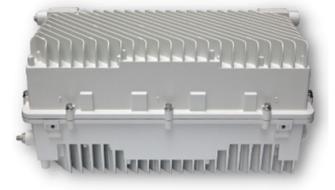
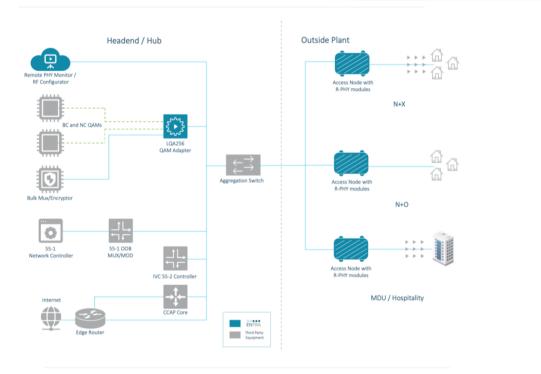
OOOOOO ENTRA Entra® EN8100, EN8400 DOCSIS 3.1 and 4.0 DAA Access Nodes

Entra® EN8100 and EN8400 are Vecima's realization of the next generation of hybrid fiber-coax nodes that are purpose-built to support R-PHY and deployments.



VECIMA



Highlights

- A truly intelligent, remote monitored and managed RF device (tilt, level, per-channel attenuation, U.S. wink, etc.).
- Core-neutral RPD implementation integrates with any standards-compliant CCAP or vCCAP core.
- Evolve CCAP core without any concerns of future distributed access node compatibility.
- Supports DOCSIS® and video services.
- Legacy digital video support, including all OOB (QAM and native 55-1 and 55-2).
- Support for future PON and D4.0 access modules.

ENTRA Entra EN8100, EN8400 DOCSIS 3.1 and 4.0 DAA Access Nodes

- A Fiber Entry Ports (2)
- (B) Fiber Management Tray (1)
- C Lid Distribution Module (1)
- D 10 GbE SFP+ Ports (2)
- (E) Access Modules (1 or 2)
- (F) Dual Port RF Amplifier Modules (2)
- G Port Entry Module RF Enabled (4)
- (H) Port Entry Module AC Power Only (2)

VECIMA

- () Power Supplies (1 or 2)
- () Forward Injection Module (0 or 1)
- (K) Power Distribution Module (1)

Lid Distribution Module	
SFP + Ports	1 × 10GE
	2 × 10 GE
Timing Support	IEEE 1588v2 PTP ordinary clock slave
Multicast Support	IGMP v2/v3 and MLD v1/v2
Fiber Redundancy	Hot and cold standby support
Node Daisy Chaining	Supported on secondary port
Authentication	802.1X port-based EAP-TLS
Lid Distribution Module	
DOCSIS 3.0 DS Channels	48 annex B

Video QAM DS Channels	128 annex B
DOCSIS 3.1 OFDM DS Channels	6 x 192 MHz
DOCSIS 3.0 U.S. Channels	1 or 2 service groups x 12 ATDMA each
DOCSIS 3.1 OFDMA U.S. Channels	2 service groups x 2 OFDMA (96 MHz) each
DOCSIS Operation Mode	Remote PHY
OOB DS	1 x SCTE 55-1, 1 x SCTE 55-2 (native)
	Narrow and wide NDF
OOB U.S.	3 x SCTE 55-1, 1 x SCTE 55-2 (native)
	NDR
AGC, Alignment, and Leakage Detection	4 x Dedicated CW (54 MHz to 1218 MHz)
Tones	158 x SC-QAM as CW (54 MHz to 1002 MHz)
Video QAM Input Support	MPTS over L2TPv3 (R-DEPI)
	10ms dejitter, PCR restamping,
	NULL insertion/deletion
Control & Management	
Primary Interface	Connected CCAP Core(s)
Troubleshooting Interface	SSH

RF Features	
Diplexer Options (field-replaceable)	5-85, 102-1218 MHz
	5-42, 54-1218 MHz
	5-65, 85-1218 MHz
	5-204, 258-1218 MHz
Upstream Ingress Switch (SW-controlled)	<-40 dBc, settable per node RF port
Downstream Mute (SW-controlled)	>10W power reduction per node RF
Chassis / Power / Environmental	
Dimensions (H x W x L)	11.3" x 11.0" x 23.9"
(Length excludes port plugs; height	(28.8 cm x 28.1 cm x 60.7 cm)
measured from the bottom of the strand)
Weight	<50 lb (22.7 kg)
External RF/Power Ports	4 x SCTE-91 (two per side)
External Power-Only Ports	2 x SCTE-91 (one per side)
External Fiber Ports	2 x SCTE-91 (one per side)
Input Voltage	45-90 VAC,50/60 Hz
AC Current Passing	15A max
Temperature (operational)	40 to 60 C (-40 to 140 F)
Humidity (operational)	5 to 95%
Mounting	Strand, pedestal, wall

Copyright © Vecima Networks Inc. Vecima reserves the right to modify or discontinue any product or piece of literature at any time without prior notice. All Trademarks are the property of their respective owners. Compliance with export control laws: Various export control laws of Canada, the United States, or other countries may restrict or prohibit the export to certain countries of products sold by Vecima. Vecima shall not be liable for anything arising from compliance or efforts to comply with export control laws.