

# Cambium Networks C800085B001A PTP 850E Radio, 10Gbps, Hi, Tx 81-86GHz, Rx 71-76GHz

SKU: WIF-CB-00003

MPN: C800085B001A

## Description

Cambium's PTP 850E is a single core E-band packet microwave radio capable of L2 data rates up to 10 Gb/s over short ranges. 850E is capable of running 512QAM in channel sizes up to 2 GHz.

PTP 850E is a lightly-licensed microwave solution capable of operating in the 70 GHz band (71 to 76 GHz) and 80 GHz band (81 to 86 GHz). An annual spectrum license is purchased from the national regulating body to guarantee interference-free data connectivity. Within Australia and many other ETSI-harmonised countries, the E-band is self-coordinated allowing designers to self-regulate radio positioning.

As an all-packet radio, Cambium 850E connects using -48 Vdc Passive PoE, with SFP/SFP+/QSFP interfaces for data. The durable all-ODU form-factor has a direct mount antenna (separate part number) which can also support XPIC through insertion of an OMT.

The C800085B001A (Radio Hi) part number pairs with a C800085B002A (Radio Lo).



## Cambium Networks

Cambium Networks enables service providers; enterprises; governmental and military agencies; oil, gas and utility companies; Internet service providers; and public safety organizations to build powerful communications networks, reach users from 200 kilometers across mountain tops down to their devices, and intelligently manage their business Wi-Fi infrastructure through end-to-end network ...

# Network Interfaces

## Wireless Interfaces

Topology:	Point-to-Point (P2P)	Max. Clients:	1
Max. Throughput:	9940 Mb/s	Aggregate Channel Width:	2000 MHz

## E-Band mmWave

Transmit Power:	20 dBm	Receive Sensitivity:	-81.8 dBm
Agg. Data Rate:	19880 Mb/s	Agg. Channel Width:	4000 MHz

Wireless Bands	Path Mode	Start Frequency	Stop Frequency	MIMO	Channel Width	Modulation	Max. Data Rate
60-80 GHz	Transmit	81000 MHz	86000 MHz	1x1 SISO	2000 MHz	512QAM	9940 Mb/s
60-80 GHz	Receive	71000 MHz	76000 MHz	1x1 SISO	2000 MHz	512QAM	9940 Mb/s

## RF Connections

Quantity	Waveguide Size	Waveguide Flange	Notes
1	R740 / WR12 / WG26	EIA UG	UG-387/U

## Ethernet Interfaces

Interface	Quantity	Function	Signalling	PoE Input
RJ45 Copper	1	P2: Management/PoE	100BASE-T, 1000BASE-T	Passive PoE
SFP Fibre/Copper	1	P3: SFP Cage	1000BASE-T, 1000BASE-X, 2.5GBASE-T	
QSFP	1	P4: QSFP Cage (4x Ethernet)	1000BASE-X, 10GBASE-T, 10GBASE-X, 40GBASE-X	
SFP Fibre/Copper	1	P5: SFP+ Cage	10GBASE-T, 10GBASE-X	

# Physical Specification

Subtype:	Wireless Bridge	Dimensions:	270 × 86 × 322 mm
Min. Operating Temperature:	-33 °C	Weight:	5.5 kg
Max. Operating Temperature:	55 °C	Materials:	Aluminium
Ingress Protection:	IP67	Mounting:	Pole 114 mm , Pole 89 mm
		Compliance/Certifications:	CE , RCM

## Power Specifications

Max. Consumption:	58 W	Typical Consumption:	47 W
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## Power Interface

Power Connector	Nominal Voltage	Min. Input Voltage	Max. Input Voltage	Voltage Type
Terminal Block, 2-Position	-48 V	-40.5 V	-60 V	DC

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