

ePMP™ Force 300 Series

QUICK LOOK:

- **Broad selection of high-performance subscriber modules for point-to-point and point-to-multipoint fixed wireless broadband applications**
- **Up to 600 Mbps capacity and up to 80 MHz channels leveraging proven protocols on 802.11ac Wave 2 technology**
- **Compatible with 3000 Series Access Points for MU-MIMO performance and with backward compatibility to 1000/2000 Access Points for ease of migration**
- **3-year hardware warranty**



Service providers face ever-increasing demand for capacity in a limited amount of spectrum. The Force 300 series of subscriber modules (SM) meets this demand offering high performance and low latency across both point-to-multipoint and point-to-point deployments.

Force 300 SM series offers a wide range of antenna options but they all feature the following differentiating features:

- Up to 600 Mbps capacity and latencies as low as 2 ms when using ePTP technology.
- Proven air interface on top of 802.11ac Wave 2 technology
- Interoperability with the 3000, which uses MU-MIMO to achieve 1.2 Gbps per sector by transmitting to two Force 300 SM's simultaneously.
- Interoperability with 3000L, MP 3000 MicroPOP and backward compatibility with the 2000 and 1000.
- Integrated always-on spectrum analyzer for assessing the noise floor across a wide swath of 5 GHz spectrum.
- Multiple levels of QoS (Quality of Service) for voice, video and data applications supporting a wide variety of service packages for both residential and enterprise users.
- Security features meeting the requirements of enterprise, industrial, government and service provider users.
- Management by Cambium Networks cnMaestro™ element management system for easy provisioning, monitoring and upgrades.
- Network planning with LINKPlanner and cnHeat.
- 3-year hardware warranty and support from Cambium Networks.
- Each SM comes with a Power over Ethernet injector and pole mount hardware included.



ePMP™ Force 300 Series

Spectrum

Specs in this table apply to all models, except where noted.

Available Models Force 300-13, Force 300-16, Force 300-19, Force 300-19R, Force 300-25, Force 300 CSM

Channel Width MHz 20 | 40 | 80
300-19R: 5 | 10 | 20 | 40 | 80

Proprietary Physical Layer Air Interface on top of 802.11ac Wave 2 technology (2x2 MIMO/OFDM)

Channel Spacing Configurable in 5 MHz increments

Frequency Range Wide Band Operation 4910 - 5970 MHz (Note: Allowable frequencies and bands are dictated by individual country regulations.)
300 CSM: 4910-6135 MHz (Note: Allowable frequencies and bands are dictated by individual country regulations.)

MAC Layer (Media Access Control) Cambium Proprietary

Ethernet Interfaced 10/100/1000 BaseT, Compatible with Cambium PoE & Standard PoE pinouts

Protocols Used IPv4/IPv6 (Dual Stack), UDP, TCP, ICMP, SNMPv2c, NTP, STP, IGMP, SSH

