

Everon SD Access Node

Software Defined Access Node (SDAN) 7691, 10G Family



Product Overview |

Corning's next generation 10G capable Software Defined Access Node (SDAN) incorporates a highly scalable integrated networking approach which leverages both 10G Active Ethernet and XGS-PON technology standards. 10G Active Ethernet is able to deliver symmetrical 10Gbps to connected devices for ultimate future proofing capability. XGS-PON's inherent reach and passive nature deliver advanced network access solutions using the most simplified architecture at 10Gbps speeds. Corning's 10G SDANs are built using the newest generation XGS-PON SoC leveraging the latest advances in technology, along with unrivaled hardware acceleration, QoS and efficient power management that meets the bandwidth demands of high-performance applications.

Features	Benefits
Optical Interface	The SDAN terminates XGS-PON or 10G Active Ethernet via ITU G.9801.7 Pluggable SFP+ cage.
PoE	With POE functionality, the SDAN connects to any powered device (PD) terminal devices such as IP-Phones, IP-Camera, and other equipment that can be powered from the Ethernet ports. With a total of 140W over the five GE ports and, along with sophisticated power management between the ports, allows ports to reach 60W for type 3 PD equipment.
Local Area Network (LAN) Interface	In addition to the four Gigabit Ethernet ports compliant with IEEE 802.3, 802.3u, and 802.3ab standards, the Corning 7691 10G/XGS-PON SDAN features one 10-Gigabit Ethernet port compliant with IEEE 802.3u, 802.3ab, 802.3bz and 802.3an standards. • Multiple high-speed LAN interface • 10G/mGIG Support • 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
SDN Ready	The Corning 7691 10G/XGS-PON SDAN supports provisioning through Corning SD-LAN's next generation, Orchestration Platform and virtual Network Commander. The 7691 supports OMCI provisioning as well as TR-69 communication bridging the gap between current and next generation Software Defined Access networks.
IPTV	Packet based interactive IPTV services including multicast video. Proxy reporting & Snooping.

Product Specifications

Product specifications	
Optical	 9.953 Gbps downstream, 9.953 Gbps upstream Optical wavelengths: 1577 +/-3nm Rx, 1270 +/- 10nm Tx Launch power: 0.5 to +5 dBm Receiver Sensitivity: -27 dBm Input power overload: -8 dBm Received optical power monitoring Pluggable SFP+ cage for 10G Ethernet & XGS-PON
10G XGS-PON	 Serial number discovery and Registration ID provisioning ITU-T G.9807.1 compliance for XGS-PON DBA support via mode-0 DBRu reporting Dying Gasp Downstream 128-Bit AES encryption support Forward Error Correction (FEC) Upstream Traffic Management using Priority-based or Rate-controlled scheduling Support for up to 8 T-CONTS with multiple priority queues per T-CONT Multiple GEM ports with flexible mapping between TCONTs and Priority queues P-Bit based GEM and upstream Priority queue IPTV traffic filtering (Multicast GEM port)
Enterprise LAN	 Four RJ-45 10/100/1000 Base-T interfaces One RJ-45 100/1/2.5/5/10G Base-T interface 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 25 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 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
LED Indicators	Power/BatteryPONMG5GE1 – GE4
OAM and Management	 ITU-T G.988 management Remote firmware upgrade and automatic rollback Webserver for local management SIP configuration from remote server

	 ACS - CWMP (TR-069) configuration, performance monitoring, diagnostics and software download TR-101, TR-111, TR-124, TR-143
GE Power Over Ethernet Ports	 Five Independent Power Sourcing Equipment (PSE) Gigabit Ethernet Ports, including 10G/mGig port Compliant with IEEE 802.3af, 802.3at Types 1 and 2, 802.3bt Type 3 GE1, GE2 and 10GE capable of 60W PoE across all three ports; GE3 and GE4 capable of 60W across both ports 16 independent PSE channels 0.25Ω sense resistance per channel Automatic detection of Power Type and Status Power Priority Management; support legacy power device and LLDP power device
Power	 Wall Adaptor 100-240VAC in, 50/60Hz UPS/BBU 2x4 Molex Connector 54VDC, 2.78A max 4 alarms (on battery, battery failure, battery missing, battery low) PSU-6/Remote Power: Phoenix Connector 2-pin 54VDC, 1.8A max
Physical & Environmental	 Size: 6.30" H x 8.66" W x 1.34" D(160mm x 220mm x 34mm) Weight: 0.7 lbs (300g) Temperature: 0°C to +40 °C (32°F to +104 °F) Humidity: 10% to 95% Plenum Rated
Regulatory	FCC: FCC PART 15, SUBPART B, CLASS B CE: EN55032,EN55035,EN300386 ETL: UL /CSA 62368-1 CB: IEC62368-1 FDA: 21CFR1040.10 IEC 60825-2.Class I laser safety





Ordering Information

Part Number	Description
1LAN-SDAN-7691	XGS-PON SFU, 4GE, 1-10GE/mGig, No Transceiver
1LAN-SDAN-PWRSUP2	SDAN Power Supply (Wall Plug-in)
1LAN-SDAN-PWRSUP160	SDAN Power Supply (Wall Plug-in) 150W
1LAN-SFPP-10G-LTF7225	10G SFP LTF225 SFP+ XGS-PON ONU Transceiver
1LAN-SFPP-10G-BXD-I	10GBASE-BX10-D BiDi SFP+ 1330nm-TX/1270nm-RX 10km DOM Transceiver Module
1LAN-SFPP-10G-BXU-I	10GBASE-BX10-U BiDi SFP+ 1270nm-TX/1330nm-RX 10km DOM Transceiver Module
1LAN-SFPP-10GB-LR	10Gb/s SFP+ Transceiver module, SMF, 1310nm, 10km
1LAN-SDAN-FST0004	Fiber Slack Tray



Corning Optical Communications LLC • 4200 Corning Place • Charlotte, NC 28216 USA 800-743-2675 • FAX: 828-325-5060 • International: +1-828-901-5000 • www.corning.com/opcomm

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