

Driving next-generation SAS-3 and projected SAS-4 data rates (24 Gbps over 4 lanes) and port-densities, low-profile iPass+ zHD Vertical Connectors improve system airflow and signal integrity (SI) by eliminating midplane connections

iPass+ zHD vertical connectors provide excellent signal integrity performance while maintaining a small footprint on the PCB.

iPass+ zHD vertical connectors provide OEM's a vertical connector that operates at SAS-3 and projected SAS-4 bandwidths.

Features and Benefits

Meets SAS-3 and projected SAS-4 high-density requirements	Provides nearly double the number of QSFP+ ports
Data rates scalable up to 96 Gbps (24 Gbps over 4 lanes)	Support projected SAS-4 high-speed data rates
Vertical, low-profile press-fit connection on the PCB	Provides a robust and secure connection and excellent signal integrity (SI). One-step placement eliminates cost and time associated with wave solder process. Improves system airflow and reduces board-space constraints by eliminating midplane connectors. Flexible design for use with midplane connectors if required
Waferized design with optimized PCB footprint	Provides low insertion loss (IL), low integrated cross-talk noise (ICN), low return loss (RL) and minimal performance variation across all high-speed channels
Positive locking latch	Improved latch ensures secure mating retention to cable assemblies
Multiple versions available (1-by-1, 1-by-2, 1-by-4)	Provides design flexibility
Mates to all current miniSAS HD cable products	Backward compatible with industry standard iPass+ HD (also referred to as miniSAS HD) passive copper, active copper and optical cable assemblies

PRELIMINARY iPass+™ zHD Connectors 0.75mm Pitch

1-by-1, 1-by-2,
1-by-4 Vertical Headers



iPass+™ zHD
1-by-1 Vertical Header



iPass+™ zHD
1-by-2 Vertical Header



iPass+™ zHD
1-by-4 Vertical Header

Applications

Server/Storage

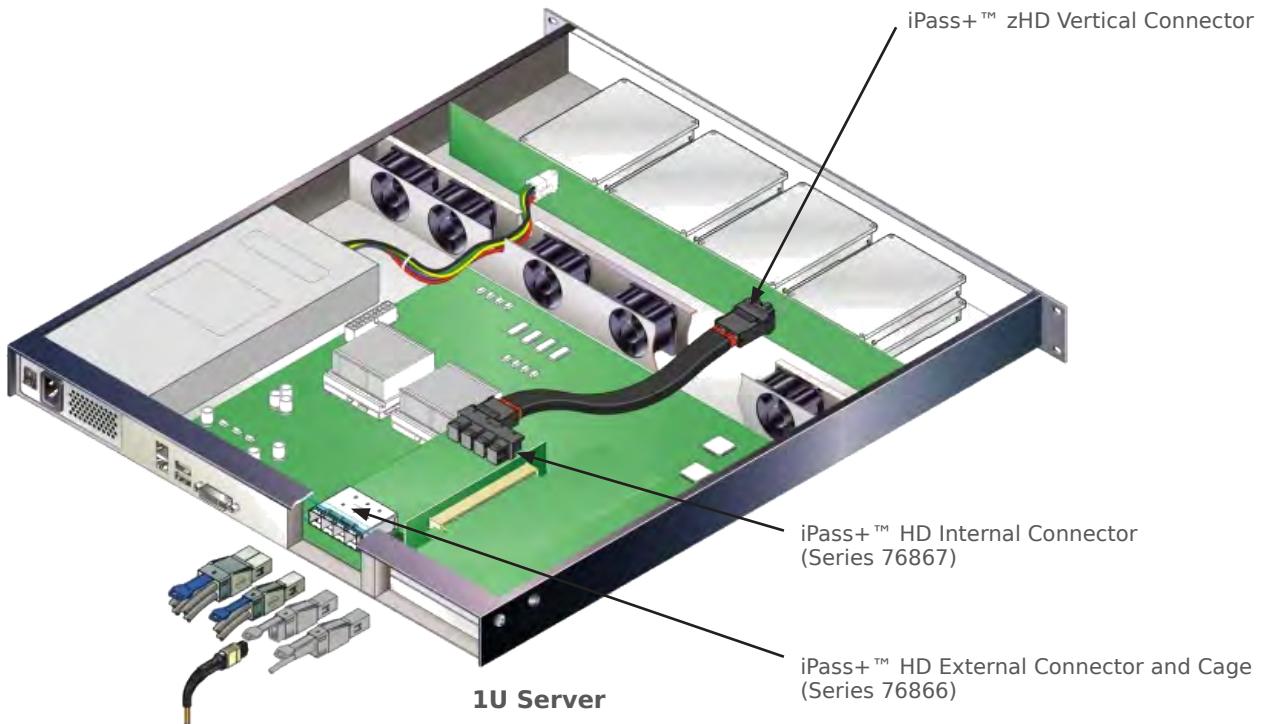
- HBAs (Host Bus Adapters) servers
- Host system boards
- Storage racks
- Switches
- Blades
- Storage bridge bay
- RAIDs (Redundant Array of Individual Disks)
- JBODs (Just a Bunch of Disks)

Computer Applications

- Tower and rack-mount computers
- Work stations



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