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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. Throughput

9940 Mb/s

Max. Clients

1

Aggregate Channel Width

2000 MHz

E-Band mmWave

Transmit Power

20 dBm

Agg. Data Rate

19880 Mb/s

Receive Sensitivity

-81.8 dBm

Agg. Channel Width

4000 MHz

Wireless Bands	Path Mode	Start Frequency	Stop Frequency	мімо	Channel Width	Modulation	Max. Data Rate
<u>60-80</u> <u>GHz</u>	Transmit	81000 MHz	86000 MHz	<u>1x1</u> <u>SISO</u>	2000 MHz	5120AM	9940 Mb/s
60-80 GHz	Receive	71000 MHz	76000 MHz	<u>1x1</u> <u>SISO</u>	2000 MHz	<u>512QAM</u>	9940 Mb/s

RF Connections

Quantity Waveguide Size Waveguide Flange Notes

1 R740 / WR12 / WG26 EIA UG UG-387/U

Ethernet Interfaces

Interface	Ouantity	Function	Signalling	POE
interrace	Quantity	Function	Signaming	Input
RJ45 Copper	1	P2: Management/PoE	100BASE-T, 1000BASE-T	Passive PoE

Interface	e Quantity	, Function	Signalling	PoE Input
SFP Fibre/Coppe	1 <u>er</u>	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/Coppe	er 1	P5: SFP+ Cage	10GBASE-T, 10GBASE-X	

Physical Specification

Subtype

Wireless Bridge

Min. Operating Temperature

-33 °C

Max. Operating Temperature

55 °C

Ingress Protection

IP67

Dimensions

270 × 86 × 322 mm

Weight

5.5 kg

Materials

Aluminium

Mounting

Pole 114 mm ø

,

Pole 89 mm ø

Compliance/Certifications

CE

,

RCM

Power Specifications

Max. Consumption

58 W

Typical Consumption

47 W

Power Interface

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

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