

# Cambium ePMP Force 300-19R 5 GHz Subscriber/PTP Radio, 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 300-19R 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.



## 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
	Point-to-Point (P2P)	Latency:	5 ms
Max. Throughput:	600 Mb/s	Aggregate Channel Width:	80 MHz
Encryption:	AES-128		
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	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	19 dBi	14.5°	12.5°	> 15 dB

# Physical Specification

Subtype:	Wireless Bridge	Dimensions:	45 × 278 × 278 mm
Min. Operating Temperature:	-30 °C	Weight:	1.45 kg
Max. Operating Temperature:	60 °C	Materials:	Plastic
Ingress Protection:	IP68	Mounting:	Pole Clamp 25 to 41 mm
		Compliance/Certifications:	R-NZ , RCM

## Power Specifications

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

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