



1.50mm (.059") Pitch Plateau HS Dock™ PG with 2 Power and 2 Guide Modules High-Speed Docking Connectors

75475 Right-Angle Plug
75476 Right-Angle Receptacle

Achieve Higher Power Levels and Improved Guidance Performance with the Next Generation of Plateau HS Dock Assemblies

These high-speed docking modules take Molex's Plateau Technology™ to the next level. The new connectors can pass up to 20.0A per blade to meet higher current requirements. Guide modules are reinforced in the PCB to provide a robust guidance for blind-mating. A stiffener bar is used for alignment and locks all of the modules together. This ensures co-planarity between modules and maintains a strong retention of the power modules and guide pins to the PCB.

Plateau HS Dock PG connectors retain all of the standard features of the Plateau HS Dock connectors. These fully shielded connectors have a robust contact design that features 4 levels of mating (first-mate, last-break), with a compliant pin for the PCB interface. With a low mating force, guide features, various offset heights and the ability to mate in a standard or

inverted position, these high-speed docking connector systems are ideal for PCB blade (option card) to PCB mid-plane (host) applications. The Plateau HS Dock product family also includes vertical plug and interposer- assembly products for further application design flexibility.

Features and Benefits

- Stiffener bar combines power, guide and signal modules into 1 assembly to configure to customer specific design applications
- Power blade provides up to 20.0A which is capable of providing high current for power requirements on the PCB
- Robust guide posts with long lead-in length provide blind-mating capability and increased guidance for proper mating



- Gold (Au)-plated plastic shield signal pins ensure excellent signal integrity in crosstalk and impedance matching
- Press-fit pins assure excellent retention to the PCB

SPECIFICATIONS

Reference Information

Packaging: Tray
 UL File No.: E29179
 CSA File No.: 1373502
 Designed In: Millimeters

Mechanical

Insertion Force to PCB:
 35N (7.87 lbf) max. per compliant pin
 Retention Force to PCB:
 9N (2.02 lbf) min. per compliant pin
 Mating Force: 80N (17.98 lbf) max.
 Unmating Force: 20N (4.50 lbf) min.
 Durability: 100 cycles

Electrical

HS Dock Signals
 Voltage: 12V DC
 Current: 2.7A per contact
 Contact Resistance: 30 milliohms max.
 Dielectric Withstanding Voltage: 500V AC
 Insulation Resistance: 1,000 Megohms min.

Power Modules

Voltage: 12V DC
 Current: 20.0A per contact blade
 Contact Resistance: 30 milliohms max.
 Dielectric Withstanding Voltage: 500V AC
 Insulation Resistance: 1,000 Megohms min.

Physical

Housing: Liquid crystal polymer, UL 94V-0
 Contact: Copper (Cu) Alloy
 Plating:
 Contact Area — Selective Gold (Au) 30u" min.
 Tail Area — Tin (Sn)
 Underplating — Nickel (Ni)
 PCB Thickness: 1.80 mm (.071")
 Operating Temperature: -20 to +85° C

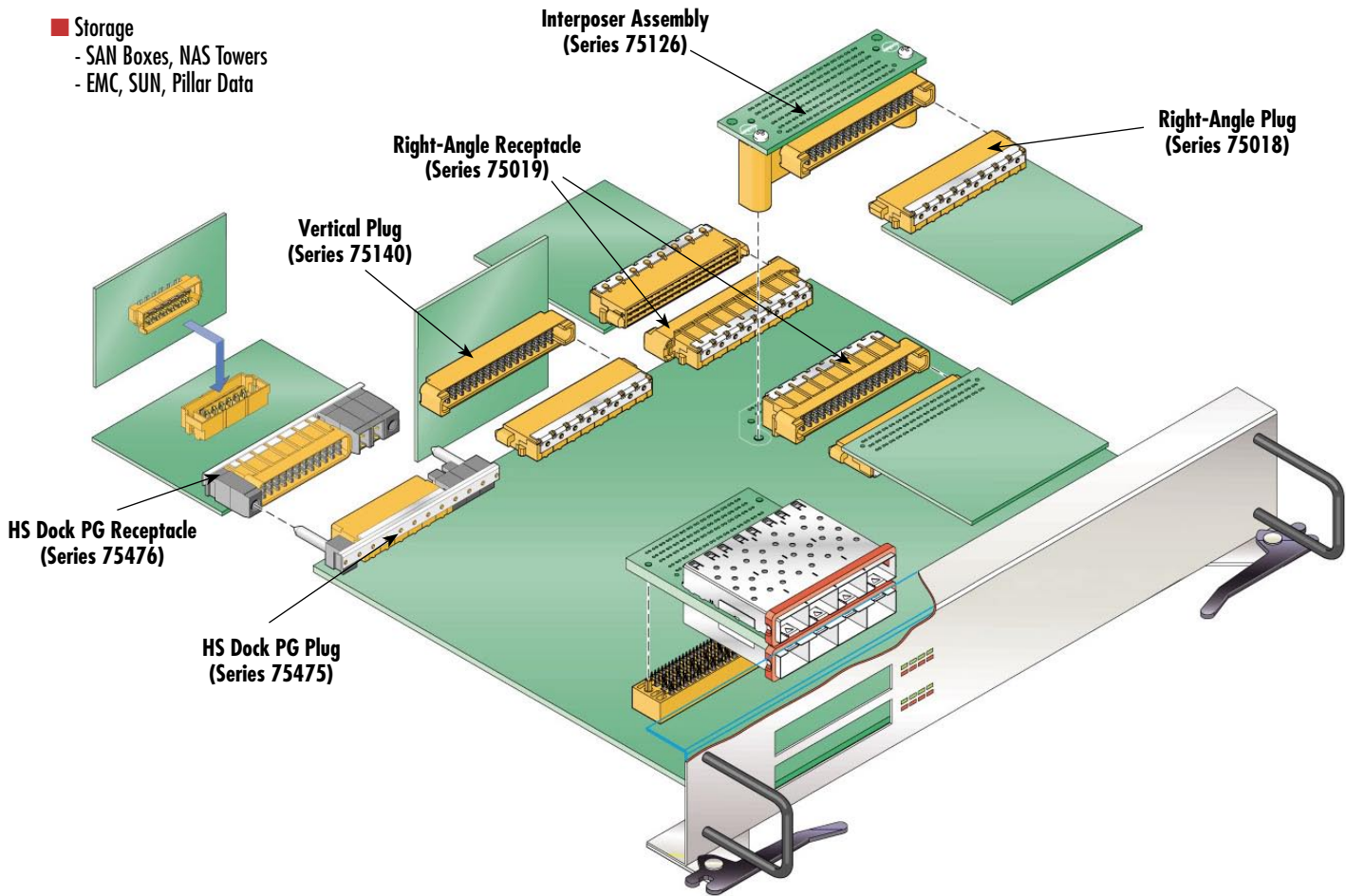
APPLICATIONS



1.50mm (.059") Pitch Plateau HS Dock™ PG with 2 Power and 2 Guide Modules High-Speed Docking Connectors

- Telecommunication Equipment
 - Hubs, Routers and Switches
 - Add-in Cards To Mid-Plane or Host PCB
 - Alcatel, Brocade, Cisco, Force 10
- Computer Servers
 - Enterprise and Blade Servers
 - Dell, HP, IBM
- Storage
 - SAN Boxes, NAS Towers
 - EMC, SUN, Pillar Data

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ORDERING INFORMATION

Order No.	Component	Module Style	Circuits
75475-1004	Plug	2 Power, 2 Guide	72
75476-1004	Receptacle		

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