# PICMG 1.3 Passive Backplane

## Selection Guide

■ PAC series wall-mount chassis    ■ 4U/5U Rack-mount chassis    ■ 1U/2U Rack-mount chassis
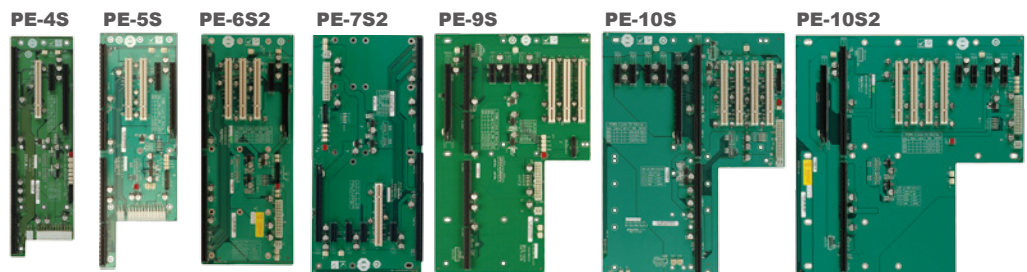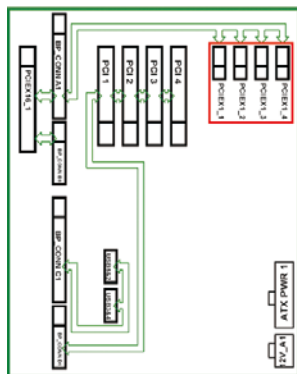
| PICMG1.3 (PCIe+PCI) | Model | | PE-2SD1 | PE-2SD2 | PE-4S | PE-4S2 | PE-4S3 | PE-5S | PE-5S2 | PE-6S | PE-6S2 | PE-6S3 | PE-6SD | PE-6SD2 | PE-6SD3 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Slot | | 2 | 2 | 4 | 4 | 4 | 5 | 5 | 6 | 6 | 6 | 5 | 5 | 5 |
| Expansion Slots | PCIe Slots | x16 * | 1 | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | | x4 | | | 1 | | | 1 | | | 1 | | | | 1 |
| | | x1 | | | | 2 | | | 3 | 2 | | 3 | 3 | 2 | |
| | PCI-X Slots | | | | | | | | | | | | | | |
| | PCI Slots | | | 1 | 1 | 2 | | 2 | | 2 | 3 | 1 | | 1 | 2 |
| USB Connectors by Pin Header | | | 4 | 4 | 4 | 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 | 24+4 PIN ATX | 24+4 PIN ATX | 24+4 PIN ATX |
| Chassis | | | RACK-1150-PE RACP-1151-PE | RACK-1150-PE RACP-1151-PE | N/A | N/A | N/A | RACK-500G | RACK-500G | RACK-305G RACK-360G RACK-3000G PAC-1700G PAC-125 | PAC-106G x 1 PAC-107G x 1 PAC-1000G | PAC-106G x 1 PAC-107G x 1 PAC-1000G | N/A | N/A | N/A |
| Note | | | 1U Type | 1U Type | | | | | | | | | 2U Type | 2U Type | 2U Type |

