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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.

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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.

At 5 GHz weatherproofing both exposed N connectors is critical. We strongly recommend the use of Commscope weatherproofing kits with this model.

To prevent bird attack we recommend the use of 3/8" corrugated N jumper cables (ensure 6 GHz cutoff).

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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
Multipoint Terminal/Subscriber
Max. Throughput
300 Mb/s
Encryption
AES-128
Max. Clients
1
Latency
5 ms
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
Min. Operating Temperature
-40 °C
Max. Operating Temperature

75 °C
Ingress Protection
IP67
MTBF
> 350000 h
Dimensions
64 × 134 × 264 mm
Weight
2 kg
Materials
Aluminium Die Cast
Mounting
Cambium 4/8-Bolt Pattern
Compliance/Certifications
R-NZ
,
RCM
Power Specifications
Max. Consumption
18 W
Power Options
Power over Ethernet
Typical Consumption
15 W

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