported up to 64GB
Graphics Engine	Integrated RDNA2 GPU
Display Output	Dual independent display 1 x HDMI 1.4 (4K @30Hz) 1 x internal DP 1.4 (180°) (4K @60Hz)
Ethernet	LAN1: Intel® I226-V 2.5GbE controller LAN2: Intel® I226-V 2.5GbE controller
External I/O Interface	2 x USB 3.2 Gen2 (Type-A) 1 x Type C (10Gb/s)
Internal I/O Interface	4 x SATA 6Gb/s (RAID 0/1/10 supported) 2 x RS-232/422/485 (2x5 pin, P=2.54) 2 x USB 3.2 Gen1 (2x10 pin P=2.00 pin wafer) (5Gb/s) 1 x USB 3.2 (10Gb/s) (internal Type A) 4x USB 2.0 (2x4 pin, P=2.54) 4 x USB2.0 to the backplane
SMBus	1 x SMBus (1x4 pin)
I <sup>2</sup> C	1 x I <sup>2</sup> C (1x4 pin)
Audio	1 x iAUDIO, support IEI AC-KIT-888S Audio Module (2x5 pin)
Front Panel	1 x Front Panel (2x7 pin, Power LED, HDD LED, Speaker, Power button, Reset button)
LAN LED	2 x LAN LED (1x2 pin)
Expansion	1 x PCIe Gen3 x16 signal via golden finger (Support x16, or x8 + x8, or x4 + x4 + x4 + x4) 4 x PCIe Gen3 x1 signal via golden finger (support1 x4, or 4 x1) 4 x PCI signal via golden finger 1 x M.2 M Key slot (2242/2280, PCIe Gen4 x4 ) NVMe support
Digital I/O	1 x 12-bit digital I/O (2x7 pin)
TPM	Support TPM 2.0(TPM-IN03 module)
FAN Connector	1 x CPU fan connector (1x4 pin) 1 x System fan connector (1x4 pin)
Power Supply	ATX/AT power supply Support AT/ATX mode ErP/EuP Compliant
Watchdog Timer	Software Programmable support 1~255 sec. System reset
Power Consumption	TBD
Operating Temperature	0°C ~ 60°C
Storage Temperature	-30°C ~ 70°C
Operating Humidity	5% ~95%, non-condensing
Diemension	338 mm x 126 mm
Weight	GW:1000g / NW:500g
Certification	CE/FCC compliant

### Packing List

1 x PCIE-AM5 single board computer	1 x SATA cable
1 x QIG	

### Ordering Informaiton

PCIE-AM5-R10	Full-size PICMG 1.3 CPU Card supports AMD Ryzen™ 7000/Ryzen™ 8000 Series Desktop Processors, DDR5 SO-DIMM, Dual Display, Dual Intel 2.5GbE, USB3.2, M.2, RoHS
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### Optional Accessories

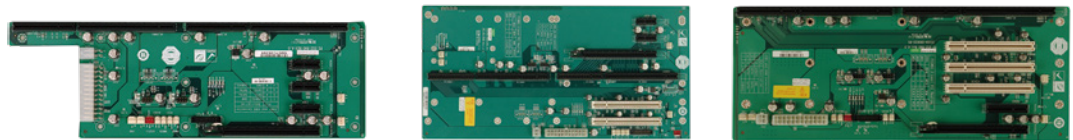
19800-003100-100-RS	Dual port USB cable with bracket, 30mm, P=2.54
19800-010500-200-RS	USB 3.0 cable 457mm with bracket
32102-000100-200-RS	SATA power cable, MOLEX 5264-4P to SATA15P
32205-000702-100-RS	RS-232 cable, 230mm, P=2.54
19100-000344-00-RS	65W CPU fan, Heatsink: 58 x 45.5 x 71.81mm, FAN: 60 x 60 x 25.4mm
19100-000345-00-RS	65W CPU fan, Heatsink: 72 x 70 x 25.5mm, FAN: 70 x 70 x 15.3mm

# PICMG 1.3 Passive Backplane

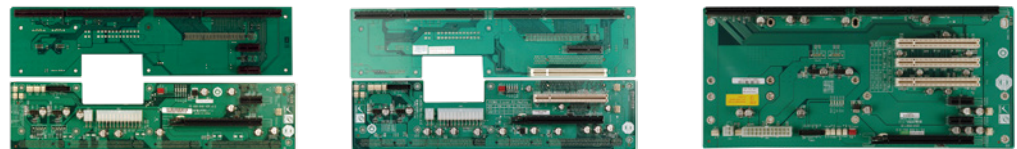
## Full-Size SBC Backplane



PICMG 1.3 (PCIe+PCI)		Model	PE-2SD1	PE-4S	PE-5S
Total Slot			2	4	5
Expansion Slots	PCIe Slots	x16 *	1 (Gen 2.0)	1	1 (Gen 2.0)
		x4		1	1 (Gen 2.0)
	PCI Slots			1	2
USB Connectors by Pin Header			4	4	4
PSU Type			24+4-pin ATX	24+4-pin ATX	24+4-pin ATX
Chassis			RACK-1150-PE	N/A	N/A
Note			1U Type		



