

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)
- 1200W Power
 Supply Option
 (4U Chassis)
- Eight 6 + 2 Pin and/ or Eight 6 Pin PCIe Power Connectors
- One or Three Meter Expansion Cable
- PCle x16 Host-Bus to Expansion
 Cable Adpater





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PCI Express Expansion System Data Sheet October 2017

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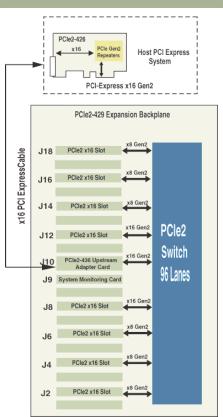
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Cyclone Microsystems' PCI Express Expansion System allows system developers to expand one host x16 Gen2 PCI Express slot to an expansion chassis with eight additional PCI Express Gen2 slots via a x16 (80 Gb/s) cable. The expansion chassis' non-blocking ninetysix 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 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 PCIe2-429 Switched Expansion Backolane.

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 1200W 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.





PCIe2-2710 - PCIe Gen2 Eight 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

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- PCIe2-429/436 Eight-Slot PCI Express Expansion Backplane and Cable Adapter
- x16 Gen2 Upstream Port (80 Gb/s)
- Two PCIe Gen2 x16 Slots
- Six PCIe Gen2 x8 Slots (Mechanical x16)
- 600-R2030 5U 19 Inch Rack Mount Chassis • 3240 or 2180 Watt N+1 Redundant Power Supply

• 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

· RoHS Compliant

Locking Drive Bay Door

Certifications (Pending)

• Eight 6 pin and eight 6+2 pin PCIe Power Connectors

Regulatory Compliance: UL Safety, FCC, CE Regulatory

600-R2051 - 4U 19 Inch Rack Mount Enclosure

- 1200 Watt Power Supply
- 20 Full Length PCI Express Ports

• 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

ATX and EPS +12V PC Power Connectors

Environmental	PCIe2-426	PCIe2-429/436		
Physical 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	e 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	QA			
Maximum	OA	-		
	UA	10.80A		
+12V-2 Typical	-	-		
Maximum	-	16.2A		
+12V-3 Typical -		9.00A		
Maximum –		17.00A		

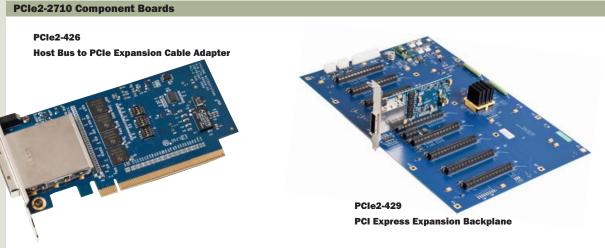
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PCI Express Expansion Chassis







PCIe2-2710 Eight Slot Expansion System Ordering Information

	600-2710-1-12-S	PCI Express Expansion System, 1200 Watt/One Meter x16 Cable including	600-2710-3-12-S	PCI Express Expansion System, 1200 Watt/Three x16 Meter Cable Including
	PCle2-426 530-R2040 PCle2-429/436 600-R2051	PCI Express Host Bus to Expansion Cable Adapter One Meter x16 PCIe Expansion Cable PCI Express Expansion Backplane 4U Rackmonut Expansion Chassis w/1250W Power Supply	PCIe2-426 530-R2041 PCIe2-429/436 600-R2051	PCI Express Host Bus to Expansion Cable Adapter Three Meter x16 PCIe Expansion Cable PCI Express Expansion Backplane 4U Rackmonut Expansion Chassis w/1250W 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:
	PCle2-426 530-R2040 PCle2-429/436 600-R2030 370-R1520	PCI Express Host Bus to Expansion Cable Adapter One Meter x16 PCIe Expansion Cable PCI Express Expansion Backplane 5U Rackmont Chassis 2180W N+1 Redundant Power Supply	PCIe2-426 530-R2041 PCIe2-429/436 600-R2030 370-R1520	PCI Express Host Bus to Expansion Cable Adapter Three Meter x16 PCIe Expansion Cable PCI Express Expansion Backplane 5U Rackmont Chassis 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:
1	PCle2-426 530-R2040 PCle2-429/436 600-R2030 370-R1521	PCI Express Host Bus to Expansion Cable Adapter One Meter x16 PCIe Expansion Cable PCI Express Expansion Backplane 5U Rackmont Chassis Chassis 3240W N+1 Redundant Power Supply	PCIe2-426 530-R2041 PCIe2-429/436 600-R2030 370-R1521	PCI Express Host Bus to Expansion Cable Adapter Three Meter x16 PCIe Expansion Cable PCI Express Expansion Backplane 5U Rackmont Chassis 3240W N+1 Redundant Power Supply

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