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CYCLONE Microsystems
Intelligent I/O Controllers

PCIe2-2709 - PCIe Gen2 Sixteen Slot Expansion System

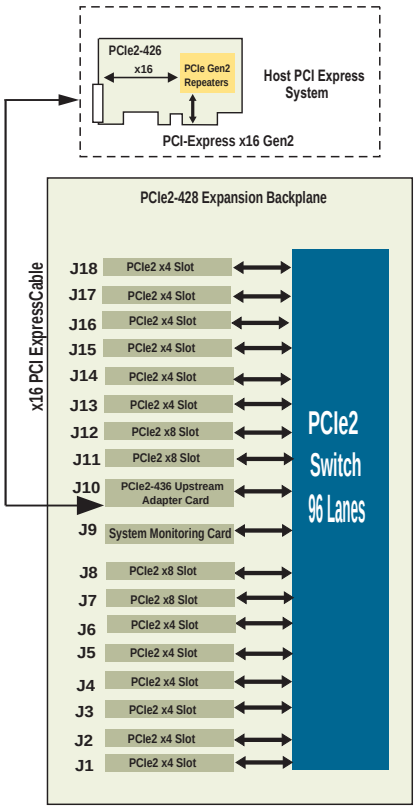
- 80 Gb/s Host-to-Expansion System Bandwidth (PCIe Gen2, x16)
- Eight Full Length PCIe Gen2 x16 Slots Supporting Double-Width GPUs
- 3240W/2180W N+1 Redundant Power Supply Option (5U Chassis)
- 1200W Power Supply Option (4U Chassis)
- Eight 6 + 2 Pin and/or Eight 6 Pin PCIe Power Connectors
- One or Three Meter Expansion Cable
- PCIe x16 Host-Bus to Expansion Cable Adpater



Cyclone Microsystems' PCI Express Expansion System allows system developers to expand one host x16 Gen2 PCI Express slot to an expansion chassis with sixteen 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 sixteen 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 PCIe2-426 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 PCIe2-428 Switched Expansion Backplane.

The sixteen x16 PCIe slots are configured as four x8 and twelve x4, and utilize open back connectors to facilitate PCI Express down-shifting.. Ample power is provided by either 3240W or 2180W N+1 redundant supplies housed in a 5U chassis. For lower-power requirements, a standard 1200W power supply option is available in a 4U chassis. All power supply configurations provide eight 6 +2 pin PCIe power connectors. The 5U chassis provides an additional eight 6-pin power connectors.



PCI EXPRESS

RoHS Compliant

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Hamden, CT 06514
Call (203) 786-5536
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PCI Express Expansion System Data Sheet October 2017

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PCIe2-2709 - PCIe Gen2 Sixteen Slot Expansion System

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

PCIe2-428/436 Eight-Slot PCI Express Expansion Backplane and Cable Adapter

- x16 Gen2 Upstream Port (80 Gb/s)
- Four PCIe Gen2 x8 Slots
- Twelve PCIe Gen2 x4 Slots
- ATX and EPS +12V PC Power Connectors
- RoHS Compliant
- Regulatory Compliance: UL Safety, FCC, CE Regulatory Certifications (Pending)

600-R2030 - 5U 19 Inch Rack Mount Chassis

- 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 PCIe Power Connectors

600-2051 - 4U 19 Inch Rack Mount Enclosure

- 1200 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 PCIe Power Connectors

Environmental	PCIe2-426	PCIe2-428/436
Physical Dimensions	PCI-Express Card Short Length 5.6” x 2.5”	Custom Motherboard 16.1” x 10.5” ATX 24 pin Power Supply Connector 28 pin EPS Connectors
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	0A	-
Maximum	0A	10.80A
+12V-2 Typical	–	–
Maximum	–	16.2A
+12V-3 Typical	–	9.00A
Maximum	–	17.00A

