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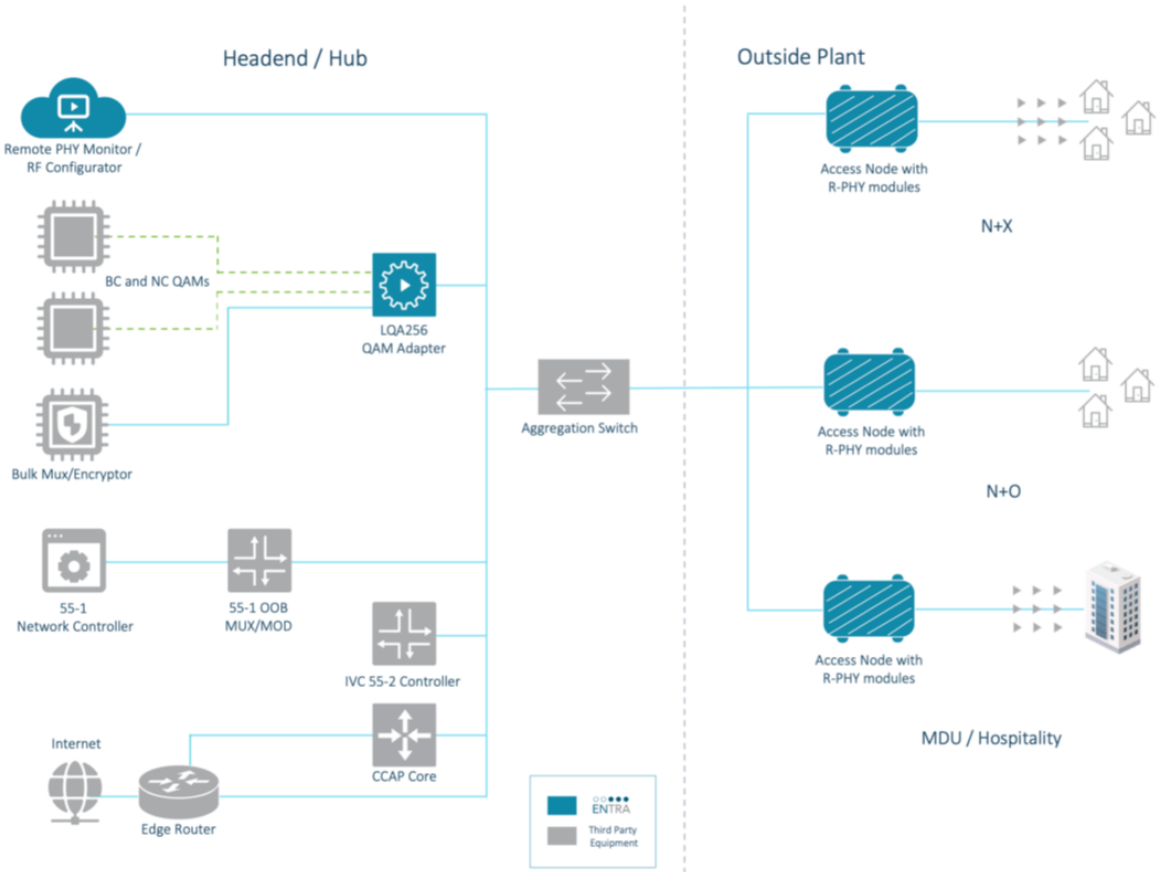
Entra® SF-4X Access Node

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.



The Entra SF-4X Access Node is a sealed remote optical line terminal (R-OLT) with four 10 Gb/s Ethernet passive optical network (EPON) ports and up to four 10 Gb/s Ethernet uplinks. With support for DOCSIS® provisioning over EPON (DpoE™), the SF-4X Access Node is the ideal fiber to the home (FTTH) solution and is an essential component of the Entra unified cable access portfolio.