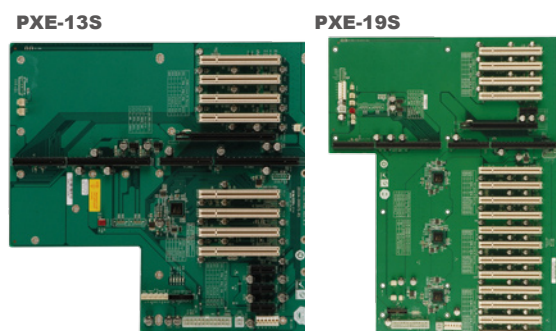| PICMG1.3 (PCIe+PCI) | Model | | PE-7S | PE-7S2 | PE-8S | PE-9S | PE-10S | PE- 10S2 | PE-13SD | PE-16SQ | PXE-12S | PXE-13S | PXE-19S | PXE-19S2 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Total Slot | | 7 | 7 | 8 | 9 | 10 | 10 | 13 | 16 | 12 | 13 | 19 | 19 |
| Expansion Slots | PCIe Slots | x16 * | 1 | 1 | 1 | 1 | 1 | 1 | 1/1 | 1/1/1/1 | 1 | 1 | 1 | 1 |
| | | x4 | | | | | | | 1/0 | 1/1/1/1 | | | | |
| | | x1 | 2 | 4 | 3 | 4 | 4 | 4 | 0/4 | 0 | | 3 | 1 | 1 |
| | PCI-X Slots | | | | | | | | | | 6 | | | |
| | PCI Slots | | 3 | 1 | 3 | 3 | 4 | 4 | 2/2 | 1/1/1/1 | 4 | 8 | 16 | 16 |
| USB Connectors by Pin Header | | | 4 | 4 | 4 | 4 | 4 | 4 | 8 | 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 | Dual 24+4 PIN ATX | Three 20+4 Pin ATX One 24+4-pin ATX | 24+4 PIN ATX | 24+4 PIN ATX | 24+4 PIN ATX | 24+4 PIN ATX |
| Chassis | | | PAC-1700G | PAC-1700G | PAC-125G | N/A | RACK-305G RACK-360G RACK-3000G | RACK-3000G RACK-305G RACK-360G | RACK-3000G RACK-305G RACK-360G | N/A | RACK-3000G RACK-305G RACK-360G | RACK-3000G RACK-305G RACK-360G | N/A | N/A |
| Note | | | | | | | | | Dual System Backplane | Quad System Backplane | PCIe to PCI-X Bridge backplane | 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.

# IEI Graphic Grade Backplane Solution

Graphic centric backplane targets applications which concern system speed and performance. It has higher performance over cost ratio than the previous PICMG1.0 solution.
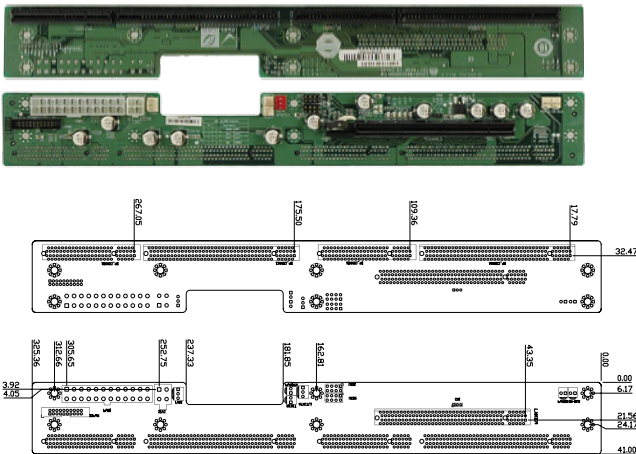


PE-4S  PE-5S  PE-6S2  PE-7S2  PE-9S  PE-10S  PE-10S2

• Twenty PCIe lanes total
• One PCIe x16 slot
• Up to four PCIe x1 or  One PCIe x4 slot
• Up to four local PCI slots  (w/o bridge)



PXE-13S  PXE-19S

• Twenty PCIe lanes total
• One PCIe x16 slot
• Up to four PCIe x1 slots
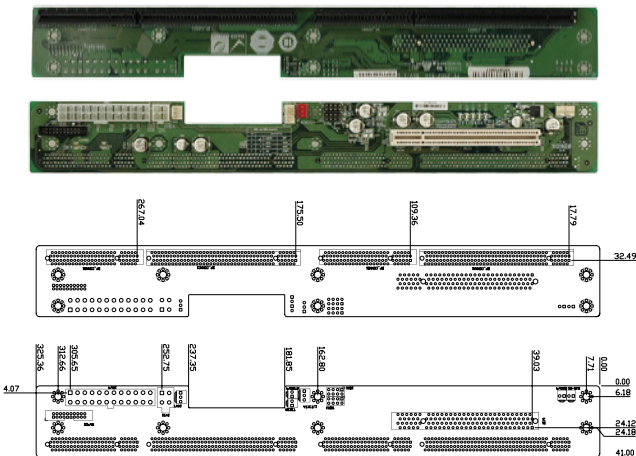• PCI slots expandable via PCIe to PCI bridge

