

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.

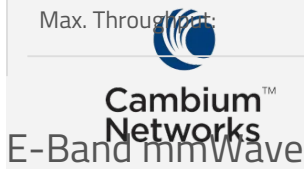
The C800085B001A (Radio Hi) part number pairs with a C800085B002A (Radio Lo).



Network Interfaces

Wireless Interfaces

| | | | |
|------------------|----------------------|--------------------------|----------|
| Topology: | Point-to-Point (P2P) | Max. Clients: | 1 |
| Max. Throughput: | 9940 Mbps | Aggregate Channel Width: | 2000 MHz |



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 ...

| | | | |
|-----------------|--------|----------------------|-----------|
| 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 |
|-------------------|------|----------------------|------|

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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