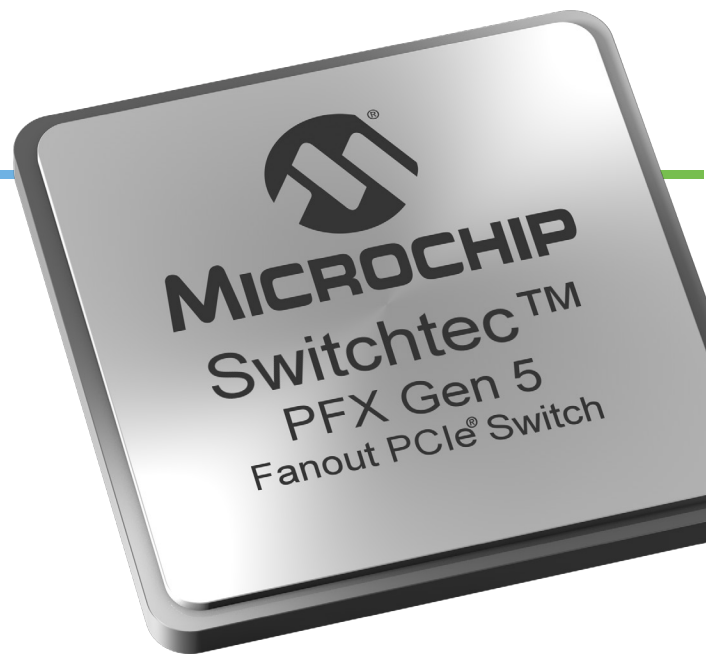


Switchtec™ PFX/PSX Gen 5 Fanout PCIe® Switch Family

PM50100, PM50084, PM50068, PM50052,
PM50036, PM50028, PM51100, PM51084,
PM51068, PM51052, PM51036, PM51028

Summary

The Switchtec PFX/PSX Gen 5 Fanout PCIe Switch Family comprises high-reliability PCIe switches supporting up to 100 lanes, 52 ports, 26 virtual switch partitions, 48 nontransparent bridges (NTBs), hot- and surprise-plug controllers for each port, advanced error containment and comprehensive diagnostics and debug capabilities, a wide breadth of I/O interfaces and an integrated MIPS processor. Typical applications for the PFX/PSX family include data center equipment, defense and industrial servers, workstations, test equipment, video production and broadcasting equipment, cellular infrastructure, access networks, metro networks and core networking.



Features

High-Performance Non-Blocking Gen 5 Switches

- 100-lane, 84-lane, 68-lane, 52-lane, 36-lane and 28-lane variants
- Up to 48 NTBs assignable to any port
- Logical non-transparent (NT) interconnect allows for larger topologies
- Supports 1+1 and N+1 failover mechanisms
- NT address translation using direct windows and multiple sub-windows per BAR

DMA Controller

- High-performance, ultra-low latency cut-through DMA engine
- Up to 64 DMA channels

Error Containment

- Advanced Error Reporting (AER) on all ports
- Downstream Port Containment (DPC) on all downstream ports
- Completion Timeout Synthesis (CTS) to prevent an error state in an upstream host due to incomplete non-posted transactions
- Hot- and surprise-plug controllers per port
- GPIOs configurable for different cable/connector standards

PCIe Interfaces

- Passive, managed and optical cables
- SFF-8644, SFF-8643, SFF-8639, OcuLink and other connectors
- SHPC-enabled slot and edge connectors

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