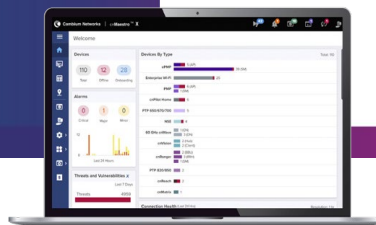


PTP 850GP

Licensed Microwave Radio IDU

PTP 850GP Quick Look

- Compact split mount
- 1RU with conduction cooling
- High spectral utilization: QPSK to 2048 QAM w/ACM
- Up to 40G capacity



Radio Interfaces

2 x SFP+ Radio Interfaces

2 x SFP+ Dual Use Radio or Ethernet Interfaces (1/10G)

Supported RFUs

RFU-D* High-capacity multicore radio

RFU-D-HP* High-capacity, high-power multicore radio

RFU-SX* High-capacity single core radio

Radio Features*

Multi-Carrier Adaptive Bandwidth Control with RFU-SX	1+0, 2x 1+0, 2+0, 1+1 HSB
Multi-Carrier Adaptive Bandwidth Control with RFU-D/RFU-D-HP	8+0, 4+0, 2 x 4+0, 2+0, 2 x 2+0
Space Diversity with RFU-D/RFU-D-HP	Up 4+0 SD, up to 2 x (2+0) SD, 1+1 and 2+2 HSB-SD
High spectral utilization: QPSK to 2048 QAM w/ACM	XPIC option with all configurations

*Refer to technical description document for RFU performance data and availability of radio features

PTP 850GP

Ethernet

Ethernet Interfaces	6 x SFP+ (1/10G) 2 x SFP28 (1/10/25G) 2 x SFP+ Dual Use Radio or Ethernet Interfaces (1/10G) 1 x RJ-45 Management/Protection Interface (100M)
Management Interfaces	1 x 10/100 Base-T (RJ-45)
Ethernet Features	VLAN add/remove, MSTP, ERP (ITU-T G.8032), Y.1731 Ethernet OAM, Y.1731 Ethernet Bandwidth Notification (ETH-BN)
MTU	9600 bytes
Quality of Service	QoS classification based on TOS/DSCP, VLAN ID, VLAN P-bits, MAC DA and SA, SA and DA IP Addresses (IPv4 and IPv6)
Networking Capacity	193 Gbps
Management Protocols	SNMP, REST
SDN Support	NETCONFIG/YANG

Synchronization

Synchronization Distribution	Sync distribution over any traffic interface (GE/FE, DS1, OC-3) Dedicated in/out synch interface (1.5 MHz) SyncE (ITU-T G.8261, G.8262) SSM/ESMC support for ring/mesh applications (ITU-T G.8264) SyncE regenerator mode, providing PRC grade (ITU-T G.811) performance for smart pipe applications IEEE-1588 Optimized Transport for reduced PDV
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Standards

MEF	Carrier Ethernet 2.0 (CE 2.0)
Supported Ethernet Standards	Management: 100base-T Traffic: 1000base-X and 10Gbase-LR (IEEE 802.3) Virtual LAN (VLAN, IEEE 802.1Q) MAC bridges (IEEE801.D) Class of service (IEEE 802.1p) Provider bridges (QinQ – IEEE 802.1ad) Link aggregation (IEEE 802.1AX) Auto MDI/MDIX for 1000baseT RFC 2474: IPv4 DSCP RFC 2460: IPv6 Traffic Classes

Security

Radio Encryption	AES 256
Secured Protocols	HTTPS, SNMPv3, SSH, SFTP
	Radius authentication and authorization
	TACACS+ authentication, authorization, and accounting (session-based)

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Standards Compliance

EMC	EN 301 489-4, EN 301 489-1, FCC 47 CFR, part 15, subpart B, ICES-003, TEC/SD/DD/EMC-221/05/OCT-16, IEC 61000-4-29, EN 61000-4-5 Level 4, Emissions tests (CISPR32 Class B)
Safety	EN 62368-1, IEC 62368-1, UL 62368-1, CAN/CSA-C22.2 No.62368-1
Operation	ETSI 300 019-1-3, Class 3.2 Ingress Protection: IEC 60529 IP20
Storage	ETSI EN 300 019-1-1 Class 1.2, ETSI EN 300 019-2-1 Specification T 1.2
Transportation	ETSI EN 300 019-1-2 Class 2.3, ETSI EN 300 019-2-2 Specification T2.3

Mechanical Specifications

Dimensions (H x W x D)	44 mm x 428 mm x 156 mm (1.73 in x 16.85 in x 6.14 in)
Weight	3 kg (6.6 lb)

Environmental

IDU	-5°C to +45°C
RFU	-33°C to +55°C
Humidity	0 to 95%, non-condensing

Power Input

IDU Standard Input	-48 VDC
IDU DC Input Range	-40.5 to -60 VDC, Dual-feed power support

ABOUT CAMBIUM NETWORKS

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

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