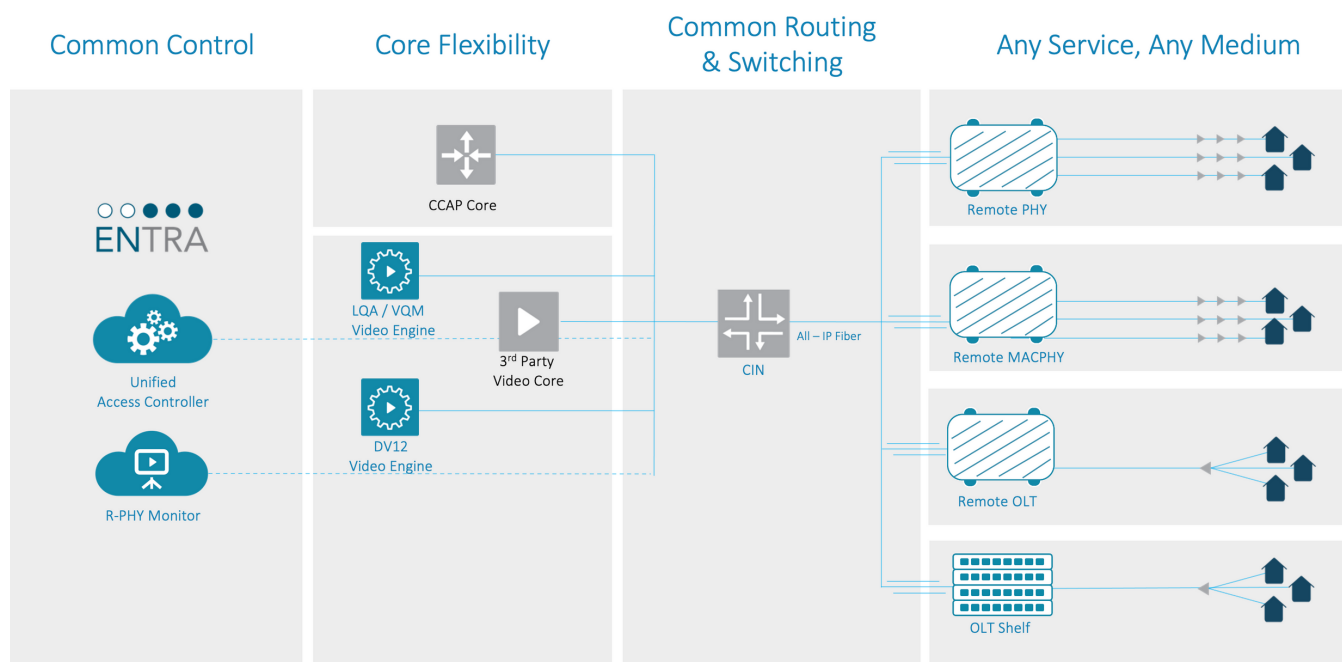


# EN2112

DOCSIS 3.1 R-PHY COMPACT 2 PORT 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 is optimized to support all distributed access architectures and facilitate the delivery of existing video and data services over hybrid fiber coax (HFC) and direct fiber connections.

