



Power Card Edge Product Presentation



Product Description

- The Power Card Edge connector is a cost-effective connector system that can be used for DC power output from embedded AC/DC power supplies or for power distribution between boards within an enclosure.
- The Connector range includes options for Right-angle, vertical, or straddle-mount solder termination.



Target Markets / Applications



- Servers
- Storage
- Telecommunications
- Datacom / Networking

The connectors' low profiles are ideal for use in enterprise data or communications equipment, particularly in servers and external storage system

The width of the Power Card edge connector body is 9mm or less, making it well- suited for use in 1 U rack-mount servers or on power distribution loads inside 1U redundant power supply (RPS) assemblies.

Electrical performance



- Current Rating: 7A current measured at 30 °C temperature rise in still air
- Insulation Resistance: 5000M Ω Min. for power contact
- Dielectric Withstanding Voltage: 1000V/RMS 60hz for Power contact
- LLCR:
 - Right Angle 20~35 milliohms
 - Straddle Mount <20 milliohms
 - Vertical < 20 milliohms

Mechanical performance



- Durability: 200 mating/un-mating cycles

- Mating Force:
 - Vertical & Straddle mount 8.0Kgf maximum
 - Right Angle: 13.62Kgf maximum

- Temperature Range: -5 °C to +105 °C

Features & Benefits



- One-piece card edge design provides cost-effective power delivery with capacity for up to 7A per power contact
- Narrow connector body enables use in 1U servers and power supplies
- Low-profile design helps maximize airflow for system cooling
- Integrated connector design simplifies board assembly
- RoHS compatible design enables compliance with environmental regulations

Features & Benefits



- Option for integration of signals and power in a single right-angle connector supports both power control and power distribution
- Right-angle product range includes versions with molded posts or metal fork-locks for retention

Right Angle Solutions

Description

5P+12S+5P

7P+12S+7P

10P+12S+10P

14P+12S+14P

2x14, 2x17, 2x24, 2x25, 2x28, 2x29, 2x31, 2x32 P

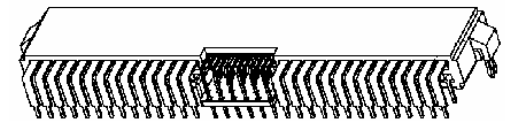
Base Number

10028886

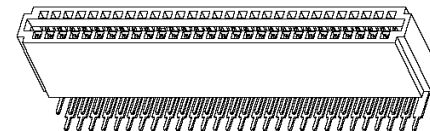
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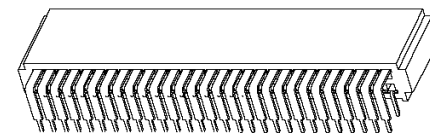
With metal fork-locks



10028886



10035388



Use the base numbers to reference the product drawings to obtain detailed dimensions and complete P/Ns

Features & Benefits



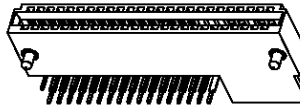
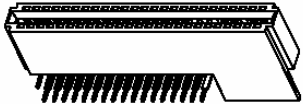
Right Angle Solutions

Description

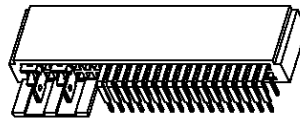
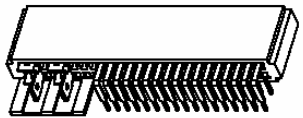
Base Number

With AC Power port

10055090



With Molded
post



- An optional AC cable port enables a cable pass-through solution

Use the base numbers to reference the product drawings to obtain detailed dimensions and complete P/Ns

Features & Benefits

Vertical Solutions

Description

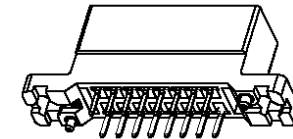
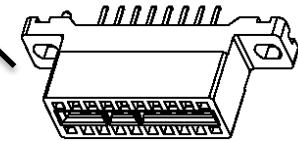
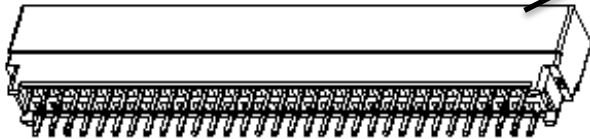
2x19,2x32,2x35 P

2x8 P

Base Number

10046971

10046972



With mounting ears

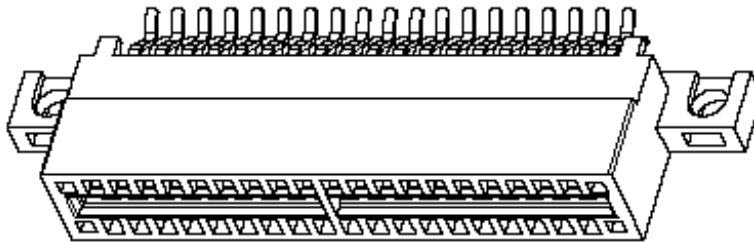
Use the base numbers to reference the product drawings to obtain detailed dimensions and complete P/Ns

Features & Benefits

Straddle - Mount Solutions

Description
2x19, 2x23 P

Base Number
10034908



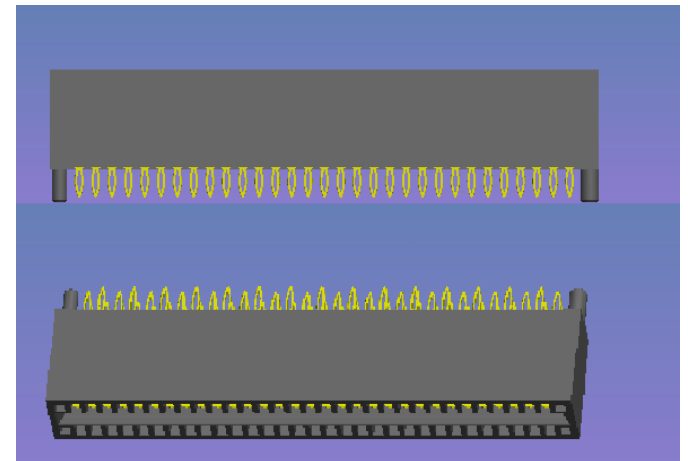
Straddle-mount connectors feature mounting ears for secure PCB attachment

Use the base numbers to reference the product drawings to obtain detailed dimensions and complete P/Ns

Features & Benefits



- Press Fit Power Card Edge
- 2x31 P
- Current Rating: 7A current measured at 30 °C temperature rise in still air



Approvals and certifications

Approved certifications

- UL
- CSA
- TUV





THANK YOU



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