

PCIe2-2709 - PCIe Gen2 Sixteen 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)
- 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





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PCI Express Expansion System Data Sheet October 2017

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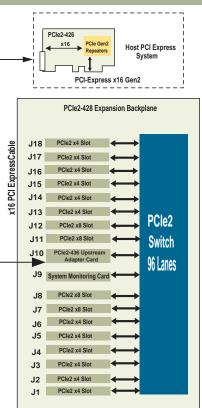
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Cyclone Microsystems' PCI Express Expansion System allows system developers to expand one host x16 Gen2 PCI Express slot to an expansion chassis with sixteen additional PCI Express Gen2 slots via a x16 (80 Gb/s) cable. The expansion chassis' non-blocking 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.





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



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RoHS Compliant

 RoHS Compliant PCIe2-428/436 Eight-Slot PCI Express Expansion Backplane and Cable Adapter • x16 Gen2 Upstream Port (80 Gb/s) ATX and EPS +12V PC Power Connectors • Four PCIe Gen2 x8 Slots · RoHS Compliant • Twelve PCIe Gen2 x4 Slots Regulatory Compliance: UL Safety, FCC, CE Regulatory Certifications (Pending) 600-R2030 - 5U 19 Inch Rack Mount Chassis • 19" x 8.75" x 27" 3240 or 2180 Watt N+1 Redundant Power Supply · 80 lbs. Weight • 20 Full Length PCI Express ports · Locking Drive Bay Door • Four Hot Swappable 90mm Fans (77 CFM Each) • Eight 6 pin and eight 6+2 pin PCIe Power Connectors · Eight 5.25" and One 3.5" External Drive Bay 600-2051 - 4U 19 Inch Rack Mount Enclosure • 1200 Watt Power Supply • 19" x 7" x 27" • 50 lbs Weight • 20 Full Length PCI Express Ports · Locking Drive Bay Door • Four Hot Swappable 90mm Fans (77 CFM Each) • Three 5.25" and One 3.5" Internal Drive Bays • Eight 6+2 pin PCIe Power Connectors

Environmental	PCIe2-426	PCIe2-428/436		
Physical Dimensions	PCI-Express Card Short Length	Custom Motherboard 16.1" x 10.5" ATX 24 pin Power Supply Connector 28 pin EPS Connectors		
	5.6" x 2.5"			
perating 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)		0.654		
+3.3V Typical Maximum	1.09A 1.60A	15.65A		
+5V Typical	_	0.20A 0.20A		
Maximum	-	0.200		
+12V-1 Typical	OA	-		
Maximum	OA	10.80A		
+12V-2 Typical	_	-		
Maximum	_	16.2A		
+12V-3 Typical	-	9.00A		
Maximum -		17.00A		

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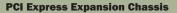
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PCIe2-2709 - PCIe Gen2 Sixteen Slot Expansion System

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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	PCle2-426	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	PCle2-428/436	PCI Express Expansion Backplane
600-R2051	4U Rackmount Expansion Chassis, 1200W	600-R2051	4U Rackmount Expansion Chassis, 1200 W
	Power Supply		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	PCle2-426	PCI Express Host Bus to Expansion Cable Adapter
530-R2040	One Meter x16 PCIe Expansion Cable	530-R2041	Three Meter x16 PCIe Expansion Cable
PCle2-428/436	PCI Express Expansion Backplane	PCle2-428/436	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:
PCle2-426	PCI Express Host Bus to Expansion Cable Adapter	PCle2-426	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	PCle2-428/436	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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