

Everon SD Access Node

Software Defined Access Node 8293 (SDAN), Micro Family



Product Overview |

Everon Software Defined Access Node (SDAN), Micro with Power over Ethernet incorporates a highly scalable integrated networking approach leveraging Optical Fibers inherent reach and passive nature to deliver advanced network access solutions using the most simplified architecture. SDAN's are network technology agnostic.

SDAN are built using the latest 4th generation processors leveraging the latest advances technology, along with unrivaled hardware acceleration, QoS and efficient power management that meets the bandwidth demands of businesses and backhaul needs of wireless technologies.

Model	Voice	GE	GE w/ PoE	Power Feed	Rear Power Connections	Rear GE
1LAN-SDAN-8293	1	1	2	48V	YES	YES (1 Port)

Features	Benefits	
Optical Interface	The SDAN terminate GPON or Active Ethernet fiber via a single SC/APC type optical connector and complies with GPON Standard ITU-T Rec. G984.2 Amendments. In GPON mode, the ONT receives data at 2.488 Gbps and sends upstream data at 1.244 Gbps over 1490 nm, 1310 nm wavelengths respectively. The following physical layer features are supported: • Class B+ and optionally Class C optics. • Class I laser Transceiver complies with FDA21 CFR • 1040.10 and 1040.11. • Received Optical Power monitoring.	
POTS - Plain Old Telephone Service	SDAN supports plain old telephone voice services over one RJ- 11 connector: • VoIP Softswitch or CLASS 5 based high quality voice service through one POTS lines or VoIP access through one of three Ethernet interfaces. • Support for all protocols in one software load (SIP, MGCP, H.248)	
PoE	With POE functionality, the ONT connects to any powered device (PD) terminal devices such as IP- Phones, IP-Camera, and other equipment that can be powered from the Ethernet port. With a total of 30W over the two PoE capable Ethernet ports, along with sophisticated power management between the ports allows a single port to reach 30W for type 2 PD equipment.	
Local Area Network (LAN) Interface	 Multiple high-speed LAN interface Configurable bandwidth and Class of service IGMP v2 and v3 proxy IEEE 802.1d transparent bridge (RFC-2684) PPPOE Client and DNS/DHCP Server functionality LAN functions including Bridging, Routing, Filtering, NATP translation MAC level ITU 802.1p QoS standards for Streaming IP video and IPTV content delivery 	
IPTV	Packet based interactive IPTV services including multicast video and video-on-demand	

Product Specifications

Optical	 GPON: 2.5 Gbps downstream, 1.244 Gbps upstream AE: 1 Gbps downstream/upstream Optical wavelengths: 1490 +/-10nm Rx, 1310 +/-20nm Tx Launch power: 0.5 to +5 dBm Receiver Sensitivity: -27 dBm Input power overload: -8 dBm Received optical power monitoring Auto Detect GPON/Active Ethernet
GPON	 Serial number discovery and Registration ID provisioning ITU-T G.984/G.988 compliance DBA support via mode-0 DBRu (piggy-back) reporting Dying Gasp Downstream Advanced Encryption Standard (AES) support Forward Error Correction (FEC) Upstream Traffic Management using Priority- based or Ratecontrolled scheduling
Enterprise LAN	 RJ-45 IEEE 802.1 10/100/1000 Base-T interfaces MDI/MDIX auto-sensing and auto-negotiation 802.1d Ethernet bridging and switching 802.1p marking/remarking, DSCP mapping 802.1Q including VLAN translation, filtering, Tagging Stacking (QinQ) Up to 12 VLAN groups per port Automatic MAC address learning, aging and filtering Up to 1024 MAC address entries Up to 256 multicast groups IGMP v2/v3 Snooping with immediate leave Downstream pBit and flow based LAN port queue selection Downstream Flow and port based Rate Limiting WAN DHCP Client and LAN DHCP Server Network Address and Port Translation Firewall and WAN, LAN Security
Voice	 RJ-11 connector 5 REN per line, Loop start, Balanced and unbalanced ringing Country specific coefficients and tones Metallic loop testing (GR-909) SIP (RFC 3261), MGCP (RFC 3435), H.248 (RFC 3525) DTMF dialing and encoding by RELAY or IN-BAND method CLASS service support (Caller ID, Call Waiting, Call Forwarding, Call Transfer etc.)G.711 (μ & a law), G.726-32, G.722, G.729

	 Echo Cancellation T.38 and IN-BAND Fax Voice Activity Detection and Comfort Noise Generation Proven interoperability with major soft switch and voice gateway vendors DHCP Client or static IP configuration Official Metaswitch and BroadSoft Certifications 	
LED Indicators	 Power Battery Fail LAN Data Management Network POTS 	
OAM and Management	 ITU-T G.984.4/G.988 management Remote firmware upgrade and automatic rollback Webserver for local management ACS - CWMP (TR-069) configuration, performance monitoring, diagnostics and software download TR-101, TR-111, TR-124, TR-143 	
GE Power Over Ethernet Ports	 Two Independent Power Sourcing Equipment (PSE) Gigabit Ethernet Ports Compliant with IEEE 802.3at Type 1 and 2 30W Total PoE power allocated to any combination of ports Eth2 or Eth3 Regulate port power up to 15.4W for Type 1 Power Device (PD), and 30 W for Type 2 Power Device Advanced Power Management – Fast Shutdown of Preselected Ports, Current/Voltage Monitoring Very High Reliability 4-Point PD Detection 2-Point Forced Voltage 2-Point Forced Current 	
Mechanical	 Desktop or wall mount In-wall mount to dual gang electric box 48V DC power Feed 48V feed is rear facing Optical connection can be rear facing or bottom facing 2-wire, 2-Pin Phoenix type power connector Industrial Temperature rated Rated for use in Air Handling Spaces (Plenum) 	
Dimensions (H x W x D) and Weight	 Size: 5.45 x 5.45 x 1 inches (139 x 139 x 25.4 mm) Weight: 1.5 lb (.7 kg) 	
Environmental	 Temperature: -40 °C to +60 °C (-40 °F to 140 °F) ambient Humidity: 5% to 90%, non-condensing 	
Regulatory Compliance	 Safety: UL/CSA 60950, IEC 60950, ETSI FDA – FCC 47 CFR Part 15, Class B and FDR 21 CFR 1040.10 and 1040.11 Class 1 EMC: FCC PART 15, SUBPART B, CLASS B EN 55022, EN 55024, EN 300 386, CLASS B 	

CE: CompliantRoHS6: ComplinatWEEE: Compliant

Ordering Information

Part Number	Description
1LAN-SDAN-8293	ONT, 1 POTS, 1 GE, 2 GE-POE
1LAN-SDAN-PWRSUP2	SDAN Power Supply (Wall Plug-in)



Model 1LAN-SDAN-8293 Rear View showing 3rd Ethernet port and power connection from the back side of the unit



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