Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

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

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	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	

Interface	Quantity	Function	Signalling	PoE Input
SFP Fibre/Copper	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 ⌀
,
Pole 89 mm ⌀
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-Position	-48 V	-40.5 V	-60 V	DC

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