

Switchtec™ PFX/PFX-I PCIe Gen3 Fanout Switch Families

PM853x PFX and PM857x PFX-I 96/80/64/48/32/24xG3 PCIe Gen3 Fanout Switches

Peripheral I/O Interfaces

- Up to 11 Two-Wire Interfaces (TWIs) with SMBus support
- Up to 2 SFF-8485-compliant SGPIO ports
- Up to 109 parallel GPIO pins
- Up to 4 UARTs
- JTAG and EJTAG interface

High-speed I/O

- PCIe Gen3 8 GT/s
- Supports PCIe-compliant link training and manual PHY configuration

Power Management

- Active State Power Management (ASPM)
- Software controlled power management

Chiplink Diagnostic Tools

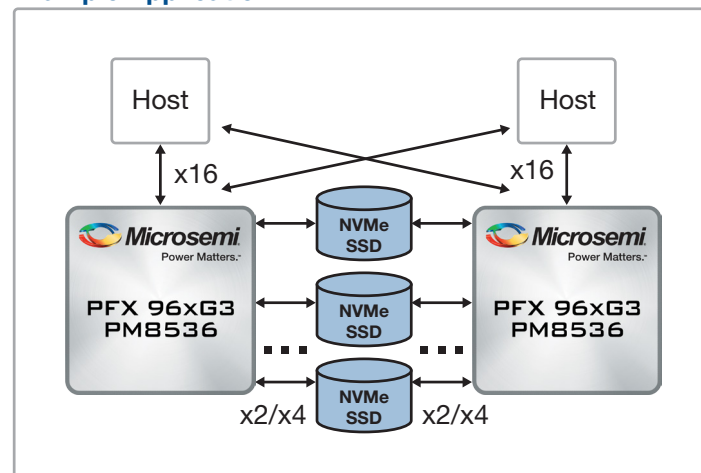
- Extensive debug, diagnostics, configuration, and analysis tools with an intuitive GUI
- Access to configuration data, management capabilities, and signal integrity analysis tools (such as real-time eye capture)
- Connects to device over in-band PCIe or sideband signals (UART, TWI, and EJTAG)

Evaluation Kit

The evaluation kit is a device evaluation environment supporting multiple host and SSD interfaces. These kits can be used for evaluation of the Switchtec PCIe Fanout switches. Note that a 96-lane PCIe switch is populated on the evaluation kit. The following kit is available:

- PM5461-KIT — PFX/PFX-L/PSX/PAX 96/80/64xG3, 1-Slot, 16 HD Evaluation Kit (PMC-2151996)

Example Application



Ordering Information

Product	Lanes	Ports/NTBs	Partitions	Hot-plug Controllers	Package	PFX Ordering No.	PFX-I Ordering No.
96xG3 PCIe Fanout Switch	96	48	24	48	37.5 mm x 37.5 mm	PM8536B-FEI	PM8576B-FEI
80xG3 PCIe Fanout Switch	80	40	20	40	37.5 mm x 37.5 mm	PM8535B-FEI	PM8575B-FEI
64xG3 PCIe Fanout Switch	64	32	16	32	37.5 mm x 37.5 mm	PM8534B-FEI	PM8574B-FEI
48xG3 PCIe Fanout Switch	48	24	12	24	27.0 mm x 27.0 mm	PM8533B-F3EI	PM8573B-F3EI
32xG3 PCIe Fanout Switch	32	16	8	16	27.0 mm x 27.0 mm	PM8532B-F3EI	PM8572B-F3EI
24xG3 PCIe Fanout Switch	24	12	6	12	27.0 mm x 27.0 mm	PM8531B-F3EI	PM8571B-F3EI

Note: PFX T_{Junction}: 0 °C to 105 °C. PFX-I T_{Ambient}: -40 °C to T_{Junction}: 105 °C. PFX-I doesn't support Adaptive Voltage Scaling (AVS).



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