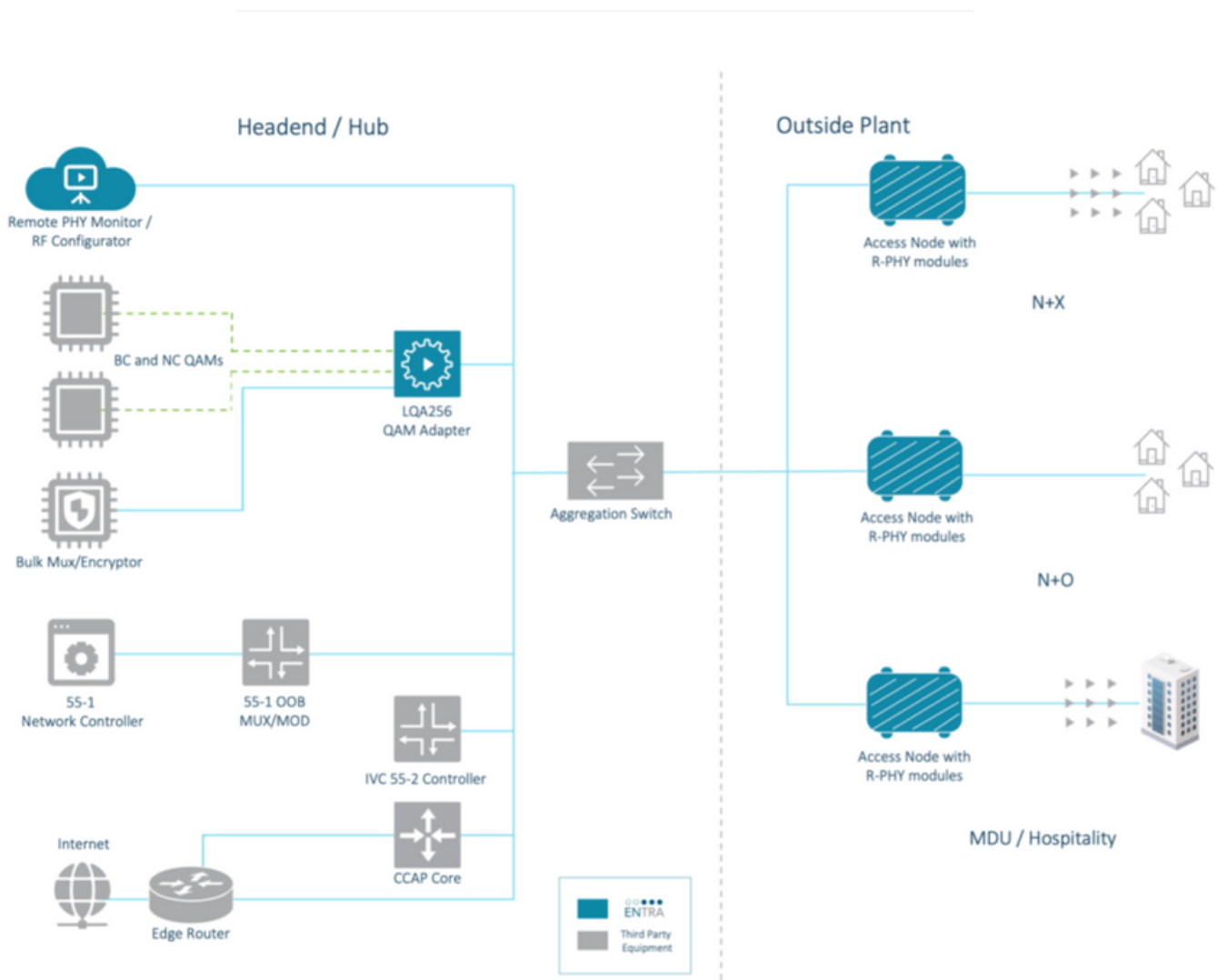


The Entra® Distributed Access Platform is Vecima's realization of the next generation of cable access products as optical transport moves away from analog RF distribution to all-digital Ethernet. Entra supports all dominant Distributed Access Architectures and facilitates the delivery of existing video and data services over fiber, hybrid fiber-coax, and direct Ethernet connections.



