

Cambium Networks PTP 250 Customer Release Note

System Release PTP 250-02-11

Wednesday, April 25th, 2012

Document Reference: phn-2778_001v000



1 INTRODUCTION

This document provides information for the Cambium Networks PTP 250 Series System Release PTP 250-02-11.

Software updates for PTP products are available from

www.cambiumnetworks.com/support/ptp/software

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2 PTP 250 VARIANTS

This release of software supports the following variants:

VARIANT	REGION	FREQUENCY COVERAGE	Encryption
PTP 250 Integrated (FCC)	FCC / IC	5.4 GHz and 5.8 GHz bands *	128-bit AES
PTP 250 Connectorised (FCC)	FCC / IC	5.4 GHz and 5.8 GHz bands *	128-bit AES
PTP 250 Integrated (ETSI/RoW)	ETSI / RoW	5.4 GHz and 5.8 GHz bands	Proprietary
PTP 250 Connectorised (ETSI/RoW)	ETSI / RoW	5.4 GHz and 5.8 GHz bands	Proprietary
PTP 250 Integrated (ETSI/RoW) AES-128	ETSI / RoW	5.4 GHz and 5.8 GHz bands	128-bit AES **
PTP 250 Connectorised (ETSI/RoW) AES-128	ETSI / RoW	5.4 GHz and 5.8 GHz bands	128-bit AES **

* The 5.4GHz band in the USA and Canada can only be used with Release 02-01 or later software running on ODU's with new hardware part numbers: C054025B003A, C054025B004A, C054025B007A, C054025B008A

** AES-128 for the ETSI/RoW variant can only be used with Release 02-11 software running on ODU's with new hardware part numbers: C054025B009A, C054025B010A, C054025B011A, C054025B012A.

3 NEW FEATURES IN PTP 250-02-11

3.1 Headline Features

Motorola PTP 250 radios are designed for Ethernet bridging over point-to-point microwave links in the unlicensed bands 5.4 GHz (ETSI Band B) and 5.8 GHz (ETSI Band C and FCC ISM band). The PTP 250 is a wireless Ethernet bridge offering user data rates of up to 256 Mbps aggregate user data rate.

The PTP250 Release 02-11 introduces the following:

- 4 new ETSI/RoW part numbers with full AES-128 encryption enabled. These are introduced to supplement the existing ETSI/RoW SKUs that have proprietary encryption.
 - The new part numbers may be supplied to customers within the EU (and to certain other EUGEA countries, including USA, Canada, Norway, Switzerland, Japan, Australia, New Zealand and Lichtenstein), but cannot be supplied to customers in other countries without an export license. Customers not in the EU or EUGEA country list may be required to obtain an export license for shipments of PTP 250 radios with AES-128, to their country.
 - The new SKUs are identified on the PTP 250 GUI status page as 'Worldwide 5G AES'
- The following bugs are fixed in this release:
 - In Software Release 02-01, untagged broadcast frames are not bridged when Management VLAN is enabled. This is now fixed in Software Release 02-11.
 - In Software Release 02-01, an SNMP read returns an incorrect value for signalStrengthRatio. This is now fixed in Software Release 02-11.

4 KNOWN RESTRICTIONS AND LIMITATIONS IN PTP 250-02-11

Upon upgrade to Release 02-11, it is recommended to run through the “Wireless Wizard” so as to take advantage of the changes introduced in this release.

PTP 250 has the following restrictions in Release 02-11:

- Maximum range is limited to 27km for 40MHz channel size, and limited to 54km for 20MHz channel size.
- PTP 250 may not always detect other PTP products (PTP 250 / 300 / 400 / 500 / 600) operating on the same channel. Therefore it is recommended that customers use frequency planning when co-locating PTP 250 radios with other PTP radios on the same mast. In the case where a PTP 250 radio is operating on the same channel as another PTP radio in close proximity, the PTP 250 radio may operate with reduced throughput.
- When operating in ETSI 5.8GHz radar channels at 40MHz, the link will show an increased latency (~8ms) for an unloaded link. This is most likely to be noticed by a ping latency test if there is no background traffic over the link. The throughput and latency are not degraded during radio operation with data traffic.

5 TECHNICAL SUPPORT

Please visit our support pages at www.cambiumnetworks.com/support/ptp

Or contact the Cambium Networks Technical helpdesk on one of the following numbers

North America +1 866-961-9288

Denmark	043682114	Australia	1 800 457 439
France	0157323434	China - Northern	10 800 713 0885
Germany	06950070204	China - Southern	10 800 130 0867
Italy	0291483230	China - local DID	+86 21 6108 6109
Lithuania	800 030 828	Hong Kong	30 027 861
Netherlands	0202061404	India	000 800 100 3098
Norway	24159815	Japan	221626765
Portugal	0217616160	Japan (PSTN)	(81) 335 708 643
Spain	912754787	Korea South	080 681 0880
Russia	810 800 228 41044	Malaysia	1 800 812 384
Saudi Arabia	800 844 5345	New Zealand	0 800 448 472
South Africa	0800981900	Phillipines	63 29 003 057
United Kingdom	0203 0277499	Singapore	64 155 110
All other countries:	+44 203 0277499	Taiwan	00 801 14 8690
		Thailand	001 800 441 0950
		Indonesia	001 803 015 20 20530
Argentina	0800-666-2789	All countries:	+420 533 336 946
Brazil	0800-891-4360		
Chile	800-225-288		
Columbia	01-800-912-0557		
Mexico	001-800-942-7721		
Peru	0800-70-086		
All other countries:	+420 533 336 946		

Cambium Networks

Cambium Networks provide professional grade fixed wireless broadband and microwave solutions for customers around the world. Our solutions are deployed in thousands of networks in over 153 countries, with our innovative technologies providing reliable, secure, cost-effective connectivity that's easy to deploy and proven to deliver outstanding metrics.

Our award-winning Orthogon Point to Point (PTP) radio solutions operate in licensed, unlicensed and defined use frequency bands including specific FIPS 140-2 solutions for the U.S. Federal market. Ruggedized for 99.999% availability, our Orthogon solutions have an impeccable track record for delivering reliable high-speed backhaul connectivity even in the most challenging non-line-of-sight RF environments.

Our flexible Canopy Point-to-Multipoint (PMP) solutions operate in the licensed, unlicensed and federal frequency bands, providing reliable, secure, cost effective access networks. With more than three million modules deployed in networks around the world, our Canopy access network solutions prove themselves day-in and day-out in residential access, leased line replacement, video surveillance and smart grid infrastructure applications.

Our Rapid Deployment Broadband (RDB) solutions provide highly reliable broadband connectivity for U.S. Federal applications. Based on our field proven technology, these solutions are designed to meet stringent performance, security and environmental requirements for special applications.

Cambium Networks' Orthogon, Canopy and RDB solutions are proven, respected leaders in the wireless broadband industry. We design, deploy and deliver innovative data, voice and video connectivity solutions that enable and ensure the communications of life, empowering personal, commercial and community growth virtually everywhere in the world.