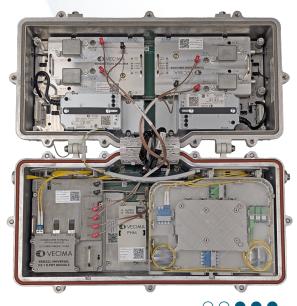
ENTRA®



EN9000 GENERIC ACCESS PLATFORM (GAP) NODE

The Entra® EN9000 is the industry's first Generic Access Platform (GAP) compliant node. The node was designed from the ground up to support 1.8 GHz RF to enable the next generation of hybrid fiber-coax (HFC) access with DOCSIS® 4.0.

The EN9000 provides a multigigabit, multiaccess platform to support ongoing DOCSIS evolution, PON, and wireless technologies with a foundation of interoperability.







GAP Compliant

SCTE GAP-compliant node and modules (ANSI/SCTE 273 2021). Benefits from Vecima's leadership in GAP and commitment to interoperability



Future-Proof "Forever Node"

Designed to support D3.1 R-PHY today and evolve to future technologies, including DOCSIS 4.0, Remote PON OLT, and Carrier Ethernet in the future



Full Spectrum DOCSIS 3.1

Delivers maximum DOCSIS 3.1 throughput with full spectrum support up to 1.2GHz downstream and 204 MHz upstream and is designed to support future D4.0 operation up to 1.8 GHz



Modular Design

4-port Access node with field-replaceable components include 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

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Specifications

Power		
Input Voltage	45-90 V _{AC} , 50/60 Hz, Quasi-Square Wave	
AC Current Passing	15A max	
Power Supply Output	25Vpc (7.2A), 12Vpc (15A), 5Vpc (21A) 180W Total	
Thermal Dissipation	Maximum of 200W @ +60°C (Up to 120W base and 120W lid)	
External Interfaces		
RF / Power Ports	4x SCTE-91 (two per side, base)	
Power-only Ports	2x SCTE-91 (one per side, base)	
DS RF Test Ports	4x SCTE-91 (two per side, base)	
Fiber Ports	2x SCTE-91 (one per side, lid)	
Physical		
Height, Width, Depth	11.5" (292 mm), 22" (559 mm), 12" (305 mm)	
Weight	<50 lb (22.7 kg) (Typical Configuration)	
Mounting Options	Strand-mounted, Pedestal-mounted Wall-mounted with accessory bracket Horizontal or vertical mounting	
Operating Environment		
Temperature	-40 to 60 °C (-40 to 140 °F)	
Relative Humidity	5% to 95%, noncondensing	
Altitude	-196 to 13,123 feet (-60 to 4,000 meters)	
Supported Vecima Mo	dules	
ERM322	D3.1 RPD module – 2DS x 2US SG	
ERM324	D3.1 RPD module – 2DS x 4US SG	
RFAM	1.8GHz RF Amplifier Module	
PHM2000	Power Holdover Module	
EEM210	10G EPON 2 Port Module	

RF Amplifier (RFAM)		
Diplexer Options (Field Replaceable)		
Mid Split	5 – 85 MHz / 102 – 1218 MHz	
High Split	5 – 204 MHz / 258 – 1794 MHz	
Ultra High Split	5 – 396 MHz / 492 – 1794 MHz	
Ultra High Split	5 – 492 MHz / 606 – 1794 MHz	
RF Port Performance with ERM3 installed		
Total Composite Power	+70 dBmV max	
DS Linear Tilt (SW Controlled)	15 to 21 dB over 108 to 1218 MHz	
US Nominal Set Point, DOCSIS	+6 to +12 dBmV/6.4 MHz	
Channel Power Accuracy	±1.0 dB TCP	
Tilt Accuracy	±0.5dB average tilt relative to target tilt	
Port-Port Isolation	>60 dB	
Hum Modulation	-60 dB	
Regulatory, Industry, and Standards Compliance		
EMC	EN 55032, EN 55035, ICES-003,	
(Immunity/Emissions)	FCC PART 15 SUBPART B, (AS/NZS) CISPR 32	
Safety	IEC/EN 62368-1, ANSI/UL 62368-1, CAN/CSA C22.2 No. 62368-1	
Outdoor Use, IP Rating	IEC 60529, NEMA-250, IP68	
	IEC/EN 63000: 2018,	
Hazardous Substance	RoHS Directive 2015/863/EU	
WEEE Directive	2012/19/EU	
REACH	Regulation (EC) No 1907/2006	
Industry Standards	ANSI/SCTE 81 2018, ANSI/SCTE 91 2022, ANSI/SCTE 92 2022, ANSI/SCTE 273-1 2021, ANSI/SCTE 273-2 2021, ANSI/SCTE 292 2024r1	

Ordering Information	
EN-AN-9000-HS-BP-1P	EN9000 R-PHY GAP Access Node. Includes Single PSU, 4 RF Ports, US 5-204 MHz, DS 258-1794 MHz, QTY2 1.8 GHz RF
	Amplifier Modules, with Lid Backplane. Does not include RPD module.
EN-AN-9000-HS-BP-2P	EN9000 R-PHY GAP Access Node. Includes Dual PSU, 4 RF Ports, US 5-204 MHz, DS 258-1794 MHz, QTY2 1.8 GHz RF
	Amplifier Modules, with Lid Backplane. Does not include RPD module.
EN-AN-9000-MS-BP-1P	EN9000 R-PHY GAP Access Node. Includes Single PSU, 4 RF Ports, US 5-85 MHz, DS 102-1218 MHz, QTY2 1.8 GHz RF
	Amplifier Modules. Does not include RPD module.
EN-AN-9000-MS-BP-2P	EN9000 R-PHY GAP Access Node. Includes Dual PSU, 4 RF Ports, US 5-85 MHz, DS 102-1218 MHz, QTY2 1.8 GHz RF
	Amplifier Modules. Does not include RPD module.
EN-AN-9000-NORF-BP-2P	EN9000 R-PHY GAP Access Node. Includes Dual PSU, 4 RF Ports, with Lid Backplane. Does not include RPD module or
	RFAM modules.

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