Network Management IPv4/IPv6, HTTPs, SNMPv2c, SSH, Cambium Networks cnMaestro™

VLAN 802.1Q with 802.1p priority

Performance

	Force 300-13	Force 300-16	Force 300-19	Force 300-19R	Force 300-25	Force 300 CSM
ARQ	Yes	Yes	Yes	Yes	Yes	Yes
Nominal Receive Sensitivity (w/FEC) @20 MHz Channel	MCS 0 = -89 dBm to MCS 8 (256 QAM-3/4) = -68 dBm (per chain)	MCS 0 = -89 dBm to MCS 8 (256 QAM-3/4) = -66 dBm (per chain)	MCS 0 = -89 dBm to MCS 8 (256 QAM-3/4) = -68 dBm (per chain)	MCS 0 = -89 dBm to MCS 8 (256 QAM-3/4) = -68 dBm (per chain)	MCS 0 = -87 dBm to MCS 8 (256 QAM-3/4) = -63 dBm (per chain)	MCS 0 = -89 dBm to MCS 8 (256 QAM-3/4) = -66 dBm (per chain)
Nominal Receive Sensitivity (w/FEC) @40 MHz Channel	MCS 0 = -87 dBm to MCS 9 (256 QAM-5/6) = -66 dBm (per chain)	MCS 0 = -87 dBm to MCS 9 (256 QAM-5/6) = -64 dBm (per chain)	MCS 0 = -87 dBm to MCS 9 (256 QAM-5/6) = -66 dBm (per chain)	MCS 0 = -87 dBm to MCS 9 (256 QAM-5/6) = -66 dBm (per chain)	MCS 0 = -85 dBm to MCS 9 (256 QAM-5/6) = -59 dBm (per chain)	MCS 0 = -87 dBm to MCS 9 (256 QAM-5/6) = -64 dBm (per chain)
Nominal Receive Sensitivity (w/FEC) @80 MHz Channel	MCS 0 = -84 dBm to MCS 9 (256 QAM-5/6) = -61 dBm (per chain)	MCS 0 = -84 dBm to MCS 9 (256 QAM-5/6) = -59 dBm (per chain)	MCS 0 = -84 dBm to MCS 9 (256 QAM-5/6) = -61 dBm (per chain)	MCS 0 = -84 dBm to MCS 9 (256 QAM-5/6) = -61 dBm (per chain)	MCS 0 = -82 dBm to MCS 9 (256 QAM-5/6) = -56 dBm (per chain)	MCS 0 = -84 dBm to MCS 9 (256 QAM-5/6) = -59 dBm (per chain)
Modulation Levels (Adaptive)	MCS 0 (BPSK) to MCS 9 (256 QAM-5/6)	MCS 0 (BPSK) to MCS 9 (256 QAM-5/6)	MCS 0 (BPSK) to MCS 9 (256 QAM-5/6)	MCS 0 (BPSK) to MCS 9 (256 QAM-5/6)	MCS 0 (BPSK) to MCS 9 (256 QAM-5/6)	MCS 0 (BPSK) to MCS 9 (256 QAM-5/6)
Transmit Power Range	0 to +28 dBm (combined, to regional EIRP limit) (1 dB interval)	0 to +29 dBm (combined, to regional EIRP limit) (1 dB interval)	0 to +28 dBm (combined, to regional EIRP limit) (1 dB interval)	0 to +28 dBm (combined, to regional EIRP limit) (1 dB interval)	0 to +27 dBm (combined, to regional EIRP limit) (1 dB interval)	0 to +29 dBm (combined, to regional EIRP limit) (1 dB interval)
QoS (Quality of Service)	Three level priority (Voice, High, Low) with packet classification by DSCP, COS, VLAN ID, IP & MAC Address, Broadcast, Multicast and Station Priority, MIR/CIR* support	Three level priority (Voice, High, Low) with packet classification by DSCP, COS, VLAN ID, IP & MAC Address, Broadcast, Multicast and Station Priority, MIR/CIR* support	Three level priority (Voice, High, Low) with packet classification by DSCP, COS, VLAN ID, IP & MAC Address, Broadcast, Multicast and Station Priority, MIR/CIR* support	Three level priority (Voice, High, Low) with packet classification by DSCP, COS, VLAN ID, IP & MAC Address, Broadcast, Multicast and Station Priority, MIR/CIR* support	Three level priority (Voice, High, Low) with packet classification by DSCP, COS, VLAN ID, IP & MAC Address, Broadcast, Multicast and Station Priority, MIR/CIR* support	Three level priority (Voice, High, Low) with packet classification by DSCP, COS, VLAN ID, IP & MAC Address, Broadcast, Multicast and Station Priority, MIR/CIR* support

