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0.80mm (.031") Pitch iPass Integrated Dual-Port 26-Circuit Stacked Connector

75758 Integrated Dual Port Connector

Molex's iPass integrated dual-port 26-circuit stacked connector integrates two individual-ports into a single assembly and accepts standard external cables

The iPass Interconnect System is ideal for the growing server-storage market. The dual- port 26-circuit stacked connector is the latest addition to the existing iPass product family. Each port on this connector includes eight differential pairs, creating four lanes, each capable of 12 Gbps. Total bandwidth enabled through the dual-port assembly is 96 Gbps.

Input/Output (I/O) bandwidth requirements are increasing exponentially with evolving new standards. The iPass dual-port connector will enable system implementers to meet these requirements.

The currently available solution requires a belly-to-belly implementation, which may not be an option for systems with boards fixed to one side of the chassis. The new stacked dual-port connector makes it possible to double the I/O bandwidth without a mechanical redesign of the system enclosures.

Molex's iPass dual-port stacked connector accepts standard external iPass cables, for standards such as Serial Attach SCSI (SAS), Serial ATA (SATA), Serial Rapid I/O (SRIO), and Ethernet. For more information on iPass products, visit www.molex.com/product/ipass.html.

Features and Benefits

■ Doubles the port density and prevents increase in "beachfront" compared to the current single-port product

■ Integrated press-fit connector assembly with cage provides one-step placement to PCB

■ Robust guide pins located on each side of the cage ensures assembly alignment to PCB

■ Four integral screw-mount hold downs applied from bottom of PCB provide optimal retention of die-cast assembly to PCB without taking up additional board real estate

■ Front elastomeric EMI gasket provides excellent EMI protection to the system face plate

■ Four ground-pad alleys are located at the rear of the die cast assembly to provide ease of routing on the top layer of the PCB

iPass Integrated Dual Port Connector (Series 75758)

SPECIFICATIONS

Reference Information
Packaging: Trays
UL File No.: Pending
CSA File No.: Pending
Mates With: Series 74547 Cable Assembly
Designed In: Millimeters

Electrical
Voltage: 30V
Current: 0.5A
Dielectric Withstanding Voltage: 500V DC
Insulation Resistance: 1000 Megohms

Mechanical
Insertion Force to PCB: 25N (5.62 lb) per pin max.
Mating Force: 82.5N (18.55 lb) max.
Unmating Force: 26.5N (5.96 lb) max.
Durability: 250 cycles

Physical
Housing: LCP
Contact: Copper (Cu) Alloy
Plating:
    Contact Area - 0.76µm min Gold (Au)
    Compliant Area - 0.76µm min Tin/Lead (Sn/Pb)
    Under plating - 2.54µm min Nickel (Ni)
PCB Thickness: 1.57mm (.062") min
RoHS compliant: Yes
Operating Temperature: -40 to +80°C

iPass Integrated Dual Port Connector mating to two Mini SAS 4x Cables (Series 74547)

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0.80mm (.031") Pitch
iPass Integrated Dual-Port
26-Circuit Stacked Connector
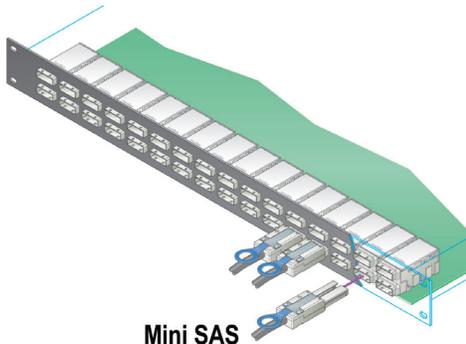
75758 Integrated Dual Port Connector

■ Server/Storage/HPC/Telecom Applications
  - Servers, JBODs (just a bunch of discs), switches and routers
  - RAID controllers and storage bridge bay controllers
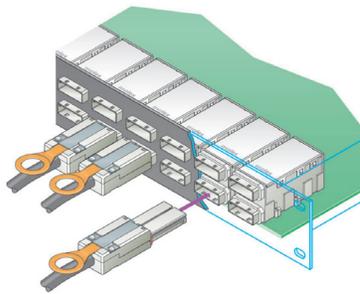 - High-density blades

SBB (Storage Bridge Bay) Controller
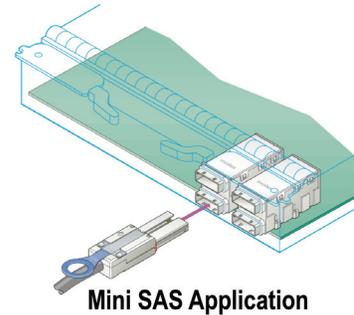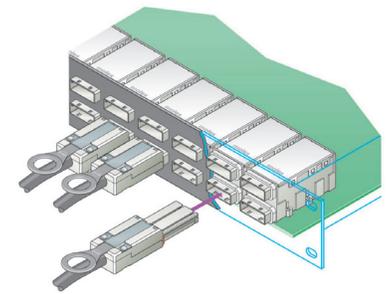

Mini SAS Application

1U Enclosures and Blades

Mini SAS

Serial Rapid I/O Application

Ethernet Application

ORDERING INFORMATION

Order No.	Channel Count	Circuit Size	Plating
75758-0101	8 (16 differential pairs)	52	0.76µm Gold (Au)

www.molex.com/product/ipass.html