## PE–2SD1–R10

**For 1U system!**

### Ordering Information

- PE-2SD1-R10     2-slot backplane with one PCIe slot
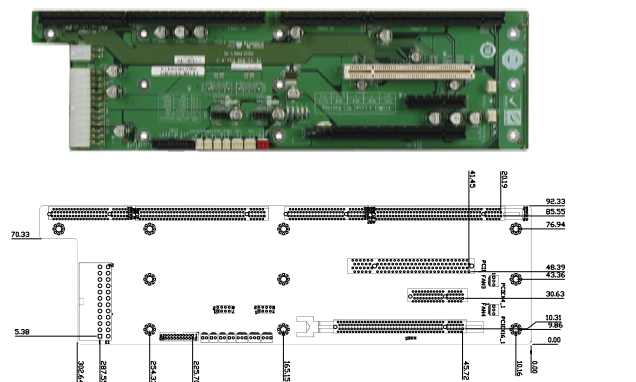- RACK-1150G-PE     1U full-size rack-mount chassis

## PE–2SD2–R10

**For 1U system!**

### Ordering Information

- PE-2SD2-R10     2-slot backplane with one PCI slot
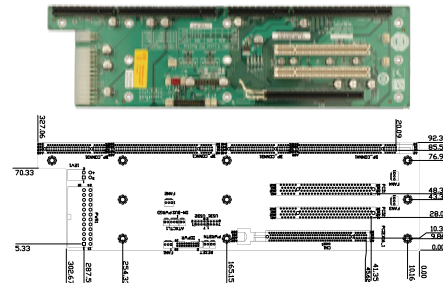- RACK-1150G-PE     1U full-size rack-mount chassis

## PE–4S–R40

**Mounting holes compatible with PCI-4S**

### Ordering Information

- PE-4S-R40     4-slot backplane with one PCIe x16 slot, one PCIe x4 slot and one PCI slot
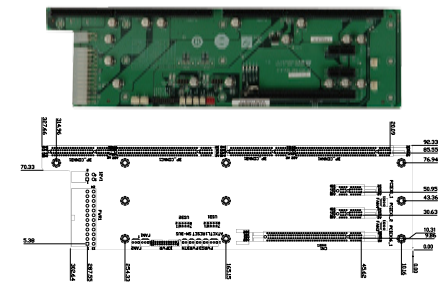
## PE–4S2–R40

**Mounting holes compatible with PCI-4S**

### Ordering Information

- PE-4S2-R40     4-slot backplane with one PCIe x16 slot and two PCI slots
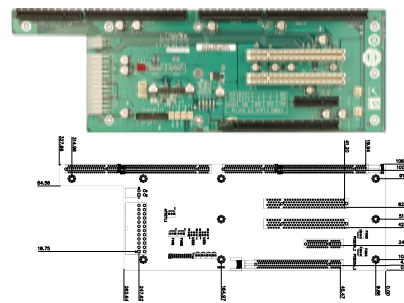
## PE–4S3–R40

**Mounting holes compatible with PCI-4S**

### Ordering Information

- PE-4S3-R40     4-slot backplane with one PCIe x16 slot and two PCIe x1 slots.
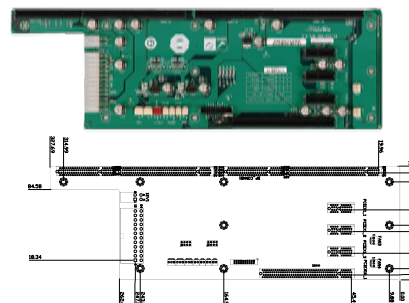
## PE–5S–R40

**Mounting holes compatible with PCI-5S**

### Ordering Information

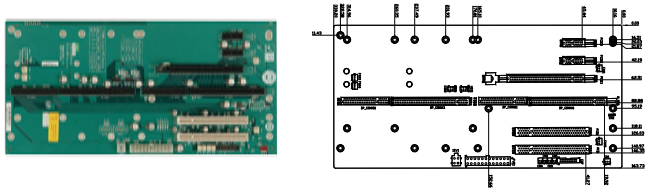- PE-5S-R40     5-slot backplane with one PCIe x16 slot, one PCIe x4 slot and two PCI slots
- RACK-500G     5U 5-slot full-size rack-mount chassis

