

# Software-Defined Access Node (SDAN), 8000 Series 1P+3GE POE



**Part Number:**  
**1LAN-SDAN-8293**

The low-profile single port Software Defined Access Node (SDAN) with Power over Ethernet Plus incorporates a highly scalable integrated networking approach while leveraging the benefits of a fiber deep network architecture. Corning's Micro family of SDAN's are built using the latest generation SoC leveraging the most recent advances in technology, along with unrivaled hardware acceleration, QoS and efficient power management that meet the bandwidth demands of high-performance applications. Corning's SDAN offerings are all technology-neutral supporting both Active Ethernet as well as GPON transport.

SDANs have multiple port configurations and support both GPON and Active Ethernet. They provide easy connections to multiple PoE devices and can be powered by remote or local power.

Applications supported for these 8000 Series products are the following:

1LAN-SDAN-8293: PoE, POTS, IPTV, Active Ethernet, GPON

1LAN-SDAN-8010: PoE, IPRV, GPON

## Features and Benefits

Multiple port configurations

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Supports both GPON and Active ethernet

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Easy connections to PoE devices

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Remote or local power options available

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Supports multiple PoE types



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## Specifications

### Physical/Mechanical

Design	48V feed: rear facing , Optical connection: rear or bottom facing
LED Indicators	Battery , Power , Fail , LAN Data , Management , Network , POTS
Mounting/Installation Options	Desk-Mount , In-Wall , Wall-Mount

### Hardware

CATV Interface	RJ-11 Connectors
Ports	Two Independent Power Sourcing Equipment (PSE) Gigabit Ethernet Ports

### Performance

Average Launch Power	-0.5 to +5 dBm
Downstream Data Rate	GPON: 2.5 Gbps , Active Ethernet: 1 Gbps
MAC Address	Up to 1024 MAC address entries
Upstream Data Rate	GPON: 1.25 Gbps , Active Ethernet: 1 Gbps

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## Performance

VLAN	Up to 12 VLAN groups
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## SD-LAN Networking

Enterprise LAN	IGMP V2/V3 Snooping with Immediate Leave , Up to 1024 MAC address entries , Up to 12 VLAN groups per port , Up to 256 multicast groups
GE PoE Ethernet Port	Two Independent Power Sourcing Equipment (PSE) Gigabit Ethernet Ports , 2-Point Forced Current , 2-Point Forced Voltage , 30W Total PoE power allocated to any combination of ports Eth2 or ETH3 , Advanced Power Management: Fast Shutdown of Preselected Ports, Current/Voltage Monitoring
GPON	Forward Error Correction (FEC)
Layer 2	Automatic MAC address learning, aging and filtering
OAM and Management	ACS - CWMP configuration, performance monitoring, diagnostics and software download , automatic rollback , Remote firmware upgrade , SIP configuration from remote server , Webserver for local management
Voice	Comfort Noise Generation , 5 REN per line, Loop start, Balanced and unbalanced ringing , CLASS service support: Caller ID, Call Waiting, Call Forwarding, Call Transfer etc. , Country specific coefficients and tones , DHCP Client or static IP configuration , DTMF dialing and encoding by RELAY or IN-BAND method , Echo Cancellation , Metallic loop testing , Official Metaswitch and BroadSoft Certifications , Proven interoperability with major soft switch and voice gateway vendors , T.38 and IN-BAND Fax , Voice Activity Detection

## Environmental Conditions

Temperature Range, Storage	-40 °C to 60 °C (-40 °F to 140 °F )
Relative Humidity, Operation	5% to 95% (non-condensing)

## Optical Characteristics

Receiver Sensitivity	-27 dBm
Optical Wavelength	1490 +/- 10 nm Rx, 1310 +/- 20 nm Tx
Upstream Data Rate	GPON: 1.25 Gbps , Active Ethernet: 1 Gbps

## Dimensions

Height	25.4
Width	139

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## Dimensions

Depth	139
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## Ordering Information

Weight	0.7 kg
Units per Delivery	1/1

## Standards

Standards	CE: Compliant , EMC - EN 300 386 , EMC - EN 55022 Class B , EMC - EN 55024 Class B , EMC - FCC PART 15, SUBPART B, CLASS B , ETSI , FDA - FCC 47 CFR Part 15, Class B , FDA - FDR 21 CFR 1040.10, Class I , FDA - FDR 21 CFR 1040.11, Class I , G.711 ( $\mu$ and a law) , G.722 , G.726-32 , G.729 , GR-909 Metallic Loop Testing , IEEE 802.1d Ethernet bridging and switching , IEEE 802.1p marking/remarking, DSCP mapping , IEEE 802.3at Type 1 and 2 , Industrial Temperature rated , RFC 3435 - MGCP , Safety - IEC 60950 , Safety - UL/CSA 60950 , WEEE Emissions
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Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC • 28216 • United States  
800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • [www.corning.com/opcomm](http://www.corning.com/opcomm)

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