

Corning ONE™ SDN LAN

CORNING

Software Defined Data Plane (SDDP)

Product Overview |

The Software Defined Data Plane (SDDP) meets the high-performance, availability, and network-scaling requirements of enterprise grade networks. The SDDP provides full line-rate switching at Layer 2 or Layer 3 across 48 x 10 GbE ports and 6 x 40 GbE uplinks. The switch can be deployed as a Top-of-Rack switch forming a non-blocking data fabric. The SDDP hardware is designed for enterprise grade networks, with a high port density of 54 x 10 GbE in a 1 RU enclosure; redundant, hot-swappable, load-sharing AC power input; fan tray with n+1 redundant fans; and port-to-power or power-to-port airflow options.

Key Features and Benefits |

- 48 x SFP+ switch ports
- 6 x 40 QSFP+ switch ports
- All ports on front; PSUs, fan tray on rear.
- Hot-swappable, load-sharing, redundant AC PSUs or -48VDC PSUs.
- Swappable fan tray with 3:1 fans.
- Management: Ethernet and console RJ-45/micro-USB ports; USB storage port.



Front View



Rear View

Product Specifications |

Configuration

Service Ports
48 x 10G SFP+
6 x 40G QSFP+
Out-of-band Management
1x 10/100/1000BaseT
Console
1 x Mini USB serial console port with mini-USB to RJ45 converter cable
USB
1 x USB 2.0 host
LED
Power, Status, Fan, PSU, Link status
Module Options
SR, CR, SR4, CR4
Switch ASIC
Broadcom BCM56854 (Trident 2)
CPU
Rangeley C2558 2.4G 4-Core
System Memory
DDR3 8GB w/ ECC SODIMM
Flash Memory
16MB NOR + 64GB SSD

Performance

Switching Capacity
1,440 Gbps
Packet Throughput
1.07 Gpps
Packet Buffer Memory
12MB
Latency
<0.7 microsecond

Physical and Environmental

Dimension (WxDxH)(mm)
440x406x44
Weight(KG)
9.0
Airflow & FAN
Front-to-Back or Back-to-Front,
3+1 redundant FAN FRU
Power Supply
1+1 redundant 550W AC/DC
PSU FRU
Input Voltage
AC: 100V-240V~, 8-4A, 50Hz-60Hz
DC: 180V~310V
Operation Temperature
0°C ~ 45°C
Operation Humidity
5% ~ 95% non-condensing

Regulatory

Emissions
FCC, CB, CCC
Safety
UL
RoHS
RoHS 6

Corning ONE™ SDN LAN



Ordering Information |

P/N	Short Description
1LAN-SDDP-48P	Software Defined Data Plane (SDDP) - 48-Port Dual AC PSU, Front to Back Airflow
1LAN-SFP-3405BC	Bi-Di SFP; SDDP to SDDP/SDOLT
1LAN-SFP-4305BC	Bi-Di SFP; SDDP/SDOLT to SDAN
1LAN-SFP-1GCU	Copper Ethernet SFPs (1G-TX)
1LAN-SFPP-10GB-LR	10Gb/s SFP+ Transceiver module, SMF, 1310nm, 10km
1LAN-SFPP-10GB-SR	10Gb/s SFP+ Transceiver module, MMF, 850nm, 300-meter
1LAN-SFP-1GB-LXLH	Gigabit SFP Transceiver, 1000Base-LX/LH, SMF, 1310nm, 10km
1LAN-OA-UPC	UPC Optical Attenuator