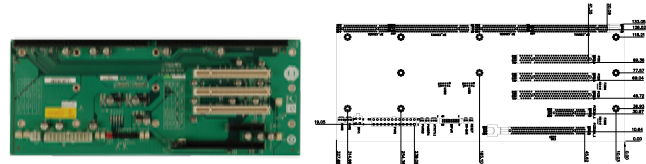## PE–5S2–R40

**Mounting holes compatible with PCI-5S**

### Ordering Information

- PE-5S2-R40     5-slot backplane with one PCIe x16 slot and three PCIe x1 slots
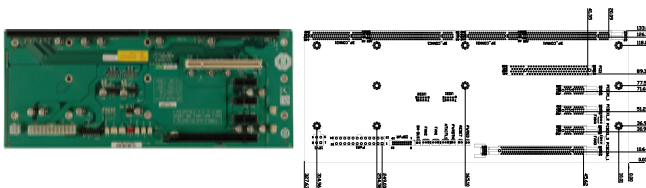- RACK-500G     5U 5-slot full-size rack-mount chassis

## Single board computer
### Full Size
www.ieiworld.com

## PE–6S–R41
**Mounting holes compatible with PCI-7S**

### Ordering Information

- PE-6S-R41 — 6-slot backplane with one PCIe x16 slot, two PCIe x1 slots and two PCI slots
- RACK-305G — 4U 14-slot full-size rack-mount chassis
- RACK-360G — 4U 14-slot full-size rack-mount chassis
- RACK-3000G — 4U 14-slot full-size rack-mount chassis
- PAC-1700G — 7-slot full-size compact chassis
- PAC-125G — 10-slot full-size compact chassis

## PE–6S2–R40
**Mounting holes compatible with PCI-6S**
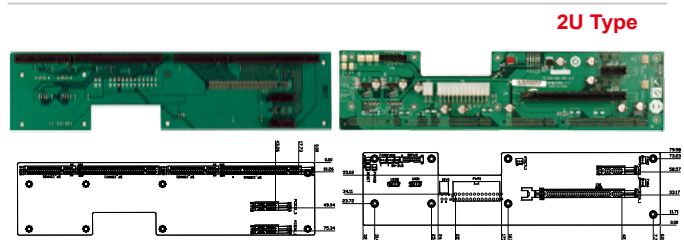
### Ordering Information

- PE-6S2-R40 — 6-slot backplane with one PCIe x16 slot, one PCIe x4 slot and three PCI slots
- PAC-106G * — 6-slot full-size compact chassis
- PAC-107G * — 6-slot full-size compact chassis
- PAC-1000G — 6-slot full-size compact chassis

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

## PE–6S3–R40
**Mounting holes compatible with PCI-6S**

### Ordering Information

- PE-6S3-R40 — 6-slot backplane with one PCIe x16 slot, three PCIe x1 slots and one PCI slot
- PAC-106G * — 6-slot full-size compact chassis
- PAC-107G * — 6-slot full-size compact chassis
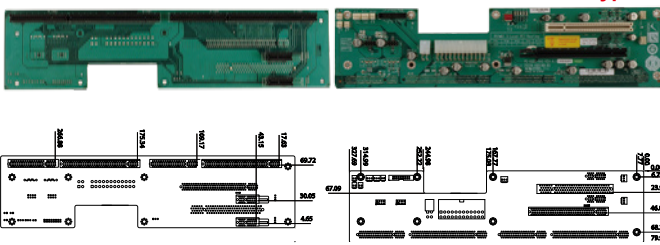- PAC-1000G — 6-slot full-size compact chassis

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

## PE–6SD–R40
**Mounting holes compatible with PCI-6SD**

**2U Type**

### Ordering Information

- PE-6SD-R40 — 5-slot backplane with one PCIe x16 slot and three PCIe x1 slots

## PE–6SD2–R40
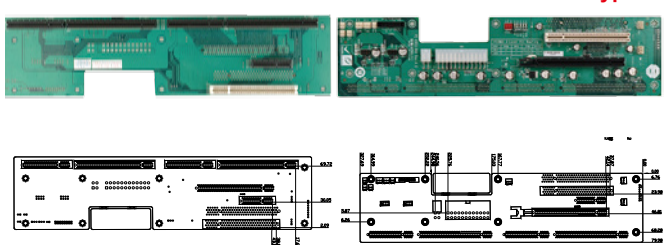**Mounting holes compatible with PCI-6SD**
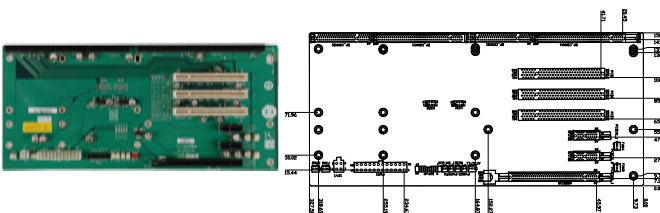
**2U Type**

