



ENTRA®

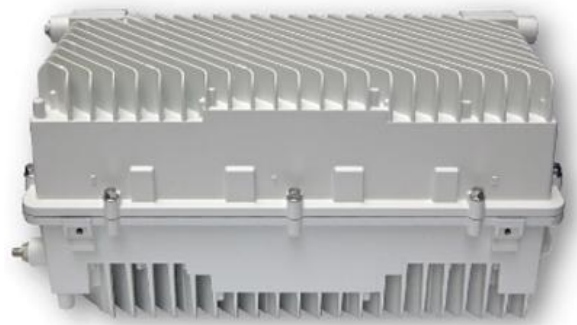
EN8800U

DOCSIS® 4.0
DAA Access Node

Reliable. Flexible. Simplified

The Entra® EN8800U is Vecima's realization of the next generation of hybrid fiber-coax (HFC) nodes that are purpose-built to support DOCSIS® 4.0 Remote PHY (R-PHY) deployments.

The EN8800U provides a multigigabit, multi-access platform to support ongoing DOCSIS evolution, PON, and wireless technologies with a foundation of interoperability.



**DOCSIS®
4.0**

Full Spectrum DOCSIS 4.0

Delivers maximum DOCSIS 4.0 throughput with full spectrum support up to 1.8 GHz downstream and multiple upstream options



Future-Proof "Forever Node"

Supports DOCSIS 4.0 R-PHY today and future technologies, including Remote PON OLT, Wireless, and Carrier Ethernet



Truly Intelligent, Managed Node

Accelerates and automates installation, configuration and drives ongoing in-service time and quality



Modular Design

4-port access node with field-replaceable amplifier modules, power supplies, and RPD module



Turnkey R-PHY Solution

Complete R-PHY solution that enables DAA deployments including Entra vCMTS, Nodes, and RPDs



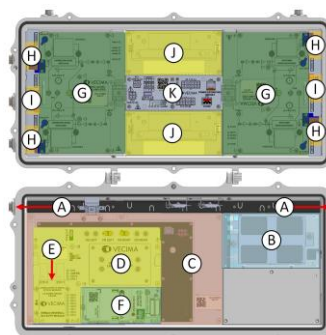
Investment Protection

Enables operators to standardize their networks on a single future-proof node platform with a multivendor ecosystem

Component Layout

The Entra EN8800U features a modular design that organizes key functional blocks into field-replaceable components.

This layout provides direct access to RF, digital and power modules, streamlining service, upgrades and lifecycle management.



- (A) Fiber Entry Ports (2)
- (B) Fiber Management Tray with MDM Cassette (1)
- (C) Entra Carrier Board (1)
- (D) Entra DOCSIS 4.0 R-PHY Module (1)
- (E) 10 / 25 GbE SFP+ Ports (2)
- (F) Power Holdover Module or Forward Injection Module (1)
- (G) Dual Port RF Amplifier Modules (2)
- (H) Port Entry Module – RF Enabled (4)
- (I) Port Entry Module – AC Power Only (2)
- (J) Power Supplies (1 or 2)
- (K) Power Distribution Module (1)

**ENTRA®****EN8800U**

DOCSIS® 4.0

DAA Access Node

Specifications

| Power | | RF Amplifier | |
|-----------------------|--|--|---|
| Input Voltage | 40-90 Vac. 50/60 Hz, Quasi-Square Wave | Supported Frequency Splits | |
| AC Current Passing | 15A max | Mid-Split | 5-85, 102-1792 MHz |
| Power Supply Output | 5.2 VDC (20 A max) 34 VDC (3 A max) 155 W DC Wattage max | High-Split | 5-204, 258-1,792 MHz |
| Thermal Dissipation | 175 W max | UHS-396 | 5-396, 468-1,792 MHz |
| External Interfaces | | Unified Classic | 5-85 US, 108-684 MHz FSD/FDX 804 – 1,794 MHz DS |
| RF / Power Ports | 4x SCTE-91 (two per side, base) | Unified Shifted | 5-204 US, 258-834 MHz FSD/FDX, 984-1,794 MHz DS |
| Power Only Ports | 2x SCTE-91 (one per side, base) | RF Port Performance with ERM4 Installed | |
| DS RF Test Ports | 4x (two per side, base) | Total Composite Power | Up to +70 dBmV Single 6 dB step at 1 GHz |
| Fiber Ports | 2x SCTE-91 (one per side, lid) | DS Linear Tilt (SW Controlled) | 11 to 21 dB over 108 to 1794 MHz |
| Physical | | US Nominal Set Point, DOCSIS | +6 to + 20 dBmV / 6.4 MHz FDD 0 to +7 dBmV / 6.4 MHz FDX |
| Height, Width, Depth | 11.3 in x 11.0 in x 23.9 in (28.8 cm x 28.1 cm x 60.7 cm) | Power Accuracy | +/- 1.0 dB TCP (ambient) |
| Weight | <50 lb (22.7 kg) | Tilt Accuracy | +/- 0.5 dB average tilt relative to target tilt |
| Mounting Options | Strand-mounted, Pedestal-mounted, Wall-mounted with accessory bracket Horizontal or vertical mounting | Port-Port Isolation | > 60dB |
| Operating Environment | | Hum Modulation | - 60dB |
| Temperature | -40 to 60 °C (-40 to 140 °F) | Regulatory, Industry, and Standards Compliance | |
| Relative Humidity | 5 to 95%, noncondensing | EMC | EN 55032, EN 55035, ICES-003 |
| Altitude | -196 to 13,213 feet (-60 to 4,000 meters) | (Immunity/Emissions) | FCC PART 15 SUBPART B, (AS/NZS) CISPR 32 |
| Supported Modules | | Safety | IEC/EN 62368-1, ANSI/UL 62368-1, CAN/CSA C22.2 No. 62368-1 |
| EN8800U-RFAM | 1.8 GHz Unified RF Amplifier | Outdoor Use, IP Rating | IEC 60529, IP68 |
| ERM412 | D4.0 1x2 R-PHY Module | Hazardous Substance | IECD/EN 63000: 2018, RoHS Directive 2015/863/EU |
| ERM422 | D4.0 2x2 R-PHY Module | WEEE Directive | 2012/19/EU |
| PHM2000 | Power Hold-up Module | REACH | Regulation (EC) No. 1907/2006 |
| EN8800U-ECB | Entra Carrier Board | Industry Standards | ANSI/SCTE 81 2018, ANSI/SCTE 91 2022, ANSI/SCTE 92 2022 |