PICMG 1.3 (PCIe+PCI)		Model	PE-5S2	PE-6S	PE-6S2
Total Slot			5	6	6
Expansion Slots	PCIe Slots	x16 *	1 (Gen 2.0)	1 (Gen 2.0)	1 (Gen 2.0)
		x4		2 (Gen 2.0)	1 (Gen 2.0)
	PCI Slots		3 (Gen 2.0)	2 (Gen 2.0)	3
USB Connectors by Pin Header			4	4	4
PSU Type			24+4-pin ATX	24+4-pin ATX	24+4-pin ATX
Chassis			N/A	RACK-305G RACK-360G RACK-3000G PAC-1700G PAC-125 G	PAC-106G PAC-1000G
Note					



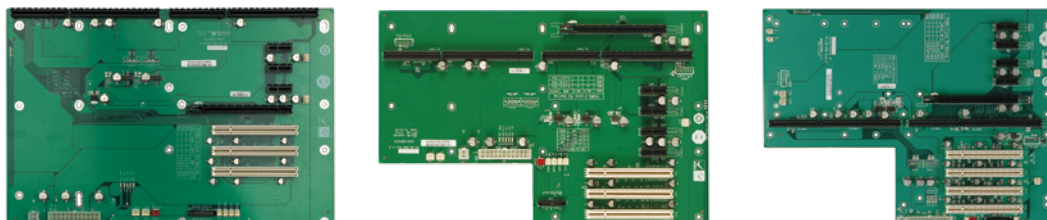
PICMG 1.3 (PCIe+PCI)		Model	PE-6SD	PE-6SD3	PE-7S
Total Slot			5	5	7
Expansion Slots	PCIe Slots	x16 *	1 (Gen 2.0)	1 (Gen 2.0)	1 (Gen 2.0)
		x4		1 (Gen 2.0)	
	PCI Slots		3 (Gen 2.0)	2	3
USB Connectors by Pin Header			4	4	4
PSU Type			24+4-pin ATX	24+4-pin ATX	24+4-pin ATX
Chassis			N/A	N/A	PAC-1700G
Note			2U Type	2U Type	

PAC series wall-mount chassis

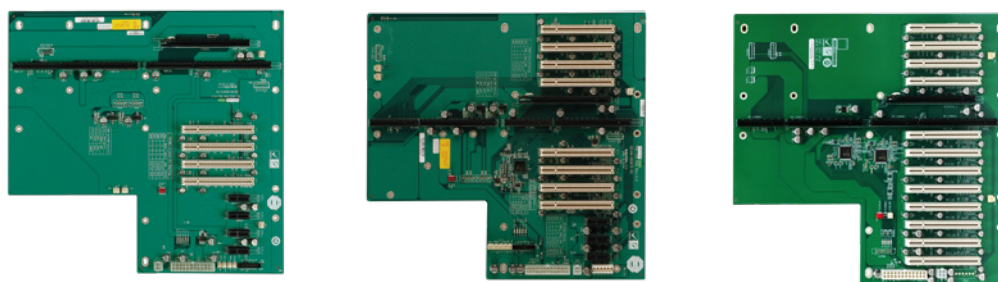
4U/5U rack-mount chassis

1U/2U rack-mount chassis

# PICMG 1.3 Passive Backplane



PICMG 1.3 (PCIe+PCI)			Model	PE-8S	PE-9S	PE-10S
Total Slot				8	9	10
Expansion Slots	PCIe Slots	x16 *		1 (Gen 2.0)	1 (Gen 2.0)	1 (Gen 2.0)
		x1		3 (Gen 2.0)	4 (Gen 2.0)	4 (Gen 2.0)
	PCI Slots			3	3	4
USB Connectors by Pin Header				4	4	4
PSU Type				24+4-pin ATX	24+4-pin ATX	24+4-pin ATX
Chassis				PAC-125G	N/A	RACK-305G / RACK-360G / RACK-3000G



PICMG 1.3 (PCIe+PCI)			Model	PE-10S2	PXE-13S	PXE-14S1
Total Slot				10	13	14
Expansion Slots	PCIe Slots	x16 *		1 (Gen 2.0)	1 (Gen 3.0)	1 (Gen 3.0)
		x1		4 (Gen 2.0)	3 (Gen 3.0)	0
	PCI Slots			4	8	12
USB Connectors by Pin Header				4	4	0
PSU Type				24+4-pin ATX	24+4-pin ATX	24+4-pin ATX
Chassis				RACK-3000G / RACK-305G / RACK-360G	RACK-3000G / RACK-305G / RACK-360G	RACK-3000G / RACK-305G / RACK-360G
Note					PCIe to PCI Bridge Backplane	

\*When using a PCIe x16 add-on card, the length of the card must not exceed 167mm or 6.57 inches.

