

### **Product Leaflet for Cambium Networks cnPulse™ Sync Generator (English)**

**Intended Use:** cnPulse is the latest GPS synchronization generation device designed specifically for Cambium Networks PMP and PTP radios. The cnPulse module is IP67 weather proof and supports a wide temperature range for operation in rugged environments. The GPS receiver is highly reliable and supports both GPS and GNSS signals.. This equipment is intended for professional applications for fixed outdoor installations only.

**Installation and Operation:** Installation and operation of this product is complex, Cambium therefore recommends professional installation and management of the system. Please follow the instructions in this leaflet. Further guidance on installation and operation is available in the product *Quick Start Guide*, which can be found online at the link below.

The installer must have sufficient skills, knowledge, and experience to perform the installation task and is responsible for:

- Familiarity with current applicable national regulations including radio regulations, electrical installation regulations, surge protection regulations and 'working at heights' regulations Installation in accordance with Cambium Networks' instructions

### **Product Safety Information:**

The following general safety guidelines are provided to help ensure your own personal safety and protect your product from potential damage. Remember to consult the product *User Guide* for more details. Please observe the following safety rules:

- Ensure that the Outdoor Unit (ODU) and the structure to which it is mounted is capable of withstanding the maximum wind speeds at a proposed site.
- Exercise extreme care when working at heights. Observe national 'working at heights' regulations. Use trained 'competent' staff.
- Exercise extreme care when working near power lines.
- Static electricity can be harmful to electronic components. Discharge static electricity from your body (i.e., touch grounded bare metal) before touching the product. Ensure that the product is properly grounded.
- Ensure that the equipment is not powered during installation. Always disconnect equipment from its power source before servicing.
  - Structures, equipment and people must be protected against electrostatic discharge by siting equipment in a lightning protection zone and installation of appropriate lightning conductors to conduct the surge current to ground via a separate preferential solid path.
- ground bonding and transient voltage surge suppression are required. Use Cambium specified surge suppressors. Always use a qualified electrician to install cabling.
- Use outdoor-rated cables for connections that will be exposed to the outdoor environment.

### **Operation in the EU – Restrictions:**

- Outdoor use only.
- Compliant with CISPR32 Class B

**Waste Electrical and Electronic Equipment (WEEE) Directive:** Please do not dispose of electronic and electric equipment or electronic and electric accessories with your household waste. In some countries or regions, collection systems have been set up to handle waste of electrical and electronic equipment. If you reside in European Union countries, please contact your local equipment supplier representative or the Cambium Networks Support Center for information about the waste collection system in your country.



### **Useful Web Links:-**

- User Guides: <https://www.cambiumnetworks.com/guides>
- Technical Training: <https://learning.cambiumnetworks.com>
- Cambium Support Center: <https://support.cambiumnetworks.com/>
- EU Declaration of Conformity: [http://www.cambiumnetworks.com/eu\\_dofc](http://www.cambiumnetworks.com/eu_dofc)

**Equipment Manufacturer:** Cambium Networks Ltd, Unit B2 Linhay Business Park, Eastern Road, Ashburton, Devon, TQ13 7UP, United Kingdom

**Package Contents:** cnPulse Injector, mounting bracket, 4 x screws, quick-start guide

AUX Output - PORT1	ODU Output - PORT2	PIDU Input - PORT3
RJ-45 8-pin shielded	RJ-45 8-pin shielded	RJ-45 8-pin shielded
1PPS Timing Out	PoE + CambiumSYNC OUT (44V - 59V DC)	PoE IN (44V - 59V DC)
Powered from ODU AUX Port or CMM5 Sync In Port (0.5W max power consumption)	Gb Ethernet Passthrough	Powered from PoE Source (4.0W max power consumption)
GPS Stats to ODU or CMM5		Gb Ethernet Passthrough
<u>Supported Devices:</u>	<u>Supported Devices:</u>	<u>Input Sources Supported</u>
<ul style="list-style-type: none"> <li>PMP 450i/450m/450</li> <li>CMM5 (RJ45 to R12 – Use N000000L125A cable)</li> <li>CMM4 SYNC IN (RJ45 to R12)</li> </ul>	<ul style="list-style-type: none"> <li>PMP 450i/450m</li> <li>PTP 550</li> <li>ePMP 2000 / ePMP 3000</li> </ul>	<ul style="list-style-type: none"> <li>PoE Switch, 802.3af/at/bt</li> <li>PoE Injector AC Adapter (Mode A/B Power)</li> </ul>