Entra EXS 1610 All-PON Shelf

Entra EXS1610 All-PON Access 1RU, 16-port OLT

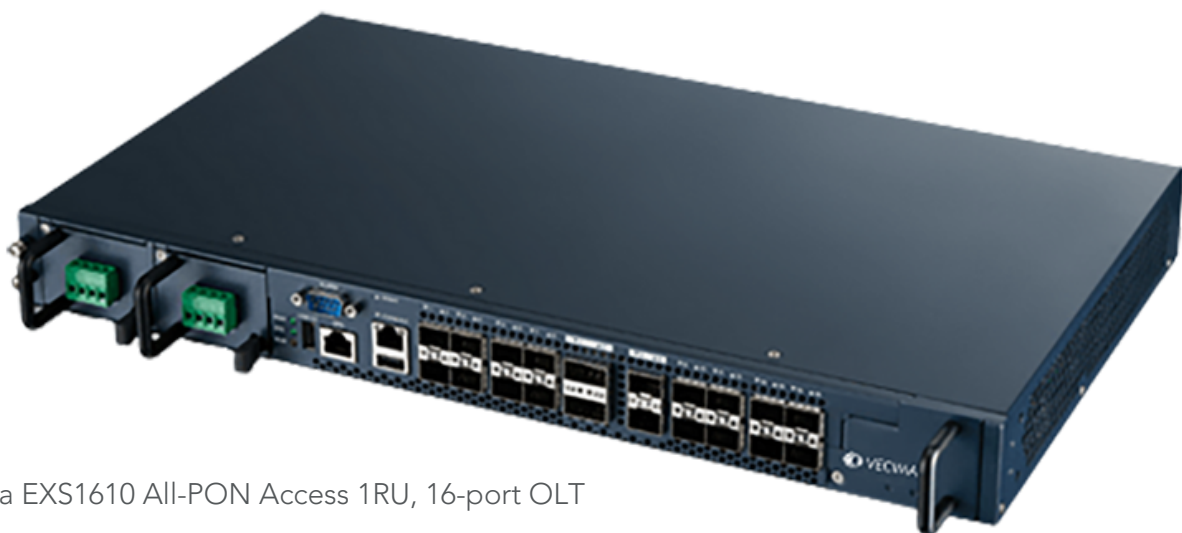
The EXS1610 Shelf is an all-passive optical network (PON) access optical line terminal (OLT) that supports the following on its user-network interface (UNI) ports:

- IEEE 10G-Ethernet PON (EPON)
- EPON
- Combo GE/10GE PON
- 10G active Ethernet technologies

The EXS1610 platform has hardware support for the following user-network interface (UNI) ports:

- ITU-T XGS-PON
- Gigabyte PON (GPON)
- Combo G/XGS-PON

Service providers can shorten time to market, achieve faster time-to-service for fiber broadband services, and support key fiber deployment use cases, including greenfield projects; hot-spot brownfield rollouts; rural, hybrid fiber coax (HFC) overbuilds; footprint extensions; and hub collapse projects with Vecima's PON portfolio.

