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<b>Subject:</b>	Introduction of cnPulse™ and End of Life Notice for uGPS		

**1. Notice:**

This notice introduces the new TDD synchronization solution from Cambium Networks. The new module, cnPulse, replaces the uGPS which is going end of life.

**First Available Ship Date:** December 14, 2018

**Available for Pre-Orders:** November 21, 2018

**2. Marketing Information:**

**IMPORTANT:** cnPulse will be publicly announced on December 4, 2018. Do not publicly advertise this product until after Cambium Networks' public launch. A cnPulse specification sheet and product imagery is available on the channel portal. Go to the Asset Library > Products > Accessories > Synchronization or click links below.

- [Spec Sheet](#)
- [JPG Image](#)
- [PNG Image](#)

**Marketing Copy:**
**cnPulse™ Sync Generator**

TDD synchronization is critical for deploying dense, scalable wireless networks, whether in a PTP or PMP topology. One typical source for synchronization is the GPS satellite signal, which carries a precise one pulse per second (1PPS) clock. Using this clock, wireless networks can synchronize the start and stop time of all transmissions. By synchronizing the transmit and receive signals, each Access Point isn't transmitting while its neighbor is receiving, thereby reducing self-interference, increasing spectral efficiency, and enabling much more dense network deployments.

cnPulse is the latest GPS synchronization generation device designed specifically for Cambium Networks PMP and PTP radios. The cnPulse module is IP67 (weatherproof and supports a wide temperature range for rugged environments). The GPS receiver is highly reliable and supports both GPS and GNSS signals.

cnPulse can be deployed in two alternative ways. There are no configuration or software settings required.

- **Mode 1: AUX Serial Mode (uses cnPulse port 1):** cnPulse derives power input from the radio or CMM port and returns the 1PPS signal and satellite statistics on port 1. Mode 1 is typically used on CMM5, cnReach, and the AUX ports on PMP 450i, PMP450m, or PTP 450i.
- **Mode 2: CambiumSYNC In-line Mode (uses cnPulse port 2 and port 3):** cnPulse is deployed in-line with the radio's CAT-5 drop cable. cnPulse receives power (and data) from the ODU's PoE power injector on port 3. cnPulse port 2 then outputs PoE+Data+CambiumSYNC to the main input on a radio. Mode 2 is typically used on PTP 550, ePMP™ 2000, and ePMP 3000.

### 3. Part Numbers Available for Booking:

Note: These SKUs are not eligible for stock rotation.

Part Number	Description	MSRP (USD)	Price Group	Effective Date	Shipping Weight	Shipping Dimensions	HTS Code	COO	ECCN	Box Count	Deal Reg Eligible?	Demo Program	MDP
C000000L066A	cnPulse Sync Generator with CambiumSYNC	\$279	WW Accy	December 15, 2018	1.05 lb (0.48 kg)	8in. x 5.5in x 4.125in (20.3 cm x 14.0 cm x 10.5 cm)	US: 8529.10.4040 EU: 8526.91.8090	Mexico	5A991	1	N	N	N
N000000L125A	CMM5 to cnPulse Shielded Cable – 20m	\$79	WW Accy	December 15, 2018	1.98 lbs. (0.9 kg)	2in. x 12.6in. x 12.6in. (5 cm x 32 cm x 32 cm)	US: 8544.42.2000 EU: 8544.42.1000	Mexico	EAR99	1	N	N	N

### 4. Part Numbers with End-of-Life Announcements:

Limited quantities of the 1096K are available. Orders will be fulfilled until stock is depleted.

Part Number	Description	MSRP (USD)	Last Order Date
1096H	UNIVERSAL GPS MODULE	\$349	December 14, 2018
1096J	UNIVERSAL GPS MODULE	\$349	December 14, 2018
1096K	UNIVERSAL GPS MODULE	\$349	December 14, 2018

### 5. FAQ:

Q.	Since the uGPS is no longer available, what is the alternative?
A.	The new cnPulse product is the replacement for uGPS and is now available for pre-order.

<b>Q.</b>	<b>Is there any change to the cabling for the cnPulse vs the uGPS</b>
<b>A.</b>	Yes, cnPulse has RJ-45 connections for the data ports compared to the uGPS, which had 6-pin RJ-12 connections. For connecting a cnPulse to the AUX port of a PMP 450i radio, a straight-through CAT-5E RJ-45 cable can be used. For CMM5 applications, a new cable is required that converts the RJ-45 connection on cnPulse to the 6-pin connection on the CMM5.

**6. Reference Material on the Web:**

Cambium Networks Website: [www.cambiumnetworks.com](http://www.cambiumnetworks.com)

Cambium ConnectedPartner portal: <https://channel.cambiumnetworks.com/>

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