

PCIe2-2710 - PCIe Gen2 Eight Slot Expansion System

- ♦ 80 Gb/s Host-to-Expansion System Bandwidth (PCle Gen2, x16)
- Eight Full Length PCIe Gen2 x16 Slots Supporting Double-Width GPUs
- ♦ 3240W/2180W N+1 Redundant Power Supply Option (5U Chassis)
- ♦ 1250W Power Supply Option (4U Chassis)
- Eight 6 + 2 Pin and/ or Eight 6 Pin PCle
 Power Connectors
- ♦ One or Three Meter Expansion Cable
- ♦ PCIe x16 Host-Bus to Expansion Cable Adpater





Cyclone Microsystems 2 Mountain View Drive Shelton, CT 06484 Call (203) 786-5536 information@cyclone.com

PCI Express Expansion System Data Sheet October 2011

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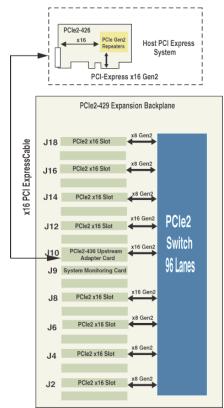
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Cyclone Microsystems' PCI Express Expansion System allows system developers to expand one host x16 Gen2 PCI Express slot to an expansion chassis with eight additional PCI Express Gen2 slots via a x16 (80 Gb/s) cable. The expansion chassis' non-blocking ninety-six lane PCI Express Gen2 switch enables the coupling of cost-effective enterprise host PCs with high bandwidth, peer-to-peer capable I/O subsystems.

The Eight Slot PCI Express Gen2 Expansion System includes a host bus cable adapter, an expansion cable, and an expansion backplane mounted in an industrial 19-inch chassis. The PCle2-426 PCI Express Gen2 x16 Host-Bus to Expansion Cable Adapter uses low latency bus repeaters to bridge from the host bus to a x16 expansion cable of either one or three meters. The cable connects to the Expansion Chassis and its PCle2-429 Switched Expansion Backplane.

The eight x16 PCle slots are double-width spacing, providing ample room for eight full length, double-wide PCle cards such as the latest generation of GPUs. Ample power for multiple GPUs is provided by either 3240W or 2180W N+1 redundant supplies housed in a 5U chassis. For lower-power requirements, a standard 1250W power supply option is available in a 4U chassis. All power supply configurations provide eight 6-pin PCle power connectors and eight 6+2 pin PCle power connectors. The 5U chassis provides an additional eight 6-pin power connectors.

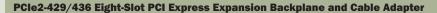




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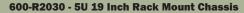
PCIe2-426 PCIe Gen2 x16 Host Bus to Expansion Cable Adapter

- PCI Express Gen2 x16 Host Interface
- PCI Express Bus Repeaters to x16 Expansion Cable
- · PCI Express Low Profile Card Format
- RoHS Compliant



- x16 Gen2 Upstream Port (80 Gb/s)
- Two PCle Gen2 x16 Slots
- Six PCle Gen2 x8 Slots (Mechanical x16)

- ATX and EPS +12V PC Power Connectors
- RoHS Compliant
- Regulatory Compliance: UL Safety, FCC, CE Regulatory Certifications (Pending)



- 3240 or 2180 Watt N+1 Redundant Power Supply
- 20 Full Length PCI Express ports
- Four Hot Swappable 90mm Fans (77 CFM Each)
- Eight 5.25" and One 3.5" External Drive Bay

- 19" x 8.75" x 27"
- 80 lbs. Weight
- · Locking Drive Bay Door
- Eight 6 pin and eight 6+2 pin PCle Power Connectors

600-R2051 - 4U 19 Inch Rack Mount Enclosure

- 1250 Watt Power Supply
- 20 Full Length PCI Express Ports
- Four Hot Swappable 90mm Fans (77 CFM Each)
- Three 5.25" and One 3.5" Internal Drive Bays