ePMP™ Force 300 Series

Physical						
	Force 300-13	Force 300-16	Force 300-19	Force 300-19R	Force 300-25	Force 300 CSM
Surge Suppression*	1 Joule Integrated	1 Joule Integrated	1 Joule Integrated	1 Joule Integrated	1 Joule Integrated	1 Joule Integrated
Environmental	IP55	IP55	IP55	IP67 & IP68	IP55	IP67 & IP68
Temperature	-30°C to 60°C (-22°F to 140°F)	-30°C to 60°C (-22°F to 140°F)	-30°C to 60°C (-22°F to 140°F)	-30°C to 60°C (-22°F to 140°F)	-30°C to 60°C (-22°F to 140°F)	-30°C to 60°C (-22°F to 140°F)
Weight	0.48 kg (1.05 lb) Includes mounting bracket	0.50 kg (1.1 lb) Includes mounting bracket	1.45 kg (3.2 lb) Includes mounting bracket	1.45 kg (3.2 lb) Includes mounting bracket	2.4 kg (5.3 lb) Includes mounting bracket	0.5 kg (1.1 lb) Includes mounting bracket
Wind Survival	180 km/hour (112 mi/hour)	180 km/hour (112 mi/hour)	180 km/hour (112 mi/hour)	180 km/hour (112 mi/hour)	180 km/hour (112 mi/hour)	180 km/hour (112 mi/hour)
Dimensions (Dia x Depth)	13.0 x 20.3 x 5.40 cm (5.1 x 8.0 x 2.1 in) with mounting bracket attached	12.4 x 25.1 x 11.9 cm (4.9 x 9.9 x 4.7 in) with mounting bracket attached	27.8 x 27.8 x 4.5 cm (10.9 x 10.9 x 1.8 in) with mounting bracket attached	27.8 x 27.8 x 4.5 cm (10.9 x 10.9 x 1.8 in) with mounting bracket attached	47 x 31 cm (18.5 x 12.2 in) with mounting bracket attached	84 x 223 x 32 mm (3.3 x 8.8 x 1.3 in) without brackets
Pole Diameter Range	1 - 1.6 in (2.5 - 4.1 cm) with included clamp; up to 2.25 in (5.7 cm) with larger clamp	1 - 1.6 in (2.5 - 4.1 cm) with included clamp; up to 2.25 in (5.7 cm) with larger clamp	1 - 1.6 in (2.5 - 4.1 cm) with included clamp; up to 2.25 in (5.7 cm) with larger clamp	1 - 1.6 in (2.5 - 4.1 cm) with included clamp; up to 2.25 in (5.7 cm) with larger clamp	2.5 - 3 in (6.4 - 7.6 cm) with included clamp	2.5 - 3 in (6.4 - 7.6 cm) with included clamp
Power Consumption	12W (Up to 15 W in extreme cold temperatures when heater is activated.)	12W (Up to 15 W in extreme cold temperatures when heater is activated.)	12W (Up to 15 W in extreme cold temperatures when heater is activated.)	12W (Up to 15 W in extreme cold temperatures when heater is activated.)	12W (Up to 15 W in extreme cold temperatures when heater is activated.)	12W (Up to 15 W in extreme cold temperatures when heater is activated.)
Input Voltage	30V Passive PoE (14–30V DC input)	30V Passive PoE (14–30V DC input)	30V Passive PoE (14–30V DC input)	30V Passive PoE (14–30V DC input)	30V Passive PoE (14–30V DC input)	30V Passive PoE (14–30V DC input)
Note: 14V minimum must be maintained at radio connector under all conditions including long cable lengths						

*Optional 30 V Surge Suppressor Available: Part # C000000L065A

Security	
Encryption	All models: 128-bit AES (CCMP mode)

Certifications						
FCCID	Z8H89FT0048	Z8H-89FT0016**	Z8H89FT0048	Z8H89FT0048	Z8H89FT0017	Z8H-89FT0047
FCC Regulatory Part #	C058900P701A	C058910P112A	C058900P801A	C058900P901A	C058910P102A	C058910C122A
ETSI Regulatory Part #	C050900P704A	C050910P011A	C050900P804A	C050900P904A	C050910P001A	C050910C221A
Industry Canada Cert	109W-0048	109W-0016**	109W-0048	109W-0048	109W-0017	109W-0047
CE	EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)**	EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)**	EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)**	EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)**	EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)**	EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)**

**Certifications are a place holder until official grant is given

ePMP™ Force 300 Series

Antenna Specifications						
	Force 300-13	Force 300-16	Force 300-19	Force 300-19R	Force 300-25	Force 300 CSM
Frequency Range	4910 to 5970 MHz	4910 to 5970 MHz	4910 to 5970 MHz	4910 to 5970 MHz	4910 to 5970 MHz	4910 to 6135 MHz
Antenna Type	Panel	Panel	Panel	Panel	Dish	Connectorized
Peak Gain	13 dBi	16 dBi	19 dBi	19 dBi	25 dBi	n/a
3 dB Beamwidth Azimuth	30°	15°	14.5°	14.5°	6° to 10°	n/a
3 dB Beamwidth Elevation	28°	30°	12.5°	12.5°	6° to 10°	n/a
Front-To-Back Isolation	n/a	n/a	n/a	n/a	25 dB	n/a
Cross Polarization	n/a	n/a	n/a	n/a	25 dB	n/a
Connectors	n/a	n/a	n/a	n/a	n/a	2 x 50 ohm, RP-SMA (Reverse Polarity SMA) Compatible with RF-Elements TwistPort™ Adaptor for



