

DATA SHEET

Packet Switching Modules For Z-Series Packet-Optical Platforms

Packet Switching (PSW) modules are highly scalable packet switching and transport modules for Ciena's Z-Series Packet-Optical Platforms.

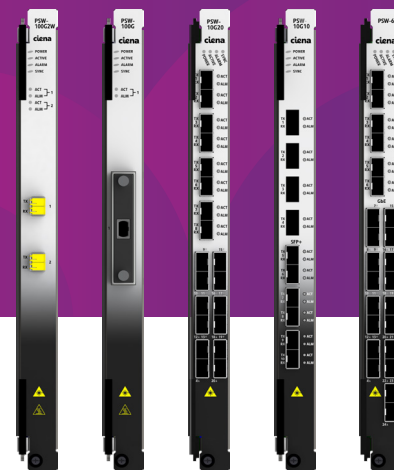
Optimized for high-capacity Carrier Ethernet transport, aggregation, switching, and service delivery in any of the Z-Series platforms, the four modules are distinguished by different port configurations:

- PSW-100G2W supports two integrated 100G coherent interfaces using Ciena's Wavelogic 3 Nano coherent technology
- PSW-100G supports one 100GbE CFP interface
- PSW-10G20 supports 20 10GbE (SFP+) interfaces, or up to eight GbE and 12 10GbE
- PSW-10G10 supports 10 10GbE (4 XFP and 6 SFP+) interfaces
- PSW-618 supports six 10GbE SFP+ and 18 GbE SFP interfaces

All PSW modules provide non-blocking, line-rate switching concurrently across all ports, with granular traffic management and Connection-Oriented Ethernet (COE) transport to ensure superior performance, scalability, and economics compared to traditional router solutions. Support for optional Optical Transport Network (OTN) mapping with Forward Error Correction (FEC) further optimizes packet transport over optical networks.

The PSW-100G2W is the newest addition to the PSW family of line cards. It provides two coherent 100G line interfaces that enable high density and efficient transport of traffic originating from other cards in the PSW family such as the PSW-10G20. With the PSW-100G2W and PSW-10G20, operators can offer GbE, 10GbE, and 100G services through cards that enable 200G of capacity per card, maximizing the density and capacity of the Z-Series.

PSW modules share a common connectivity into Z-Series chassis and backplanes. In the Z77, PSW modules interconnect through the 2.8 Tb/s switching fabric. In the



Features and benefits

- Supports advanced Ethernet services: E-Line, E-LAN, E-Access, and E-Tree
- Offers flexible connectivity with GbE, 10GbE, and 100GbE interfaces
- Features scalable, high-capacity aggregation from sub-1GbE to 100GbE
- Facilitates increased performance and scale with COE using PBB-TE
- Provides equipment and network-level protection, as well as hitless software upgrades, to maximize uptime
- Simplifies multi-layer management, visibility, and service orchestration via Ciena's Planet Operate software
- Fits in Z22, Z33, and Z77 platforms for investment protection, common sparing/inventory, and operational consistency