

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.



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

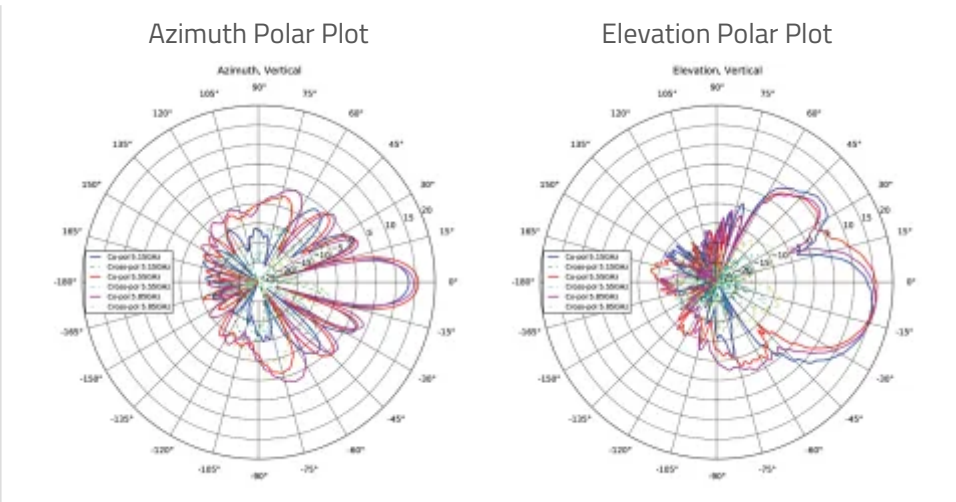
| | | | |
|------------------|----------|------------------|-----------------|
| Start Frequency: | 4910 MHz | Polarisation: | Dual Pol (V, H) |
| Stop Frequency: | 6080 MHz | Input Impedance: | 50 |

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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