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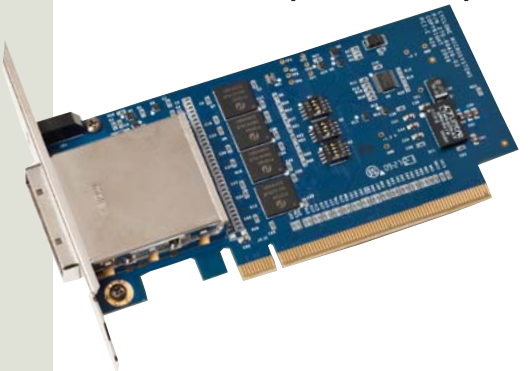
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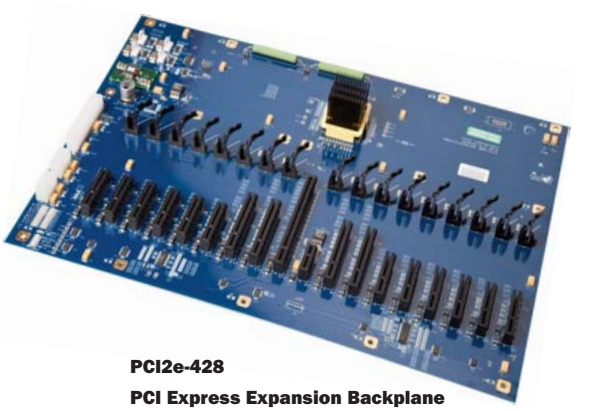
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PCIe2-2709 - PCIe Gen2 Sixteen Slot Expansion System

PCIe2-2709 Component Boards

PCI2e-426
Host Bus to PCIe Expansion Cable Adapter





PCI2e-428
PCI Express Expansion Backplane

PCI Express Expansion Chassis



PCIe2-2709 Sixteen Slot Expansion System Ordering Information

600-2709-1-12-S	PCI Express Expansion System, 1200 Watt/One Meter x16 Cable including:	**600-2709-3-12-S**	PCI Express Expansion System, 1200 Watt/Three x16 Meter Cable Including
PCIe2-426	PCI Express Host Bus to Expansion Cable Adapter	PCIe2-426	PCI Express Host Bus to Expansion Cable Adapter
530-R2040	One Meter x16 PCIe Expansion Cable	530-R2041	Three Meter x16 PCIe Expansion Cable
PCIe2-428/436	PCI Express Expansion Backplane	PCIe2-428/436	PCI Express Expansion Backplane
600-R2051	4U Rackmount Expansion Chassis, 1200W Power Supply	600-R2051	4U Rackmount Expansion Chassis, 1200 W Power Supply
600-2709-1-21-S	PCI Express Expansion System, 2180 Watt/One Meter x16 Cable Including:	**600-2709-3-21-S**	PCI Express Expansion System, 2180 Watt/Three Meter x16 Cable Including:
PCIe2-426	PCI Express Host Bus to Expansion Cable Adapter	PCIe2-426	PCI Express Host Bus to Expansion Cable Adapter
530-R2040	One Meter x16 PCIe Expansion Cable	530-R2041	Three Meter x16 PCIe Expansion Cable
PCIe2-428/436	PCI Express Expansion Backplane	PCIe2-428/436	PCI Express Expansion Backplane
600-R2030	5U Rackmount Chassis	600-R2030	5U Rackmount Chassis
370-R1520	2180W N+1 Redundant Power Supply	370-R1520	2180W N+1 Redundant Power Supply
600-2709-1-32-S	PCI Express Expansion System, 3240 Watt/One Meter x16 Cable Including:	**600-2709-3-32-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-R2040	One Meter x16 PCIe Expansion Cable	530-R2041	Three Meter x16 PCIe Expansion Cable
PCIe2-428/436	PCI Express Expansion Backplane	PCIe2-428/436	PCI Express Expansion Backplane
600-R2030	5U Rackmount Chassis Chassis	600-R2030	5U Rackmount Chassis
370-R1521	3240W N+1 Redundant Power Supply	370-R1521	3240W N+1 Redundant Power Supply

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