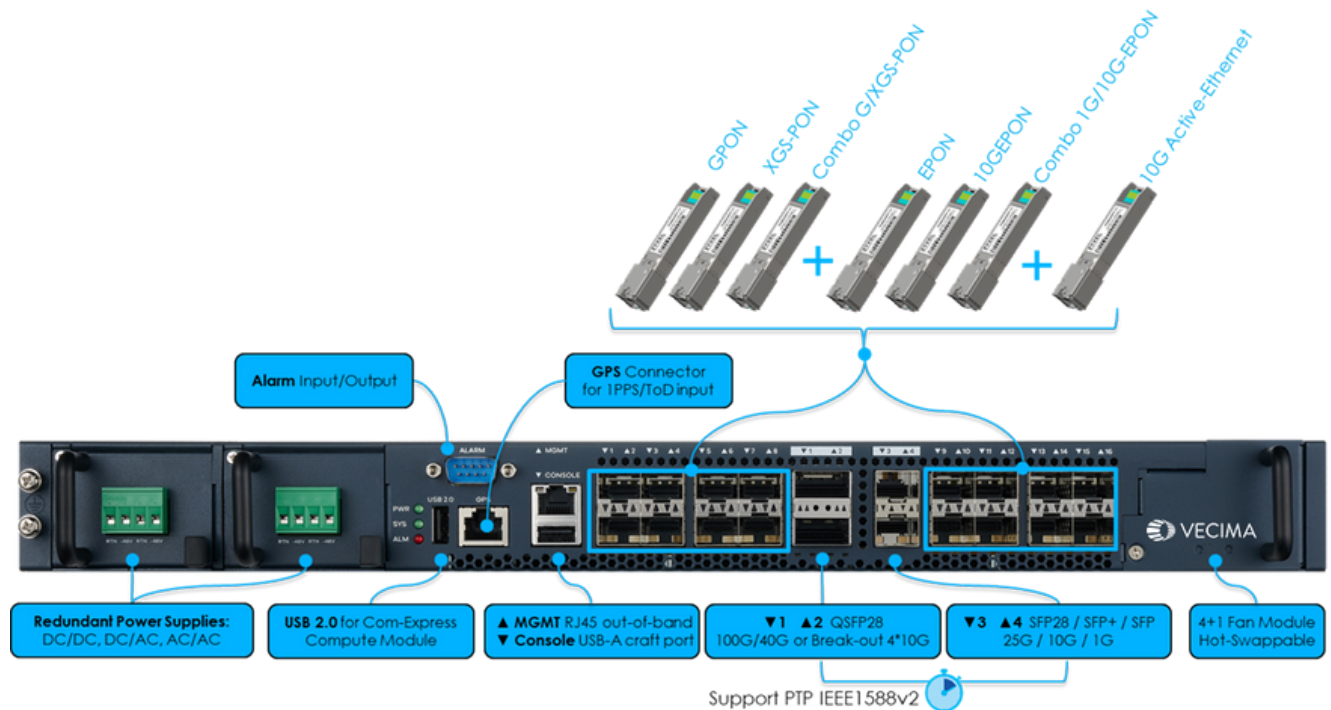


Entra EXS1610 All-PON Access 1RU, 16-port OLT

Entra EXS 1610 All-PON Shelf

Highlights

- 16 x PON ports: XGS-PON/GPON (combo PON) and 1G/10G-EPON.
- Uplink optics: 2 x 100/40G and 2 x 25/10G with broad third-party optics support.
- Multivendor optical network terminal (ONT) interoperability.
- <300mm depth designed for ETSI-rack.
- 1+1 AC or DC power redundancy.
- Temperature-hardened shelf for OSP deployments.



Entra EXS 1610 All-PON Shelf

Network Disaggregation Benefits

Entra shelf OLTs allow your 10G EPON access network to evolve beyond traditional monolithic architectures, where the control and forwarding plane are hosted on the same device.

- Control multiple OLT shelves as if they were cards in a chassis, thanks to the disaggregated access network.
- Scale and customize services based on customers' needs.

Flexibility for Versatile Deployment Environments

The carrier-grade, temperature-hardened, compact shelf tolerates a wide temperature range and diverse environments.

- Deploy anywhere – from data centers to remote cabinets.
- Easy to install with 1 RU height and 260 mm depth, ETSI-rack compliance, and all-front access.

Specifications

Hardware Specifications		Physical Dimensions	
	<ul style="list-style-type: none"> 16 x all-PON ports 2 x 100G/40G QSFP 28 ports 2 x 25G/10G SFP28 ports 1 x UART console port over USB 2.0 1 x RJ-45 OOB port 1000-BaseT 1 x USB 2.0 port for x86 COM-E 1 x 9-pin alarm interface (4 x inputs and 1 x output) 1 x RJ-45 connector (RS-422 input for GPS receiver) 	Shelf	<ul style="list-style-type: none"> Shelf dimensions (WxDxH): 440 x 260 x 44.5 mm (17.3" x 10.2" x 1.7") Item weight: 5.1 kg (11.24 lb.)
All-PON Ports	<ul style="list-style-type: none"> ITU-T GPON SFP ITU-T XGS-PON SFP+ ITU-T Combo G/XGS-PON SFP+ IEEE GEPON SFP IEEE 10GE-PON SFP+ IEEE combo 1G/10GE-PON 10G active Ethernet 	Environmental	
Supported PON Transceivers		Operational environment	<ul style="list-style-type: none"> Temperature: -40 to 65 C (-40 to 149 F) Humidity: 10% to 95% RH (noncondensing)
Power Module		Certifications	
<ul style="list-style-type: none"> Dual-redundant power module slats AC/DC dual-power supply AC power input: 100 to 240 V AC DC power input: -38.4 to -72 V DC Power consumption: 290 watts max 		<ul style="list-style-type: none"> EN 62368-1:2014+A11:2017 IEC 62368-1:2014 CAN/CSA C22.2 NO. 62368-1-14 ANSI/UL 62368-1, 2ND ED. FCC part 15 Subpart B (Class A) ICES-003 Issue 6 EN-55032:2015 / AC:2016 EN55024:2010 / A1:2015 ESTI 300 386 V2.1.1 AS/NZS CISPR 32:2013 EN 61000-3 2:2014 EN 61000-3 3:2013 	
Fan Tray and Module			
<ul style="list-style-type: none"> Removable fan tray 4+1 redundant fans and tray Hot-swappable Fan speed controlled by automatic temperature detection or user-configurable Side-to-side, left-to-right airflow 			