OSN 1800 Portfolio

The OSN 1800 series products are mainly used on metro and access networks. Through the unified switching of OTN, PKT,and SDH, multiple services can be transmitted on the same platform. This flattens the network, effectively reduces the network construction and O&M costs, and provides the best solution for multi-scenario and multi-service integrated bearer.

OSN 1800 I Enhanced

OSN 1800 II TP

OSN 1800 II Pro

OSN 1800 V Pro

Specifications	OSN 1800 I Enhanced	OSN 1800 II TP	OSN 1800 II Pro	OSN 1800 V Pro
Dimensions (H x D x W)	44 x 220 x 442mm	88.1 x 220 x 442mm	88.1 x 220 x 442mm	221.5 x 220 x 442mm
Number of slots for service boards	• DC-powered chassis: 2 • AC-powered chassis: 1	• DC-powered chassis: 2 • AC-powered chassis: 1	• DC-powered chassis: 6 • AC-powered chassis: 4	• DC-powered chassis: 14 • AC-powered chassis: 12
Optical-layer cross-connect capacity	N/A	1 to 9-degree ROADM	1 to 9-degree ROADM	1 to 9-degree ROADM
Cross-connect/ switching capacity	• OTN: 40Gbit/s • Packet: 120Gbit/s • TDM: 42.5Gbit/s (higher order), 5Gbit/s (lower order)	N/A	• OTN: 800Gbit/s • Packet: 800Gbit/s • TDM: 60Gbit/s (higher order), 10Gbit/s (lower order)	• OTN: 920Gbit/s • Packet: 920Gbit/s • TDM: 160Gbit/s (higher order), 20Gbit/s (lower order)
Maximum number of wavelengths	CWDM: 8-wavelength DWDM: 80-wavelength			
Supported service types	SDH/SONET, PDH, OTN, OSU, Ethernet services	SDH/SONET, OTN, Ethernet, CPRI, SAN, video, and other services	SDH/SONET, PDH, OTN, OSU, Ethernet, CPRI, SAN, video, and other services	SDH/SONET, PDH, OTN, OSU, Ethernet, CPRI, SAN, video, and other services
Line rate	155Mbit/s、622Mbit/s、2.5Gbit/s、10Gbit/s	2.5Gbit/s, 10Gbit/s, 100Gbit/s, 200Gbit/s	2.5Gbit/s, 10Gbit/s, 25Gbit/s, 100Gbit/s, 200Gbit/s	2.5Gbit/s, 10Gbit/s, 25Gbit/s, 100Gbit/s, 200 Gbit/s
Equipment-level protection	Fan redundancy	• Backup of cross-connect, system control, and clock units • Power supply backup • Fan redundancy	• Backup of cross-connect, system control, and clock units • Power supply backup • Fan redundancy	• Backup of cross-connect, system control, and clock units • Power supply backup • Fan redundancy
Optical power management	ALS	ALS, AGC, IPA	ALS, AGC, OPA, IPA	ALS, AGC, OPA, IPA
Synchronization	• Physical-layer clock • IEEE 1588v2 • ITU-T G.8275.1/G.8273.2			
Standard working voltage	• -48V/-60V DC • 110V/220V AC			
Operating temperature	• Long-term: -5℃ to 65℃ • Short-term[a]: -20℃ to 65℃	• Long-term: -5℃ to 55℃ • Short-term[a]: -10℃ to 55℃	• Long-term: -5℃ to 50℃ • Short-term[a]: -10℃ to 55℃	• Long-term: 5℃ to 50℃ • Short-term[a]: -10℃ to 55℃
Operating temperature	• Long-term: 5% to 85% • Short-term: 5% to 95%			

a: A short term refers to a maximum of 96 consecutive hours and the total time of short-term operating in a year cannot exceed 15 days.