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# Cambium C050045C001B PMP 450i 5 GHz Subscriber, Connectorised, 300 Mbps

SKU: WIF-CB-00266 MPN: C050045C001B

#### Description

Cambium's 5 GHz PMP 450i subscriber provides high performance wireless data connectivity by connecting back to a PMP 450i Access Point. The C050045C001B unit has two N Female connectors for attachment of external antenna, allowing each unit to be paired with an appropriate antenna for its respective distance from the Access Point.

Coupling its 40 MHz channel width with a peak modulation scheme of 256QAM the PMP 450i can provide beyond 300 Mb/s L1 throughput (theoretically as high as 450 Mb/s). The 450i system touts a maximum range of 64 kilometers (subject to regulatory conditions).

PMP 450i 5 GHz is one of few industrial grade multipoint solutions. The system is the choice of major mining and telecommunications companies where performance cannot be compromised. The unit is IP67 rated for harsh operating environment and claims a mean-time-between-failure of over 40 years.

#### Read More

The connectorised Subscriber Module (SM) is compatible with any 5 GHz dual polarised antenna, allowing it to be paired with high gain parabolic antennas for long range applications, or compact patch array antennas for short to medium range connectivity.





#### 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 ...

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## **Network Interfaces**

| Topology:        | Multipoint Terminal/Subscriber | r Max. Clients:          | 1      |
|------------------|--------------------------------|--------------------------|--------|
| Max. Throughput: | 300 Mb/s                       | Latency:                 | 5 ms   |
| Encryption:      | AES-128                        | Aggregate Channel Width: | 40 MHz |
| Transmit Power:  | 28 dBm                         |                          |        |

Wireless Bands Path Mode Start Frequency Stop Frequency MIMO Channel Width Modulation Max. Data Rate
5 GHz TDD 4900 MHz 5925 MHz 2x2 MIMO 40 MHz 256QAM 300 Mb/s

### **RF Connections**

| RF Connector Function | Quantity | RF Interface | Notes                              |
|-----------------------|----------|--------------|------------------------------------|
| Wireless Link         | 2        | N Female     | 1x Vertical Pol, 1x Horizontal Pol |
|                       |          |              |                                    |

#### Ethernet Interfaces

| Interface   | Quantity | Function      | Signalling            | PoE Input    | PoE Output   |
|-------------|----------|---------------|-----------------------|--------------|--------------|
| RJ45 Copper | 1        | Data + PoE In | 100BASE-T, 1000BASE-T | 802.3at PoE+ |              |
| RJ45 Copper | 1        | Aux + PoE Out | 100BASE-T, 1000BASE-T |              | 802.3at PoE+ |

# **Physical Specification**

| Subtype:                    | Wireless Bridge | Dimensions:                | 64 × 134 × 264 mm        |
|-----------------------------|-----------------|----------------------------|--------------------------|
| Min. Operating Temperature: | -40 °C          | Weight:                    | 2 kg                     |
| Max. Operating Temperature: | 75 °C           | Materials:                 | Aluminium Die Cast       |
| Ingress Protection:         | IP67            | Mounting:                  | Cambium 4/8-Bolt Pattern |
| MTBF:                       | > 350000 h      | Compliance/Certifications: | R-NZ                     |
|                             |                 | RCM                        | ,                        |

## **Power Specifications**

Max. Consumption: 18 W Typical Consumption: 15 W

Power Options: Power over Ethernet

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