

PCIe2-2711 - PCIe Gen2 Eight Slot Expansion System

- 160 Gb/s Host-to-Expansion System Bandwidth (PCle Gen2, x16)
- Dual x16 Cable Interface
- 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 Eight 6 Pin PCIe
 Power Connectors
- One or Three Meter Expansion Cable
- Two PCle x16 Host-Bus to Expansion Cable Adapters





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PCI Express Expansion System Data Sheet October 2012

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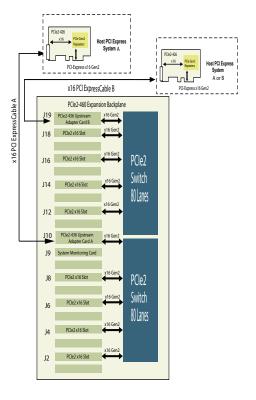
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Cyclone Microsystems' PCle2-2711 Dual Host, Eight Slot PCl Express GPU Expansion System allows system developers to expand two host PCl Express Gen2 slot to eight additional PCl Express Gen2 slots via a Gen2 x16 (80 Gb/s) PCl Express cable. Alternatively, the two cables can be connected to separate host PCs, providing four x16 PCle expansion slots per host PC. With extensive processing power now availabel on board level GPUs, the PCle2-2711 supports the integration of up to eight double-width PCle Gen2 boards like NVidia's Tesla C2050/C2070 GPU Computing Engine.

The PCle2-2711 Eight slot PCle Gen2 GPU Express Expansion System is a turnkey system which includes a PCle2-426 Host Bus to Expansion Cable Adapter, two x16 expansion cables and the PCle2-460 eight slot expansion backplane mounted in an industrial 19-inch chassis. The system supports expansion cable lengths of either one or three meters.

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 +2 pin PCle power connectors. The 5U chassis provides an additional eight 6-pin PCle power connectors to meet the additional external power requirements of PCle Gen2 GPUs and graphics cards.





PCIe2-2711 - 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



PCIe2-460/436 Eight-Slot PCI Express Expansion Backplane and Cable Adapter

- Dual x16 Gen2 Upstream Port (80 Gb/s each)
- Eight PCIe Gen2 x16 Slots
- Support for Dual PC Hosts

• 20 Full Length PCI Express ports

RoHS Compliant

ATX and EPS +12V PC Power Connectors

- RoHS
- 600-R2030 5U 19 Inch Rack Mount Chassis • 3240 or 2180 Watt N+1 Redundant Power Supply
- 19" x 8.75" x 27"
 - · 80 lbs. Weight
 - · Locking Drive Bay Door
 - Eight 6 pin and eight 6+2 pin PCIe Power Connectors

600-2050 - 4U 19 Inch Rack Mount Enclosure

- 1250 Watt Power Supply
- 20 Full Length PCI Express Ports
- Four Hot Swappable 90mm Fans (77 CFM Each)

• Four Hot Swappable 90mm Fans (77 CFM Each)

· Eight 5.25" and One 3.5" External Drive Bay

• Three 5.25" and One 3.5" Internal Drive Bays

- 19" x 7" x 27" 50 lbs Weight
- 50 lbs weight
- Locking Drive Bay Door
- Eight 6+2 pin PCle 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	0 - 95%	0 - 95%
Storage Temperatures	-55 to 125 Degree Celsius	-55 to 125 Degree Celsius
Power Requirements (Watts)		
+3.3V Typical	1.09A	2.5A
Maximum	1.60A	3.0A + 24A
+5V Typical	-	0.5A
Maximum	-	1A
+12V-1 Typical	QA	1A
Maximum	OA	2A +44A

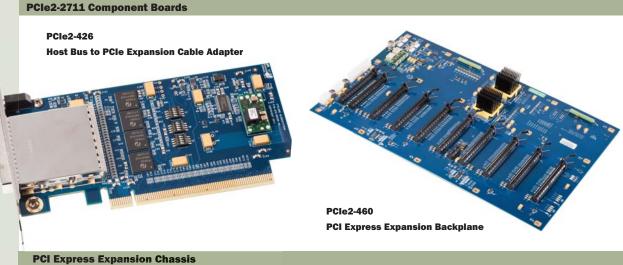
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PCIe2-2711 Eight Slot Expansion System Ordering Information

Cyclone Part Numbers	Options
600-2711-QPPXYZ	
Q: Cable Length Option	1: 1m Cable 3: 3m Cable
PP: Power supply/Chassis Option	12: 1250W ATX Power Supply, 4U Chassis 21: 2180W N+1 Redundant Power Supply, 5U Chassis 32: 3240W N+1 Redundant Power Supply, 5U Chassis
X: Host Bus Adapter Panel Height Option	S: Standard Profile Panel L: Low Profile Panel
Y: Monitoring Board Option	M: Cyclone PCIe Monitoring Board Installed O: No Monitoring Board
Z: PCIe Cable Width Option	A: x16 PCIe Cabling (Includes PCIe2-426, PCIe2-436 and x16 Cable) B: x8 PCIe Cabling (Includes PCIe2-425, PCIe2-439 and x8 Cable)

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