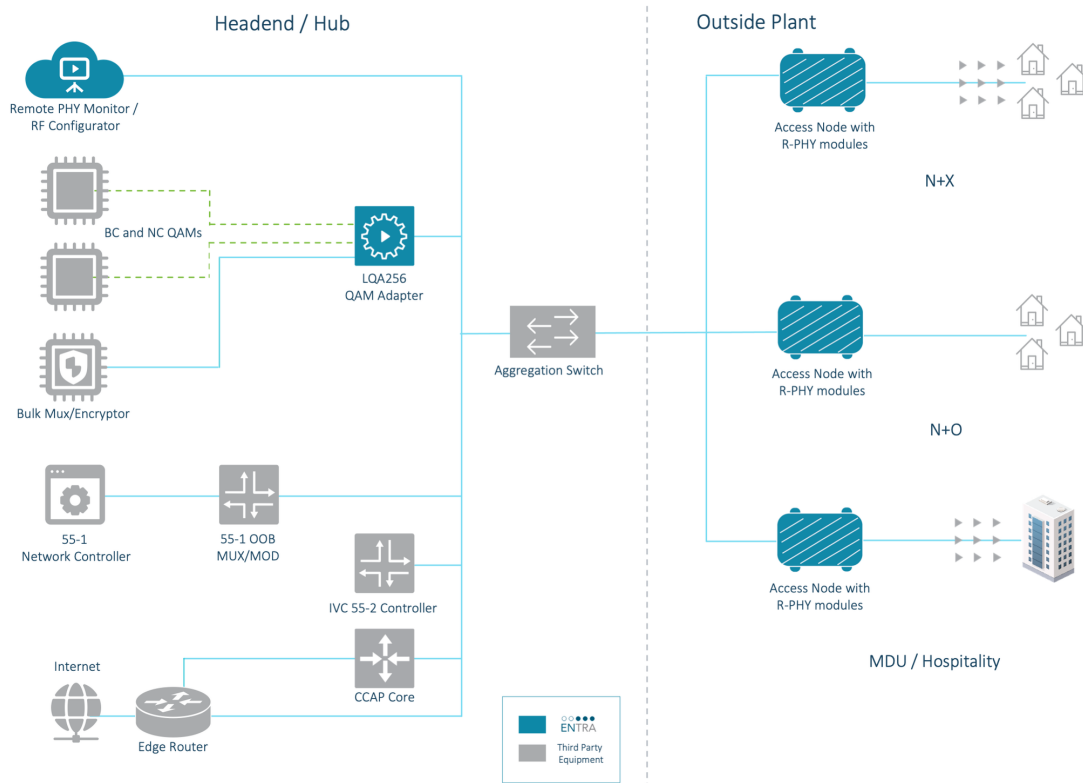


## Highlights

- Ready for R-PHY, R-MACPHY, and 10G EPON distributed access deployment today ...and for the future
- Future-proofed network design with multiple node form factors to fit a wide range of deployment needs
- Leverage existing video QAM infrastructure to transition into DAA deployments

# EN2112

DOCSIS 3.1 R-PHY COMPACT 2 PORT NODE



**ENTRA EN2112**  
DOCSIS 3.1 COMPACT RPHY ACCESS NODES



**Entra** EN2112 is a high-density Compact 2 Port implementation of our field-proven Entera 8100 DOCSIS 3.1 North American 4 port Node designed specifically for Global markets as well as MDU applications.

## Highlights

- A truly intelligent, remote RF-managed (tilt, attenuation, level, US wink, etc.) device.
- 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.
- Very Compact implementation of a 2-Port Node.
- Legacy digital video support, including all OOB (QAM plus native 55-1 and 55-2).

# EN2112

DOCSIS 3.1 R-PHY COMPACT 2 PORT NODE

## R-PHY Compact 2 Port Node Specifications

| RPD Module                                 |   | RF Features                                      |  |
|--|---|--|--|
| SFP+ Ports                                 | 2 x 10GE  | Diplexer Options (Field-Replaceable)             | 5-85, 102-1218MHz<br>5-42, 54-1218MHz<br>5-65, 85-1218MHz<br>5-204, 258-1218MHz    |
| Timing Support                             | IEEE 1588v2 PTP Ordinary Clock Slave  | Upstream Ingress Switch (SW Controlled)          | 0, -6dB, -40dB per Node RF Port  |
| Multicast Support                          | IGMP v2/v3 and MLD v1/v2  | Downstream Mute (SW Controlled)                  | >10W power reduction per node RF port  |
| Fiber Redundancy                           | Hot and cold standby support  | Downstream Service Groups                        | 1  |
| Authentication                             | 802.1X port-based EAP-TLS   | Upstream Service Groups                          | 2  |
| DOCSIS Operation Mode                      | Remote PHY  | Service Group Configuration                      | 1X1 or 1X2   |
| DOCSIS 3.1 OFDM DS Channels                | 1 service group x 6 OFDM (192 MHz)  | Local RF Injection                               | 54-1006 MHz  |
| DOCSIS 3.1 OFDMA US Channels               | 2 service groups x 2 OFDMA (96 MHz) each  | Analog RF Optical Overlay                        | Optional, 54-750 MHz   |
| DOCSIS 3.0 DS Channels                     | 48 Annex A/B  | 3rd RF Port                                      | Local RF In / 3rd RF Out   |
| Video QAM DS Channels                      | 128 Annex B/C, 96 Annex A   | Chassis / Power / Environmental                  |  |
| DOCSIS 3.0 DS Channels                     | 1 or 2 service groups x 12 ATDMA each   | Dimensions (H x W x L)                           | 245 x 204 x 160 mm<br>("9.6 x 8.0 x 6.3 in")                                       |
| OOB DS                                     | SCTE 55-1 & 55-2, 3 x Narrow & Wide NDF   | (Excludes mounting hardware and port connection) |  |
| OOB US                                     | SCTE 55-1 & 55-2, 3 x NDR   | Weight   | <15 lb (7 kg)  |
| AGC, Alignment and Leakage Detection Tones | 4 x Dedicated CW (54 MHz to 1218MHz)<br>158 x SC-QAM as CW (54 MHz to 1002 MHz)   | External RF/Power Ports                          | 75 ohms, 2 X PG 11 / SCTE 91 (5/8")  |
| Video QAM Input Support                    | MPTS over L2TPv3 (R-DEPI)<br>10ms de-jitter, PCR restamping, NULL insertion/deletion, Synchronous and Asynchronous mode support | External Fiber Ports                             | SC / APC   |
| Control & Management                       |   | Input Voltage Options                            | 30-65 VAC (QSW) 50/60 Hz<br>40-90 VAC (QSW) 50/60 Hz<br>90-264 VAC (sine) 50/60 Hz |
| Primary Interface                          | Connected CCAP Core(s)  | AC Current Passing                               | 10A max  |
| Troubleshooting Interface                  | SSH   | Temperature (Operational)                        | -40 to 60°C (-40 to 140°F)   |
|  |   | Humidity (Operational)                           | 5 to 95%   |
|  |   | Mounting   | Wall, Pedestal or Cabinet  |