### Ordering Information

- PE-6SD2-R40 — 5-slot backplane with one PCIe x16 slot, two PCIe x1 slots and one PCI slot

## PE–6SD3–R40
**Mounting holes compatible with PCI-6SD**

**2U Type**

### Ordering Information

- PE-6SD3-R40 — 5-slot backplane with one PCIe x16 slot, one PCIe x4 slots and two PCI slots

## PE–7S–R40
**Mounting holes compatible with PCI-7S**

### Ordering Information

- PE-7S-R40 — 7-slot backplane with one PCIe x16 slot, two PCIe x1 slots and three PCI slots PCI slot.
- PAC-1700G — 7-slot full-size compact chassis

## PE–7S2–R40
**Mounting holes compatible with PCI-7S**

### Ordering Information

- PE-7S2-R40 — 7-slot backplane with one PCIe x16 slot and four PCIe x1 slots and one PCI slot
- PAC-1700G — 7-slot full-size compact chassis

# PE–8S–R40



### Ordering Information

- PE-8S-R40    8-slot backplane with one PCIe x16 slots, three PCIe x1 slots and three PCI slots
- PAC-125G    10-slot full-size compact chassis

# PE–9S–R40    **Mounting holes compatible with PCI-10S2**



### Ordering Information

- PE-9S-R40    9-slot backplane with one PCIe x16 slot, four PCIe x1 slots and three PCI slots

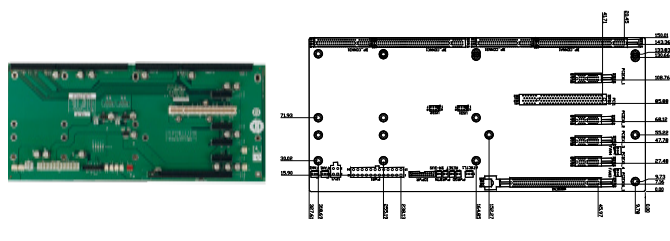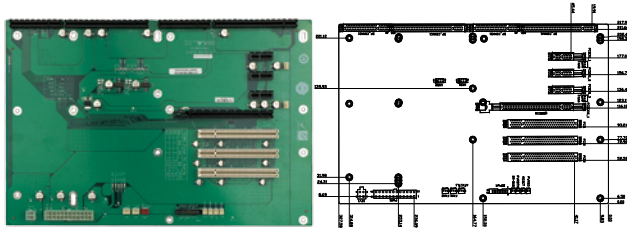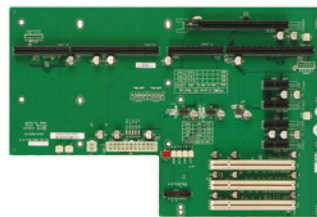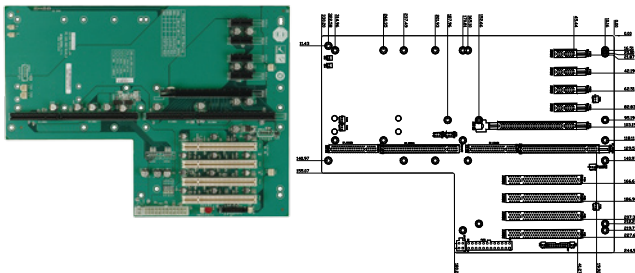# PE–10S–R40    **Mounting holes compatible with PCI-14S**



### Ordering Information

- PE-10S-R40    10-slot backplane with one PCIe x16 slots four PCIe x1 slots and four PCI slots
- RACK-305G    4U 14-slot full-size rack-mount chassis
- RACK-360G    4U 14-slot full-size rack-mount chassis
- RACK-3000G    4U 14-slot full-size rack-mount chassis

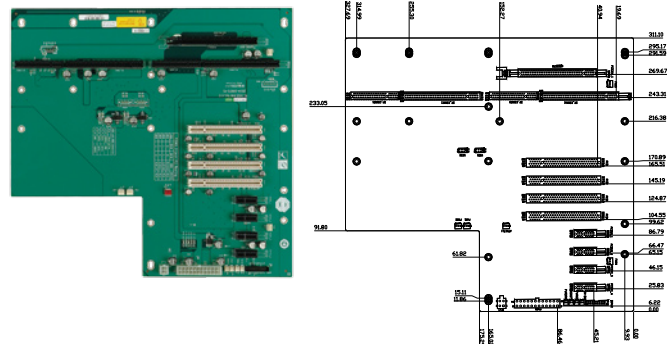# PE–10S2–R40    **Mounting holes compatible with PCI-14S**