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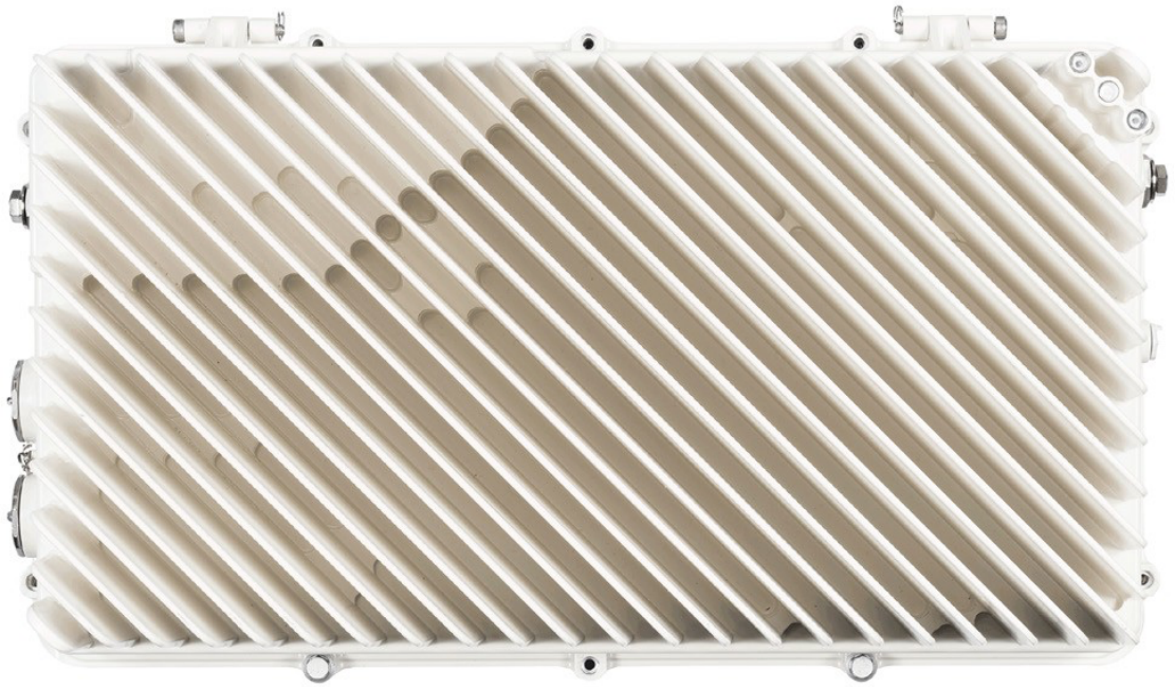
Entra SF-4X Access Node



Highlights

- 4 ports of 10 Gb/s EPON.
- Up to 4 ports of 10 Gb/s Ethernet uplinks.
- Integrates into a unified cable access solution and virtualized Distributed Access Architecture deployments.
- Field-replaceable components, including optical modules, EPON line card and power supply modules.
- Hardened for an outside plant enclosure, and line-powered with strand, wall, and
- pedestal mount options.
- Easily managed by Entra® Access Controller.
- Support for DPoE enables easy integration with existing networks and systems.
- High downstream and upstream capacity enables delivery of up to 10 Gb/s of
- symmetrical services.
- Point-to-multipoint architecture reduces fiber costs.
- Outstanding suitability for residential greenfield, commercial services, multiple dwelling
- units, hybrid fiber-coaxial black spot infill, long lines, and network spurs.

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Specifications

Physical

Height: 297 mm (11.7 in)
Width: 527 mm (20.7 in)
Depth: 238 mm (9.4 in)
Weight: 18.22 kg (40.12 lbs.)

Operating Environment

Temperature: -40 to 60 C (-40 to 140 F)
Relative humidity: 5% to 95%, noncondensing
Altitude: -60 m to 4000 m (-196.9 ft to 13,123.4 ft)

Storage Environment

Temperature: -40 to 70 C (-40 to 158 F)
Relative humidity: 5% to 95%, noncondensing
Altitude: -60 m to 4000 m (-196.9 ft to 13,123.4 ft)

Installation

Horizontal strand or pedestal mounting
Wall or pole mounting with mounting bracket

Power Requirements

44 V to 100 V AC, nominal 90/60 V AC quasi-square wave
75 W typical, 85 W maximum
Coax line-powered using left or right power port and a pin connector with 5/8-24 housing

Interfaces

4 ports of 10 Gb/s EPON for subscriber access
4 ports of 10 Gb/s for uplinks

Supported XFP Optical Modules for PON

10 G EPON Type 4, which supports 10/10, 10/1, 2 (Turbo)/1, or 1/1 EPON line rates

Supported SFP+ Optical Modules for Uplinks

ER, LR, BX-U, BX-D, ZR
Coarse wavelength division multiplexing (CWDM): ZR
Dense wavelength division multiplexing (DWDM): ZR, optical Ethernet

Reliability

Mean time between failure (MTBF): 101,295 hr at 60 C (140 F) and 439,318 hr at 25 C (77 F) per Telcordia SR-332 Issue 3 methodology

Regulatory Standards Compliance

EMC (Immunity/Emissions)

EN 55024
EN 55032
EN 55035
EN 61000-3-2
EN 61000-3-3
FCC PART 15 SUBPART B
VCCI CISPR 32

Safety

IEC/EN 60950-1
ANSI/UL 60950-1
CAN/CSA C22.2 No. 60950-1-07
IEC/EN 62368-1
ANSI/UL 62368-1
CAN/CSA C22.2 No. 62368-1
EN 60825-1 (ONLY for SFPs)
EN 60825-2 (ONLY for SFPs)

Outdoor Use

IEC 60950-22

Corrosion Resistance

GR-2873-CORE
ASTM B117

IP Rating

IP67

Surge

ANSI/SCTE 81
IEEE C61.42
IEEE C62.41

Environmental

IEC/EN 63000
Hazardous substances: RoHS Directive 2011/65/EC
Waste Electrical and Electronic Equipment: WEEE Directive

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