

EXTreme PowerEdge Plus Card Edge Connectors >

As data centers consume massive amounts of energy, engineers are tasked with finding ways to enhance energy efficiency without compromising performance. EXTreme PowerEdge Plus Card Edge Connectors revolutionize data center power management by affording high current density and low-profile housing. This high-power card edge connector also meets the Modular-Common Redundant Power Supply (M-CRPS) mechanical standards and exceeds electrical requirements, offering customers extra performance margins for their designs. Experience superior efficiency and reliability with this state-of-the-art card edge connector technology.

ADVANTAGES AND FEATURES

Provides lower contact resistance, lower power loss and higher reliability

Each power circuit has eight independent points of contact (mating points to the PCB) ensuring multiple paths for current flow. This decreases overall contact resistance, thereby reducing energy inefficiencies and heat generation.

Meets M-CRPS mechanical requirements and exceed the electrical requirements

These connectors feature a 7.62mm pitch for power circuits and a 2.54mm pitch for signal circuits, ensuring compliance with M-CRPS standards to optimize efficiency and minimize the risk of downtime caused by power failures.

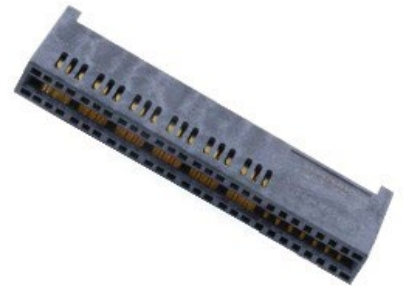
Current	47.0A/circuit for 12-circuit connector
Voltage	Power-100V; Signal-60V
Durability	200 mating cycles
Operating Temperatures	-55 to +105°C

Higher current density than any edgecard connector in the market

These connectors use an innovative dual-layer terminal design delivering greater than 3,300W at 12V. Customers benefit by not having to compromise on size or efficiency.

Avoids overheating system

The low-profile housing allows for improved airflow enhancing system cooling and helping prevent thermal damage.



MARKETS AND APPLICATIONS

Data center

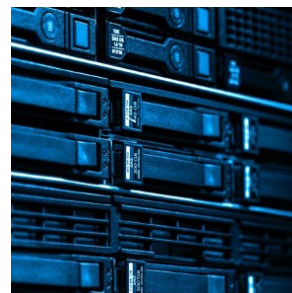
Power shelves
Power supplies

Telecommunications/Networking

Servers
Storage devices
Switches



Power Shelves



Servers

EXTreme PowerEdge Plus Card Edge Connectors >

SPECIFICATIONS

Reference Information

Packaging: Tape and reel
UL File Number: E29179
CSA File Number: 019980_A_000
Designed in: millimeters
RoHs Compliant: Yes
Low Halogen: Yes
PFAS Compliant: Yes

Physical

Housing: LCP, UL94 V0
Terminals: High-performance copper alloy
Plating: Contact area gold, tails tin
Mating PCB Thickness: 1.57mm
Operating Temperature: -55 to +105°C

Electrical

Voltage: Power—100V; Signal—60V
Current: Power—47.0A/circuit
(12-power circuit connector)
Contact Resistance (max.): 0.6 milliohm

Mechanical

Mate Force of a 12-Power and 14-signal
circuit connector (max.): 140N
Unmate Force of a 12-Power and 14-signal
circuit connector(min.): 10N
Durability: 200 mating cycles

ORDERING INFORMATION

Product Family	Series Number	Orientation	Power Circuits	Signal Circuits	Mounting Styles
EXTreme PowerEdge Plus Card Edge Connectors	<u>219476-0000</u>	Right Angle	12	14	solder tail
	<u>219476-0100</u>				

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