

**ENTRA®**

EPS1650 All-PON™ Shelf

Product Overview

The Entra EPS1650 is a compact, modular, “pay as you grow” Optical Line Terminal (OLT) designed to help service providers deploy and scale multiple generations of PON from a single platform.

Each Port Supports:

- Tri-Mode: ITU-T 50G-PON - XGS-PON - GPON
- Tri-Mode: ITU-T 50G-PON - 10G EPON, - 1G EPON
- Dual-Mode: 2xXGSPON or 2x10GEPON
- ITU Native & CableLabs® (DPoE) Provisioning



The shelf allows operators to start with eight PON ports and expand to 16 as demand grows. Each module provides eight **50G-capable Tri-Mode PON ports** or **Dual 10G PON ports** with double-density SFP optics, along with flexible 40G and 100G network-side uplinks.

Built for space-constrained and outside-plant environments, **The EPS1650 All-PON Shelf** combines high port density, temperature-hardened operation, redundant power options, and multivendor ONU interoperability. It is well suited to greenfield fiber deployments, brownfield upgrades, rural and hybrid fiber-coax overbuilds, footprint extensions, and hub consolidation.

Product Features



Scale as demand grows

Expand from eight to 16 PON ports



Simplify network evolution

Support 50G-PON, XGS-PON, 10G-EPON, with ITU & DPoE provisioning to address diverse network requirements



Protect your investment

Support existing 10G deployments with a path to 50G-PON, avoiding disruptive platform replacements



Open network ecosystem

Enable multivendor ONT and ONU interoperability through Vecima's Open Network Ecosystem (ONE™)

Technical highlights

- Multivendor ONT/ONU interoperability through Vecima's Open Network Ecosystem
- Up to 16 50G-capable PON ports per shelf
- Eight All-PON ports per module
- Double-density SFP 10G PON optics
- Multiple 40G/100G network-side uplinks per module
- Less than 300 mm deep for ETSI rack deployments
- Redundant 1+1 AC or DC power options
- Temperature-hardened for outside plant deployments

Specifications

Physical	
Height	1.7 in (44.5 mm)
Width	17.3 in (440 mm)
Depth	10.2 in (260 mm)
Operating Environment	
Temperature	-40 to 60 C (-40 to 140 F)
Relative Humidity	5% to 95%, noncondensing
Storage Environment	
Temperature	-40 to 70 C (-40 to 158 F)
Relative Humidity	5% to 95%, noncondensing
Power Module	
Power Module Slots	Dual Redundant
Type	AC or 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
Interfaces	
Subscriber Ports	16 SFP-DD All-PON ports
Networks Ports	8 QSFP28 40/100 Gb/s port
Supported Optical Modules	
SFP-DD for Subscriber	Tri-Mode 50G/10G/1G ITU-PON Tri-Mode 50G ITU/10G EPON/1G EPON 2x10G XGSPON or 10G EPON
SFP28 Uplink	SR, LR, ER, ZR, DWDM-ZR

Regulatory Standards Compliance

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