### Ordering Information

- PE-10S2-R40    10-slot backplane with one PCIe x16 slot, four PCIe x1 slot and four PCI slots
- RACK-3000G    4U 14-slot full-size rack-mount chassis
- RACK-305G0    4U 14-slot full-size rack-mount chassis
- RACK-360G    4U 14-slot full-size rack-mount chassis

# PE–13SD–R40    **Mounting holes compatible with PCI-14S**

*Dual system*



**2 independent power resources**

### Ordering Information

- PE-13SD-R40    13-slot backplane with two PCIe x 16 and one PCIe x 4 and four PCIe x 1 and four PCI slot.
- RACK-3000G    4U 14-slot full-size rack-mount chassis
- RACK-305G    4U 14-slot full-size rack-mount chassis
- RACK-360G    4U 14-slot full-size rack-mount chassis

# PE–16SQ–R10

*Quad system*



**4 independent power sources**

### Ordering Information

- PE-16SQ-R10    4-system backplane with each system having one PCIe x16 slot, one PCIe x4 slot and one PCI slot

## PXE–12S–R10
**Mounting holes compatible with PCI-14S**

**(PCIe to PCI-X Bridge)**



### Ordering Information

● PXE-12S-R10    12-slot backplane with one PCIe x16 slot,
     six PCI-X slots and four PCI slots
● RACK-3000G    4U 14-slot full-size rack-mount chassis
● RACK-305G    4U 14-slot full-size rack-mount chassis
● RACK-360G    4U 14-slot full-size rack-mount chassis

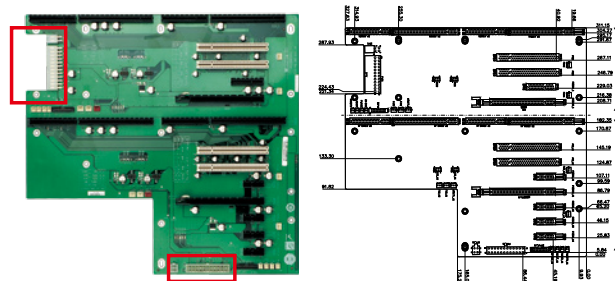## PXE–19S–R40
**Mounting holes compatible with PCI-19S**

**(PCIe to PCI Bridge)**



### Ordering Information

● PXE-19S-R40    19-slot backplane with one PCIe x16 slot, one PCIe x1 slot
     and sixteen PCI slots

## PXE–13S–R42
**Mounting holes compatible with PCI-14S**

**(PCIe to PCI Bridge)**



### Ordering Information

● PXE-13S-R42    13-slot backplane with one PCIe x16 slot, three PCIe x1 slots
     and eight PCI slots
● RACK-3000G    4U 14-slot full-size rack-mount chassis
● RACK-305G    4U 14-slot full-size rack-mount chassis
● RACK-360G    4U 14-slot full-size rack-mount chassis

## PXE–19S2–R10
**Mounting holes compatible with PCI-19S**
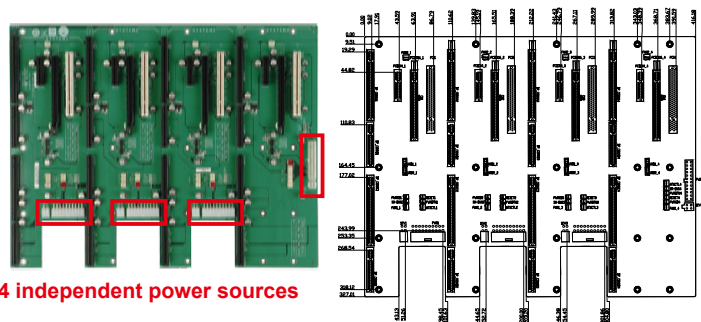
**(PCIe to PCI Bridge)**



### Ordering Information

● PXE-19S2-R10    19-slot backplane with one PCIe x16 slot,
     one PCIe x1 slot and sixteen PCI slots