



ENTRA®

ERM112
RPD Module

Product Overview

The Entra® ERM112 Remote PHY Device (RPD) is a compact stand-alone module that builds upon our field-proven RPD technology.

The ERM112 fits in EN92112 and legacy analog nodes.



ENTRA



Multiple Node Compatibility

Deploy in Vecima EN2112 or retrofit existing GS7000, nodes for DAA

DOCSIS®
3.1

Full Spectrum DOCSIS 3.1

Delivers maximum DOCSIS 3.1 throughput with full spectrum support up to 1.2GHz downstream and 204 MHz upstream



Flexible Service Groups

Supports up to 1 downstream and 2 upstream service groups



Legacy Digital Video Support

Support for Video SC-QAMs, SCTE OOB and DSG



Independent R-PHY Node Vendor

Inter-operable and flexible design, supporting multiple vendors' cores



Deploy With Confidence

Supports HFC services with all digital optics

Specifications

RPD Module	
Timing Support	IEEE 1588v2 PTP Ordinary Clock Slave
Multicast Support	IGMP v2/v3 and MLD v1/v2
Authentication	802.1X port-based EAP-TLS
DOCSIS Operation Mode	Remote PHY
Segmentation	1x1, 1x2, 2x2, 2x4 (ERM324)
DOCSIS 3.1 OFDM DS Channels	1 service group x 6 OFDM (192 MHz) each
DOCSIS 3.1 US Channels	1 or 2 service groups x 2 OFDMA (96 MHz) each
Maximum DS SC-QAMs	158 per service group
DOCSIS 3.0 DS Channels	1 service groups x 48 Annex A/B each
DOCSIS 3.0 US Channels	1 or 2 service groups 12 ATDMA each
Video QAM DS Channels	128 Annex B/C, 96 Annex A
Video QAM Input Support	MPTS over L2TPv3 (R-DEPI) 10ms de-jitter, PCR restamping, NULL insertion/deletion, Synchronous and Asynchronous mode support
OOB	SCTE 55-1 (native)
*Specifications may be dependent on CCAP core support	
Control & Management	
Primary Interface	CCAP Core, Aux Core(s)
Troubleshooting Interface	SSH

Supported Node Chassis	
Vecima	EN2112
Cisco	GS7000
Module / Power / Environmental	
Dimensions (H x W x L)	28.2 x 20.6 x 4.4 cm (11 x 8.1 x 1.75 in)
Weight	< 3 lbs (1.36 kg)
Voltage	5.25V +/- 5%
Current	7.5 A Typical, 8 A Max
Power	41.5 W Typical, 44 W Max
DS RF Port	1 x SMB (75 ohm)
US RF Ports	2 x SMB (75 ohm)
SFP+ Ports	2 x 10GE
Temperature (Operating)	-40 to +60°C (-40 to +140°F) ambient node housing
Humidity (Operational)	5 to 95%
Mounting	Node specific adapter kit
Regulatory, Industry, and Standards Compliance	
EMC (Immunity/Emissions)	EN 55032, EN 55035, ICES-003, FCC PART 15 SUBPART B, (AS/NZS) CISPR 32
Safety	IEC/EN 62368-1
Hazardous Substance	IEC/EN 63000: 2018, RoHS Directive 2015/863/EU
WEEE Directive	2012/19/EU
REACH	Regulation (EC) No 1907/2006

Ordering Information

ERM112-G	Entra Compact RPD Module for 3rd Party Node Upgrade Kits
ERM112-GS7K-UPG-KIT	Entra ERM112 RPD Upgrade Kit for GS7K . Includes ERM112 RPD Module, GS7K Adaptor and Cables.