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Cambium ePMP Force 300-19R 5 GHz Subscriber/PTP Radio, 600 Mbps

SKU
WIF-CB-00023
MPN
C050900C913A

Description

Cambium's ePMP Force 300 are a third generation multipoint subscriber radio designed as an economical solution for point-to-multipoint applications.

Combining the latest 802.11ac Wave 2 chipset and the field proven TDD MAC of ePMP, the Force 300-19R offers an affordable point to point product and a mid range subscriber module for the ePMP 3000 and ePMP 3000L Access Points.

The unit has an ingress protection rating of IP68, permitting reliable operation in harsh conditions.

Force 300-19R provides medium range connectivity with minimal points of failure with its 19 dBi all-integrated antenna. Supporting modulation up to 256QAM in 2x2 MIMO the subscriber is capable of peak throughput up to 600 Mb/s

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Force 300 radios are designed to connect to ePMP 3000 series wireless access points. The subscriber's in-built 19 dBi antenna permits high data speeds within 1-2 kilometres and basic connectivity several kilometres further. Actual achieved data rates will of course depend on channel conditions and environment.

The unit is powered by proprietary Cambium 30 V PoE.

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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, Point-to-Point (P2P)
Max. Throughput
600 Mb/s
Encryption
AES-128
Max. Clients
1
Latency
5 ms
Aggregate Channel Width
80 MHz
Transmit Power
28 dBm
Receive Sensitivity
-89 dBm

Wireless Bands	Path Mode	Start Frequency	Stop Frequency	MIMO	Channel Width	Modulation	Max. Data Rate
5 GHz	TDD	4910 MHz	6080 MHz	2x2 MIMO	80 MHz	256QAM	600 Mb/s

Ethernet Interfaces

Interface	Quantity	Function	Signalling	PoE Input
RJ45 Copper	1	Data & PoE Input	100BASE-T, 1000BASE-T	Cambium 30 Vdc

Antenna Specifications
Start Frequency
4910 MHz
Stop Frequency
6080 MHz
Polarisation
Dual Pol (V, H)
Input Impedance
50 Ω
Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	Azimuth	Elevation	XPD
4910 MHz	6080 MHz	19 dBi	14.5°	12.5°	> 15 dB

Physical Specification

Subtype
Wireless Bridge
Min. Operating Temperature
-30 °C
Max. Operating Temperature
60 °C
Ingress Protection
IP68
Dimensions
45 × 278 × 278 mm
Weight
1.45 kg
Materials
Plastic
Mounting
Pole Clamp 25 to 41 mm ⌀
Compliance/Certifications
R-NZ
,
RCM
Power Specifications
Max. Consumption
15 W
Power Options
Power over Ethernet
Typical Consumption
12 W

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