

## FEATURES AND SPECIFICATIONS



# 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.

### 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

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](http://www.molex.com/product/ipass.html).



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

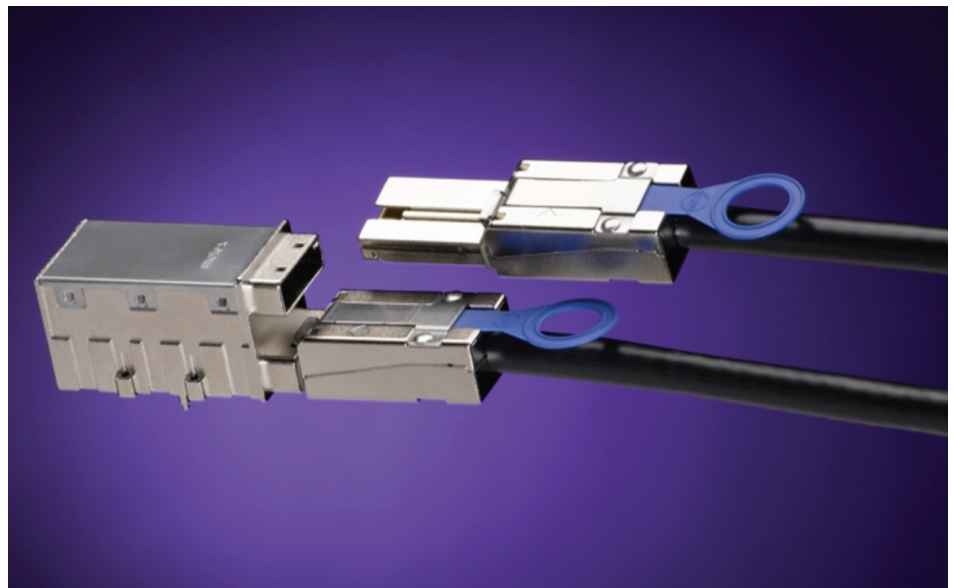
Housing: LCP  
Contact: Copper (Cu) Alloy  
Plating:

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)

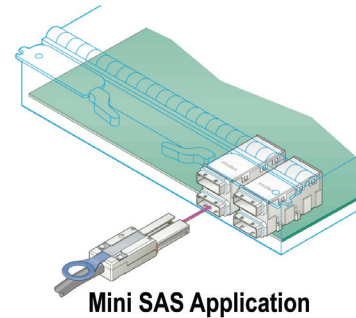


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iPass Integrated Dual-Port  
26-Circuit Stacked Connector**

**75758 Integrated Dual  
Port Connector**

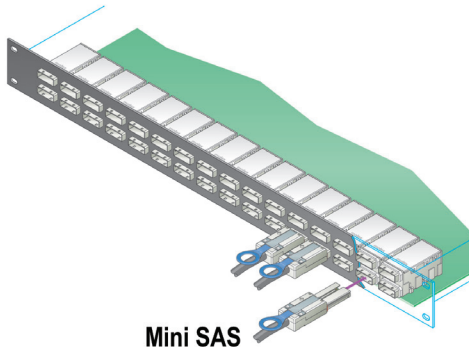
- Server/Storage/HPC/Telecom Applications
  - Servers, JBODs (just a bunch of discs), switches and routers
  - RAID controllers and storage bridge bay controllers
  - High-density blades

**SBB (Storage Bridge Bay) Controller**

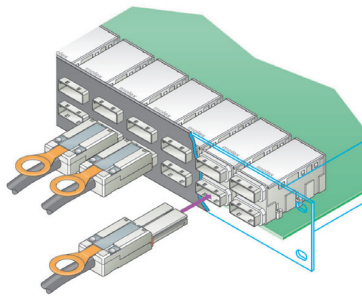


Mini SAS Application

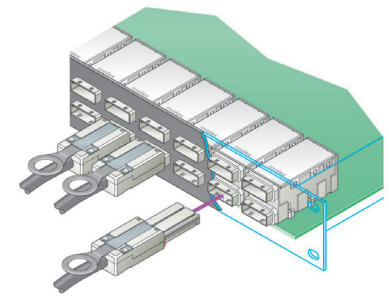
**1U Enclosures and Blades**



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](http://www.molex.com/product/ipass.html)

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