- 19" x 7" x 27"
- 50 lbs Weight
- Locking Drive Bay Door
- Eight 6+2 pin PCle Power Connectors

| Environmental | PCIe2-426 | PCIe2-429/436 | |
|----------------------------|---------------------------|---|--|
| | | | |
| hysical Dimensions | PCI-Express Card | Custom Motherboard 16.1" x 10.5" | |
| | Short Length | ATX 24 pin Power Supply Connector 28 pin EPS Connectors | |
| | 5.6" x 2.5" | | |
| Operating Temperatures | 0 to 55 Degrees Celsius | 0 to 55 Degrees Celsius | |
| Relative Humidity | 0 - 95% | 0 - 95% | |
| Storage Temperatures | -55 to 125 Degree Celsius | -55 to 125 Degree Celsius | |
| Power Requirements (Watts) | | | |
| 3.3V Typical 1.09A | | 0.65A | |
| Maximum | 1.60A | 15.65A | |
| +5V Typical | _ | 0.20A | |
| Maximum | _ | 0.20A | |
| +12V-1 Typical | OA | _ | |
| Maximum | OA | 10.80A | |
| +12V-2 Typical | _ | <u>-</u> | |
| Maximum | - | 16.2A | |
| +12V-3 Typical – | | 9.00A | |
| Maximum - | | 17.00A | |

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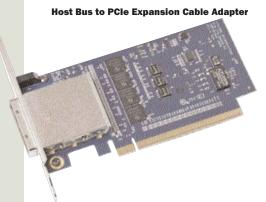


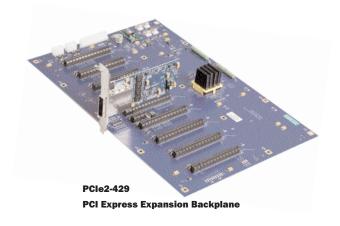


PCIe2-2710 - PCIe Gen2 Eight Slot Expansion System

PCIe2-2710 Component Boards

PCIe2-426





PCI Express Expansion Chassis







PCIe2-2710 Eight Slot Expansion System Ordering Information

One Meter x16 PCle Expansion Cable

3240W N+1 Redundant Power Supply

5U Rackmont Chassis Chassis

| 600-2710-1-12-S | PCI Express Expansion System, 1250 Watt/One Meter x16 Cable including | 600-2710-3-12-S | PCI Express Expansion System, 1250 Watt/Three x16 Meter Cable Including |
|--|---|-----------------|--|
| PCle2-426 | PCI Express Host Bus to Expansion Cable Adapter | PCle2-426 | PCI Express Host Bus to Expansion Cable Adapter |
| 530-R2040 | 530-R2040 One Meter x16 PCle Expansion Cable | | Three Meter x16 PCle Expansion Cable |
| PCIe2-429/436 | PCle2-429/436 PCl Express Expansion Backplane | | PCI Express Expansion Backplane |
| 600-R2051 4U Rackmonut Expansion Chassis w/1250W | | 600-R2051 | 4U Rackmonut Expansion Chassis w/1250W |
| | Power Supply | | Power Supply |
| 600-2710-1-21-S | PCI Express Expansion System, 2180 Watt/One Meter x16 Cable Including: | 600-2710-3-21-S | PCI Express Expansion System, 2180 Watt/Three Meter x16 Cable Including: |
| PCle2-426 | PCI Express Host Bus to Expansion Cable Adapter | PCIe2-426 | PCI Express Host Bus to Expansion Cable Adapter |
| 530-R2040 | One Meter x16 PCle Expansion Cable | 530-R2041 | Three Meter x16 PCle Expansion Cable |
| PCle2-429/436 | PCI Express Expansion Backplane | PCle2-429/436 | PCI Express Expansion Backplane |
| 600-R2030 | 5U Rackmont Chassis | 600-R2030 | 5U Rackmont Chassis |
| 370-R1520 | 2180W N+1 Redundant Power Supply | 370-R1520 | 2180W N+1 Redundant Power Supply |
| 600-27101-32-S | PCI Express Expansion System, 3240 Watt/One Meter x16 Cable Including: | 600-2710-3-32-S | PCI Express Expansion System, 3240 Watt/Three Meter Cable Including: |
| PCIe2-426 | PCI Express Host Bus to Expansion Cable Adapter | PCIe2-426 | PCI Express Host Bus to Expansion Cable Adapter |

530-R2041

600-R2030

370-R1521

PCle2-429/436

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PCle2-429/436 PCl Express Expansion Backplane

530-R2040

600-R2030

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Three Meter x16 PCle Expansion Cable

3240W N+1 Redundant Power Supply

PCI Express Expansion Backplane

5U Rackmont Chassis