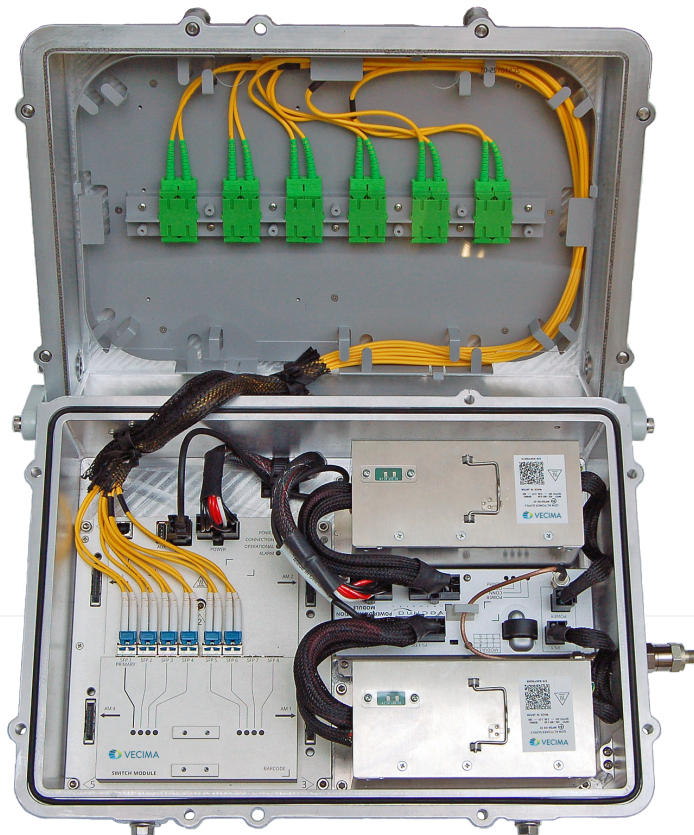# Entra Access Switch™

VECIMA

The Entra Access Switch™ is a remote 8 port x 10 GbE weatherproof switch that supports carrier Ethernet services in most deployments. It extends the capacity of networks that have insufficient fibers while minimizing the use of expensive DWDM optics.

Capital costs are significantly reduced for short-run fiber extension, deep fiber Distributed Access deployments, and business services extension. Support for IEEE 1588v2 timing provides capability for mobile network backhaul as well as DOCSIS® 3.1 distributed access aggregation. The Entra Access Switch provides maximum return on investment from your existing short- and long-range fiber links.

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 that require synchronization (IEEE 1588v2).
- Support business services.

Networking Features

- 8 x SFP+ 10G/1G interfaces.
- Up to 80 Gbps bidirectional.
- L2/L3-aware switching VLAN, Q-in-Q, MSTP, LACP, ACLs, IGMP, and MLD ASM snooping.
- Maintenance – EFM, CFM, LLDP, and Y.1731.
- IEEE 1588v2 support.
- Security – 802.1X port authentication.
- Link protection – 802.3ad link aggregation (LAG), G.8031/8032.

Deployment Features

- Outdoor hardened multiport 10 GbE switch.
- Large fiber tray with generous support for optical couplers, splice holders, and inline or cassette-style DWDM mux/demux.
- Powering from a power-passing tap (60/90 VAC).
- Mounting options for strand, pedestal, or wall.
- Dimensions:
    - 18" (46 cm) x 11.5" (29 cm) x 6.75" (17 cm).
- 2 fiber entry ports.

ENTRA
Entra Access Switch

Specifications

Ethernet Switch

Ports	8 x dual-mode 1/10GE; SFP/SFP+
Timing Support	IEEE 1588v2 PTP boundary clock
Protection	802.1AX LAG
	L2/L3/L4 LAG - hashing
	RSTP, MSTP, LACP
	G.8031 linear protection switching
	G.8032 ring protection switching
Multicast Support	IGMP v2/v3 and MLD v1/v2 ASM snooping
	RFC-4541 compliant
Ethernet	32K MAC addresses supported
	64 byte frames; 16096 byte jumbo frames
	Port mirroring
	Store and forward
	Flow control and storm control
Authentication	802.1X supplicant for management interface authentication
	EAPOL pass-through for authenticating downstream supplicants
Operations, Administration and Maintenance	IEEE 802.1ag CFM
	IEEE 802.3ah EFM-OAM
	ITU-T Y.1731 OAM
	LLDP - [IEEE 802.1ab]
Aggregate Throughput	80 Gbps, duplex
VLAN Support	Priority queueing [IEEE 802.1Q; 802.1p]
	IEEE 802.1Q encapsulation
	IEEE 802.1ad Q-in-Q tunneling
	Up to 4094
	Port-based
Security	Standard and extended ACLs
QoS	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

Control and Management

Interfaces	SSH command line interface with TACACS+
	SNMP
Management Addressing	Dual stack DHCPv4/IPv4 and DHCPv6/IPv6

Chassis / Power / Environmental

Dimensions (H x W x D)	11.5 in. x 18 in. x 6.75 in.
	(29 cm x 46 cm x 17 cm)
Weight	25 lbs. (11.4 kg)
Input Voltage	AC 45-90V (quasi-square-wave), 50/60Hz
	60 W maximum
Input Connector	SCTE-91 compliant with pre-installed F-type female adapter
Temperature (operational)	-40 to 60 C (-40 to 140 F)
Humidity (operational)	5% to 95%
Mounting	Strand, pedestal, wall

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