CORNING

Everon SD Data Plane

Software Defined Data Plane –POE Switching Fabric

1LAN-SDDP-24POE

1LAN-SDDP-48POE

REAR VIEW

Product Overview |

The Corning PoE Enabled Software Defined Data Plane (SDDP) family features 24 or 48 port options with a 19" rack mount form factor.

Corning's PoE enabled SDDPs can provide up to 30 Watts of power per port to attached devices as well as eight ports which support PoE++ up to 60 W per port. Supporting devices such as VoIP phones, wireless access points, surveillance cameras etc… that utilize a Category cable infrastructure has never been easier due to Corning SD-LAN's Whitebox Operating System (NOS) and industry leading Orchestration Platform.

Features	Benefits
Bare—metal hardware	• Cost - effective • Pre-loaded with Corning SD-LAN Whitebox NOS
24 or 48 RJ-45 Port models that support	• 10/100/1000BASE-T • IEEE 802.3at and IEEE 802.3af Power-over-Ethernet (PoE) on all ports simultaneously • IEEE 802.3bt (60W PoE) on 8 Ports
SFP Ports	• 4 x SFP+ uplink ports, supporting 10 GbE or 1 GbE • 2 x 20G QSFP+ ports
Full line-rate L2 switching	• MAC based packet forwarding on the LAN
Energy efficient	• Maximum 99.1 W system power consumption excluding PoE power consumption.
Reliability	• Hot-swappable, load-sharing, redundant AC PSUs.

Product Specifications

Ports	Switch Ports: 24 or 48 x RJ-45 100/1000BASE-T PoE ports 4 x 10G SFP+ ports supporting 10G or 1G 2 x 20G QSFP+ Management Ports: 1 x RJ-45 serial console 1 x RJ-45 100/1000BASE-T 1 x Micro-USB
Performance	Wire Speed Forwarding L2 Switching Capacity: 24POE: 208 Gbps full duplex 48POE: 260 Gbps full duplex Forwarding Rate: 24POE: 156 Mpps 48POE: 191 Mpps MAC Addr: 96 K VLAN IDs: 4K Jumbo Frames: Up to 12KB Multicast Packet Buffer Size: 4 MB shared
PoE	IEEE 802.3af (15W): 24 or 48 Ports

	IEEE 802.3qt (30W): 24 or 48 Ports
	UPoE (60W): 8 Ports
	PoE Power Budget:
	   24POE: 960W
	   48POE: 1650W

Key Components	Switch Silicon: 24POE: Broadcom BCM56342 Helix4 48POE: Broadcom BCM56340 Helix4 CPU: Dual-core ARM Cortex A9 1 GHz Memory: 2 GB DDR3 SDRAM ECC Flash: 8 MB SPI Flash, 32GB MLC eUSB
Software	Corning SD-LAN Whitebox NOS
Supported Optics & Cables	GE RJ-45 Ports: Cat 5/5e/6/6a up to 100 m SFP+ Ports: 10GBASE-CR DAC; 0.5 m to 7 m 10GBASE-SRL/SR; up to 100/300 m over OM3 MMF 10GBASE-LR; up to 10 km over SMF 1000BASE-SX, 1000BASE-LX, 100/1000BASE-T QSFP Port on Optional Module: 40GBASE-CR4 DAC; 0.5 m to 7 m 40GBASE-SR4; up to 100 m over OM3 MMF, 150 m over OM4 MMF 40GBASE-SR4 to 4x10GBASE-SR; 100 m over OM3, 150 m OM4 40GBASE-LR4; up to 10 km over SMF

Power	PSUs: 2 redundant, load-sharing, hot-swappable AC
	Note: AC PSUs are redundant in terms of system and networking, but not fully redundant in terms of PoE functions and the power budget.
	
	Input Voltage:
	     100-240 VAC, 50-60 Hz.
	
	Input Current:
	     Max 13 A@100/120 VAC
	     3 A@200/240 VAC
	
	Typical Power consumption (under line-rate, 48 x 1 GbE Cat 6, 4 x 10GBASE-SR Full Load):
	     24POE: 81.72W
	     48POE: 99.10W

LEDs	GE RJ-45 SFP+ Port LEDs: Link Speed, Link Status, Activity 10G SFP+ Port LEDs: Link Speed, Link Status, Activity Ethernet Management Port LED: Link Status, Activity System LEDs: PRI, PSU1, PSU2, STK1, STK2, FAN, PoE
Physical & Environmental	Rack Space: 19" Dimensions (HxWxD): 4.5 x 44 x 35 cm (1.7 x 17.3 x 16.1") 1 RU Weight: 24POE: 6.02 kg (13.27 lb) 48POE-54P: 6.36 kg (14.02 lb) Fans: System fan and PSU fans Operating Temperature: 0°C to 45°C Storage Temperature: -40°C to 70°C Operating Humidity: 5% to 95% non-condensing

Regulatory	EMI:
	    CE Mark (EN55022 Class A) FCC Part 15 Class A
	    VCCI Class A
	    CCC GB9254-2008 (48POE only)
	    BSMI (CNS13438)
	
	Environmental:
	    Temperature: IEC 68-2-14
	    Shock: IEC 68-2-29
	    Vibration: IEC 68-2-36, IEC 68-2-6 Drop: ISTA 2A
	    RoHS-6 Compliant
	    WEEE Compliant
	
	Safety:
	UL (CSA 22.2 No 60950-1 & UL 60950-1) CB (IEC/EN60950-1)
	
	Country of Origin:
	    Taiwan (TAA Compliant)

Ordering Information

Part Number	Description
1LAN-SDDP-24POE	24 Port Gigabit Switch, (8) UPOE, (24) POE, (4) 10G SFP+, (2) 20G QSFP+
1LAN-SDDP-48POE	48 Port Gigabit Switch, (8) UPOE, (48) POE, (4) 10G SFP+, (2) 20G QSFP+

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