

# PCIe Switches

Dolphin PCI Express switch boxes provide low latency, highly efficient switching for high performance applications. These powerful switch products enable I/O scaling and inter-processor communication by combining transparent and non-transparent bridging capabilities with Dolphin's eXpressWare software and clustering technology. Users can connect multiple PCI Express end points or create a highly efficient compute cluster with PCs, servers, or SBCs with XMC sites.

Dolphin's switch boxes work as the switching element within Dolphin's product line. Each switch port delivers maximum bandwidth to each device while maintaining backwards compatibility with Gen1 and Gen2 components. These products utilize standard cable connectors such as iPass and MiniSAS-HD as well as PCIe 3.0 cables. They support both copper or fiber-optic cabling. Customers can link multiple standardized PCI Express products such as PXI chassis, storage, and I/O expansion units.



## MXS824

*PCIe Gen3 24 port switch*

- 24 PCI Express Gen3 x4 ports
- NTB or Transparent use
- SFF-8644 Connectors
- 19 Inch 1U rack mountable
- Copper and Fiber-optic cables
- PCIe 3.0 or MiniSAS-HD cables



## IXS600

*PCIe Gen3 8 port switch*

- 8 PCI Express Gen3 x8 ports
- NTB and Transparent use
- iPass x8 Connectors
- 19 Inch 1U rackmountable
- iPass x8 Copper cables

Feature	MXS824 PCIe Switch	IXS600 PCIe Switch
PCIe	Gen3	Gen3
Link Speed	32 GT/s per x4	64 GT/s per x8
Port Latency	170ns	200ns
Active Components	Microsemi Switchtec® PCI Express Gen3 Switch	IDT PCI Express Gen3 Switch
PCI Express	Base Specification 3.1	Base Specification 3.0
Ports	24 - x4 non blocking PCIe Gen3 ports	8 - x8 Non blocking PCIe Gen3 ports
Port configurations	Flexible port configurations - E.g 24 -x4, 12 -x8, 6 - x16 ports or 2x16+2x+12x4	8- x8 ports
Operating Modes	NTB and Transparent	NTB and Transparent
Connector Type	SFF-8644	iPass
Cable Connections	x4 MiniSAS HD or PCIe 3.0 cable connections	x8 - iPass Cable connections
Cable Types	Copper cables - up to 5 meters at Gen3 speeds Fiber-Optic cables - up to 100 meters at Gen3 speeds	Copper Cables - up to 3 meter at Gen3 speeds
Dimensions	1U 19 inch rack mount	1U 19 inch rack mount
Power consumption	Auto-sensing power supply 110-240v AC 50- 60 Hz	Auto-sensing power supply 110-240v AC 50- 60 Hz
Additional ports	1 Ethernet Management Port, 1 USB port for firmware, 1 SD-card slot	1 Ethernet Management Port, 1 USB port for firmware
Power management	Advanced power management - hibernation, wake via Ethernet	N/A