

Cambium ePMP Force 300-16 5 GHz Subscriber, 600 Mbps

SKU: WIF-CB-00046
 MPN: C050910C811A

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 300-16 offers an affordable point to point product and a mid range subscriber module for the ePMP 3000 and ePMP 3000L Access Points.

Force 300-16 continues the tradition of previous products with a 16 dBi integrated antenna with a narrow beamwidth and reliable mechanics. 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 16 dBi antenna permits high data speeds within a kilometre and basic connectivity several kilometres further. Actual achieved data rates will of course depend on channel conditions and environment.



Network Interfaces

Wireless Interfaces

Topology:	Multipoint Terminal/Subscriber	Max. Clients:	1
Max. Throughput:	600 Mb/s	Latency:	5 ms
Encryption:	AES-128	Aggregate Channel Width:	80 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:

29 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	60 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

Polarisation:

Dual Pol (V, H)

Stop Frequency:

6080 MHz

Input Impedance:

50

Frequency Test Data

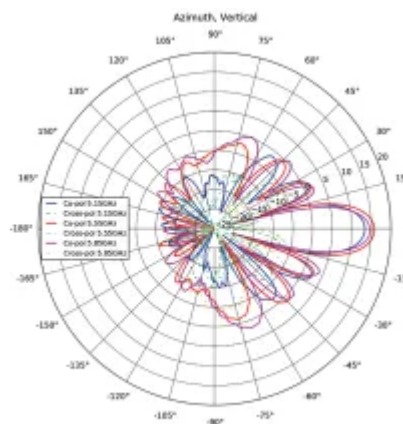
Start Freq.	Stop Freq.	Peak Gain	Azimuth	Elevation	XPD
4910 MHz	6080 MHz	16 dBi	15°	30°	> 15 dB

Polar Patterns

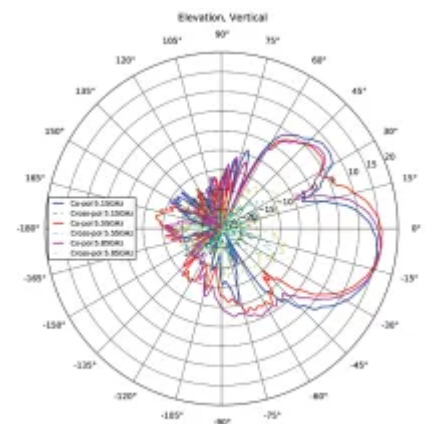
Start Frequency: 5150 MHz

Stop Frequency: 5850 MHz

Azimuth Polar Plot



Elevation Polar Plot



Physical Specification

Subtype:	Wireless Bridge	Dimensions:	119 × 251 × 124 mm
Min. Operating Temperature:	-30 °C	Weight:	0.5 kg
Max. Operating Temperature:	60 °C	Mounting:	Pole Clamp 25 to 41 mm
Ingress Protection:	IP55	Compliance/Certifications:	R-NZ , RCM

Power Specifications

Max. Consumption:	15 W	Typical Consumption:	12 W
Power Options:	Power over Ethernet		

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