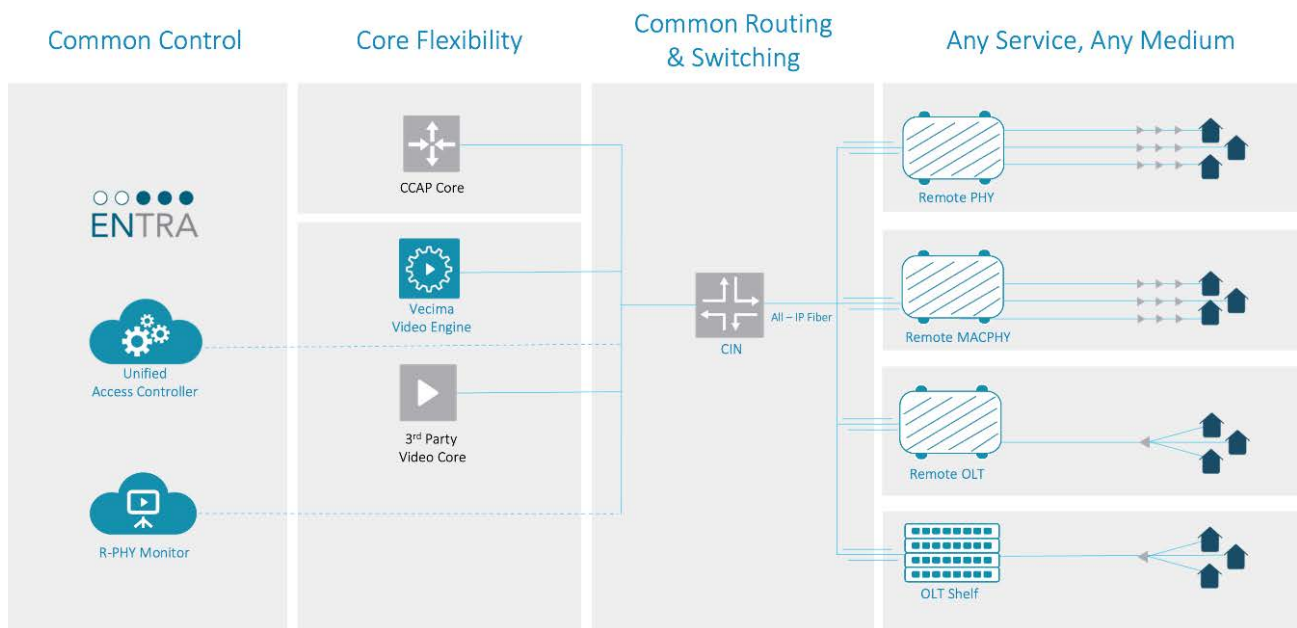


The Entra® ERM322/324 Remote PHY Device (RPD) is a high-density stand-alone module that builds upon our field-proven RPD technology in the Entra EN8100 DOCSIS® 3.1- and EN8400 DOCSIS 4.0-capable four-port nodes. The ERM322/324 fits in new and existing nodes that are suitable for all markets. The ERM322 and ERM324 modules share the same form factor and support two downstream service groups, while the ERM324 supports four upstream service groups. The ERM322 supports two upstream service groups.



Highlights

- RPD module suitable for use in multiple node platforms that have adapter kits.
- Core-neutral RPD implementation integrated with all existing CCAP cores.
- Enables CCAP core evolution without any concerns for future Distributed Access node compatibility.
- Supports DOCSIS and Ethernet services.
- Supports legacy digital QAM video.





ENTRA

Entra ERM322/324 RPD Module



Specifications

Lid Distribution Module		RF Features	
SFP + Ports	1 x 10GE 2 x 10 GE	Diplexer Options (field-replaceable)	5-85, 102-1218 MHz 5-42, 54-1218MHz 5-65, 85-1218MHz 5-204, 258-1218MHz
Timing Support	IEEE 1588v2 PTP ordinary clock slave	Upstream Ingress Switch (SW-controlled)	<-40 dBc, settable 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	Chassis / Power / Environmental	
Node Daisy Chaining	Supported on secondary port	Dimensions (H x W x L)	11.3" x 11.0" x 23.9" (28.8 cm x 28.1cm x 60.7 cm)
Authentication	802.1X port-based EAP-TLS	(Length excludes port plugs; height measured from the bottom of the strand)	
Lid Distribution Module		Weight	<50 lb (22.7 kg)
DOCSIS 3.0 DS Channels	48 annex B	External RF/Power Ports	4 x SCTE-91 (two per side)
Video QAM DS Channels	128 annex B	External Power-Only Ports	2 x SCTE-91 (one per side)
DOCSIS 3.1 OFDM DS Channels	6 x 192 MHz	External Fiber Ports	2 x SCTE-91 (one per side)
DOCSIS 3.0 U.S. Channels	1 or 2 service groups x 12 ATDMA each	Input Voltage	45-90 VAC, 50/60 Hz
DOCSIS 3.1 OFDMA U.S. Channels	2 service groups x 2 OFDMA (96 MHz) each	AC Current Passing	15A max
DOCSIS Operation Mode	Remote PHY	Temperature (operational)	-40 to 60 C (-40 to 140 F)
OOB DS	1 x SCTE 55-1, 1 x SCTE 55-2 (native) Narrow and wide NDF	Humidity (operational)	5% to 95%
OOB U.S.	3 x SCTE 55-1, 1 x SCTE 55-2 (native) NDR	Mounting	Strand, pedestal, wall
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		