



# PCIE-PCIX-7S

## PCI Express to PCI-X Expansion Systems

### Features

- Easy to use – no software required
- PCI Express host data bus
- Standard height or low profile x4 PCI Express host card
- Integrated backplane controller card
- Intel 41210 PCI Express to PCI-X bridge
- PCI-Express x4 (10Gb/s raw throughput in each direction) interface over cable
- PCI-X segments support all legacy speeds
- 7 available 64-bit slots:
  - One 133 MHz PCI-X
  - Two 100 MHz PCI-X
  - Four 66 MHz PCI-X
- 4U, 19-inch rackmount enclosure
- ATX form factor
- 3.3V signaling on PCI-X slots
- 5-meter cables included
- Forced air cooling
- Conformance:
  - PCI Express 1.0a
  - PCI-X 1.0b
  - FCC Class A
  - UL Listed

### Benefits

GE Fanuc Embedded Systems PCI Express to PCI-X Expansion Systems provide an easy-to-use migration path to PCI Express for legacy PCI-X and PCI cards. Designed for high throughput and enhanced system functionality, the expansion systems provide seven available 64-bit slots with PCI Express cable interfaces supporting 10Gb/s raw throughput in each direction.

Two versions of the expansion system are available. Both complete systems include a x4 PCI Express host card, a seven slot PCI-X/PCI chassis and a 5-meter cable. PCIE-PCIX-7S has a standard height host card. PCIE-PCIX-7S-LP has a low profile host card.

The PCI Express host card extends the PCI Express interface to an external cable connection. Brought over a cable to the expansion chassis, the PCI Express interface connects to the Intel 41210 PCI Express to PCI-X bridge. This bridge chip functions as the source for two independent PCI-X buses on the expansion backplane. One bus connects to two 100 MHz PCI-X slots. The other bus connects to one 133 MHz PCI-X slot and a PCI-X to PCI-X bridge that sources four 66 MHz PCI-X slots.

Host cards and backplanes are available separately for applications requiring a different type of enclosure or for use as spares. The 19-inch, 4U rackmount chassis with backplane is also available separately.

PCI Express Expansion Systems are ideal for multimedia and test applications that are invested in PCI-X/PCI and migrating to PCI Express.



# PCIE-PCIX-7S PCI Express to PCI-X Expansion Systems

## Specifications

### PCI-X Interface

- 66/100/133MHz, 64-bit PCI-X v1.0b, 3.3V signaling
- 33/66MHz, 32/64-bit PCI Rev 2.3, 3.3V signaling

### PCI Express Interface

- PCI Express v1.0a, x4

### Cable Protocol

- PCI Express v1.0a, x4

### PCI-X Slots

- One 133 MHz PCI-X
- Two 100 MHz PCI-X
- Four 66 MHz PCI-X

### Cable

- 4x

### Power Requirements

- +3.3VDC @ 46.2W

### Enclosure

- WxHxD: 17x6.5x18 (in); 43.2x16.5x45.7 (cm)
- Faceplate: 19x7 (in); 48.26x17.78 (cm)
- Cooling fans: 2 (42.5 CFM)
- Power supply: 420W

### Environmental

- Operating temperature: 0 °C to +35 °C
- Storage temperature: -40 °C to +85 °C

## Ordering Information

### PCIE-PCIX-7S

#### Complete Systems:

PCIE-PCIX-7S PCI Express to PCI-X Expansion System with 4U 19-inch rackmount chassis with 7-slot backplane, standard height PCI Express x4 host card, a 5-meter InfiniBand cable, and a 5-meter Ethernet cable

#### PCIE-PCIX-7S-LP

PCI Express to PCI-X Expansion System with 4U 19-inch rackmount chassis with 7-slot backplane, low profile PCI Express x4 host card, a 5-meter InfiniBand cable, and a 5-meter Ethernet cable

#### Components:

PCIE-HSTPCI Express expansion x4 host card with standard front panel

PCIE-HST-LP PCI Express expansion x4 host card with low profile front panel

PCIE-BP-7S PCI-X 7-slot expansion backplane

PCIX-7S-CHASSIS PCI Express expansion chassis; 4U height, 19-inch rackmount; 7-slot backplane; integrated back plane

IB4X-3 3-meter 4x cable

IB4X-5 5-meter 4x cable

## About GE Fanuc Embedded Systems

GE Fanuc Embedded Systems is a leading global provider of embedded computing solutions for a wide range of industries and applications. Our comprehensive product offering includes many types of I/O, single board computers, high performance signal processors, fully integrated, rugged systems including flat panel displays, plus high speed networking and communications products. The company is headquartered in the U.S. and has design, manufacturing and support offices throughout the world. Whether you're looking for one of our standard products or a fully custom solution, GE Fanuc Embedded Systems has the breadth, experience and 24/7 support to deliver what you need. For more information, visit [www.gefanucembedded.com](http://www.gefanucembedded.com).

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## Additional Resources

For more information, please visit the GE Fanuc Embedded Systems web site at:

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

