

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

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## 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.



## 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. Clients:		1	
Max. Throughput:		600 Mb/s		Latency:		5 ms	
Encryption:		AES-128		Aggregate Channel Width:		80 MHz	
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

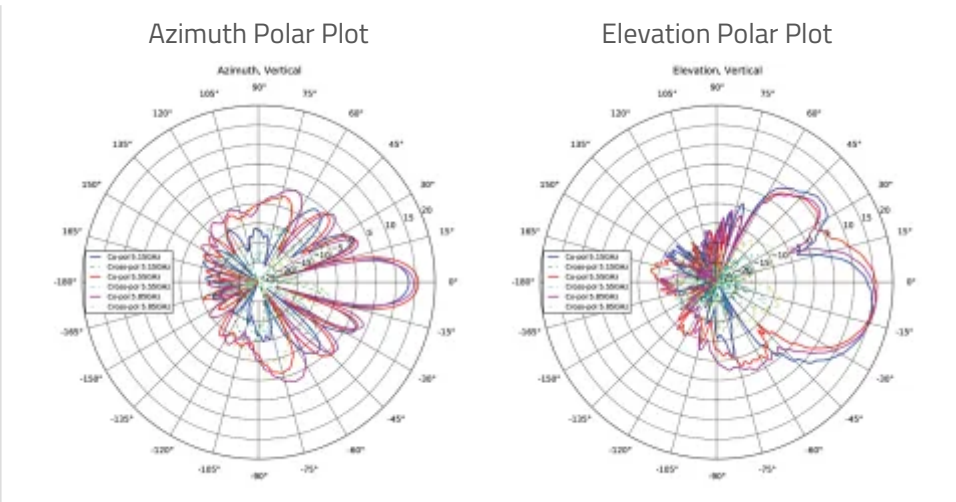
Start Frequency:	4910 MHz	Polarisation:	Dual Pol (V, H)
Stop Frequency:	6080 MHz	Input Impedance:	50

## 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



# 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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