

# Entra Access Switch

## OUTDOOR HARDENED MULTI-PORT 10 GBE SWITCH

The **Entra Access Switch** is a remote cloud managed, 8 port x 10 GbE weatherproof switch capable of supporting Carrier Ethernet services in almost any deployment environment. It is designed to extend the capacity of networks with insufficient fibers while minimizing the use of expensive DWDM optics. Capital expenditure costs are significantly reduced for: short run fiber extension, deep fiber deployments and R-OLT for PON. Metro Ethernet support allows for deployment at business parks, while full support for IEEE 1588 and SyncE timing provides capability for mobile network backhaul and as well as DOCSIS 3.1 distributed access aggregation. The Entra Access Switch will ensure maximum ROI from your existing short and long range fiber links.



Entra Access Switch

## Use Cases



- Aggregation
  - Long haul DWDM SFP+ transport to multiple Short Range commodity optics
  - Capacity – Share 10 Gbps connection(s) across multiple 1 Gbps connections
  - DOCSIS 3.1 Distributed Access nodes (R-PHY / R-MACPHY)
- Mobile Network Backhaul – Link and backhaul multiple cell towers requiring synchronization (1588v2 or SyncE)
- Remote 10G-EPON OLT – Supports R-OLT modules for PON deployments
- Support Business Services

## Networking Features

- 8 x SFP+ dual 10/1G interfaces
- Up to 80 Gbps bidirectional
- L2/L3-aware Switching
- VLAN, QINQ, MSTP, LACP, ACLs, IGMP snooping
- Maintenance – EFM, CFM, LLDP, and Y.1731
- IEEE 1588v2 and G.8261 compliant SyncE support
- Security – 802.1X port authentication
- Link Protection – 802.3ad LAG, G.8031/8032
- Multi device Network management via Vecima Virtual Controller

## Deployment Features

- Outdoor hardened multiport 10 GbE switch
- Large fiber tray with generous support for optical couplers, splice holders, inline or cassette-style DWDM mux/demux
- Multiple power options – Single Port (F-Type & RG-6)
  - 60/90 VAC line tap
  - Standard AC 90-260 VAC
- Future 10G-EPON OLT integration support
- Mounting options for strand, pedestal or wall
- Dimensions:
  - 18”(46 cm) x 11.5” (29cm) x 6.75” (17cm)
- 2 Fiber Entry Ports

# Access Switch - Specifications

Ethernet Switch		Control & Management	
<b>Ports</b>	8 x dual-mode 1/10GE; SFP/SFP+	<b>Primary Interface</b>	Command Line Interface (CLI) Centralized CLI and Web UI when paired with the Vecima Virtual Controller TFTP, HTTPS TACACS+ Syslog SNMPv1/v2c/v3 (future)
<b>Optics</b>	All pluggable types, including CWDM, DWDM and Bi-directional.	<b>Troubleshooting Interface</b>	SSHv2 ASCII character mode
<b>Timing Support</b>	IEEE 1588v2 PTP, SyncE Sync to any external port	<b>Management Addressing</b>	DHCPv4, DHCPv6, IPv4, IPv6
<b>Protection</b>	802.1AX Link Aggregation (LAG) L2/L3/L4 LAG Hashing RSTP, MSTP, LACP G.8031 Linear Protection Switching G.8032 Ring Protection Switching	<b>Chassis / Power / Environmental</b>	
<b>Multicast Support</b>	IGMP v2/v3, MLD v1/v2 IGMP and MLD snooping, including SSM RFC-4541	<b>Dimensions (H x W x D)</b>	11.5 in. x 18 in. x 6.75 in. (29 cm x 46 cm x 17 cm)
<b>Ethernet</b>	32K MAC addresses supported 64 byte frames; 10056 byte Jumbo Frames IEEE 802.1Q encapsulation Port Mirroring Store and Forward or Cut Through Flow control and Storm control	<b>Weight</b>	25 lbs. (11.4 kg)
<b>MACsec</b>	Future phase	<b>Input Voltage</b>	Line power option: 40-90 VAC, 50/60 Hz Building power option: 90-264 VAC, 50/60 Hz
<b>Authentication</b>	IEEE 802.1X port-based authentication on all external ports; Message Passthrough; Protocol Authentication EAP-TLS	<b>Temperature (Operational)</b>	-40 to 60°C (-40 to 140°F)
<b>Operations, Administration &amp; Maintenance</b>	IEEE 802.1ag CFM IEEE 802.3ah Ethernet OAM ITU-Y.1731 OAM LLDP - [IEEE 802.1ab]	<b>Humidity (Operational)</b>	5 to 95%
<b>Aggregate Throughput</b>	80 Gbps, duplex	<b>Mounting</b>	Strand, Pedestal, Wall
<b>VLAN Support</b>	Priority Queueing [IEEE 802.1Q; 802.1p] IEEE 802.1Q Tunneling (Q-in-Q); IEEE 802.1ad Up to 4096 Port Based		
<b>Security</b>	Standard and Extended ACLs MAC binding / DHCP Snooping		
<b>QoS</b>	Diffserv support Rate Limiting 3 level scheduling based on queue/group/port 3 level shaping based on queue/group/port CIR, PIR (EIR) per port/per MAC/per IP		

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