Force 300-13



Force 300-16



Force 300-19



Force 300-19R



Force 300-25

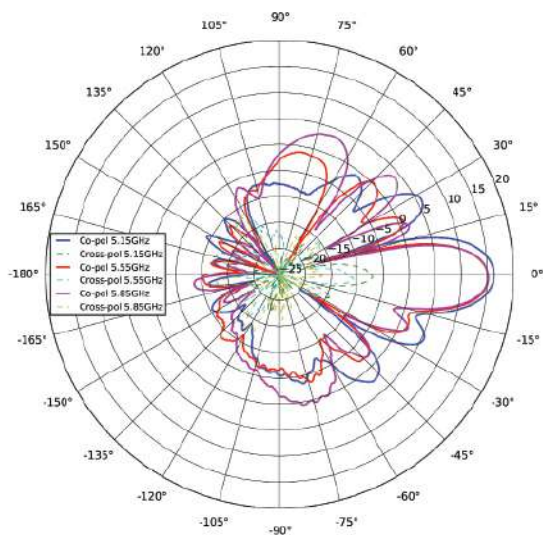


Force 300 CSM

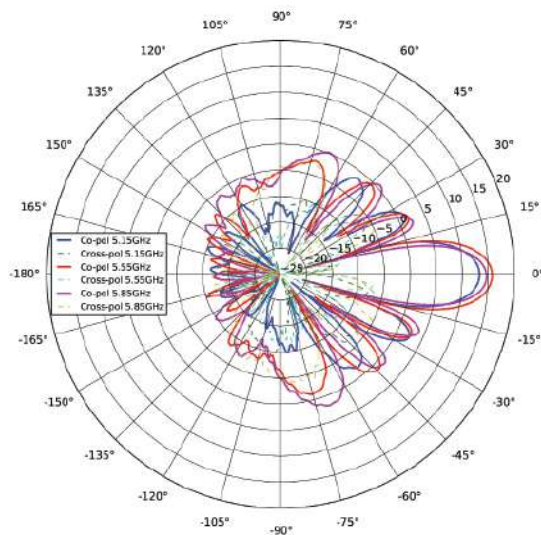
ePMP™ Force 300 Series

Force 300-16 Antenna Patterns

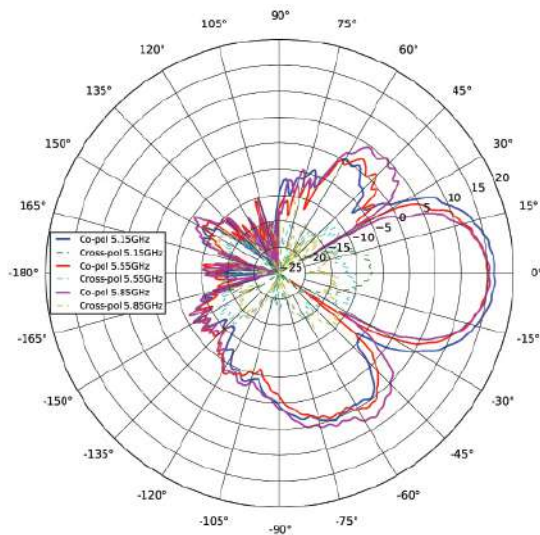
Azimuth, Horizontal



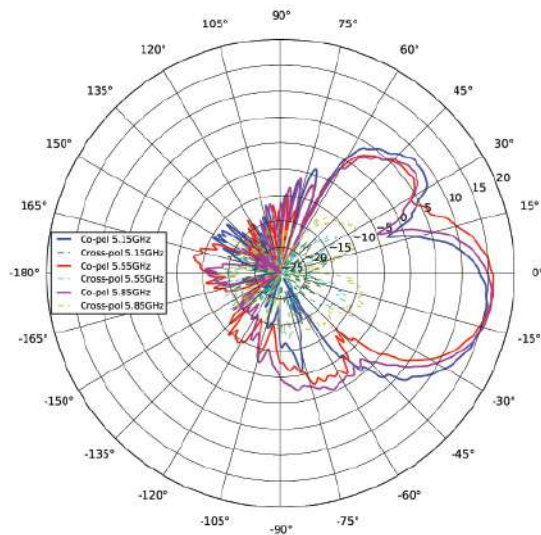
Azimuth, Vertical



Elevation, Horizontal



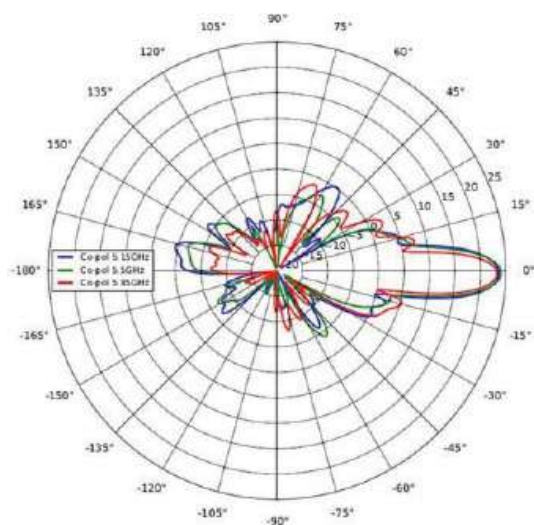
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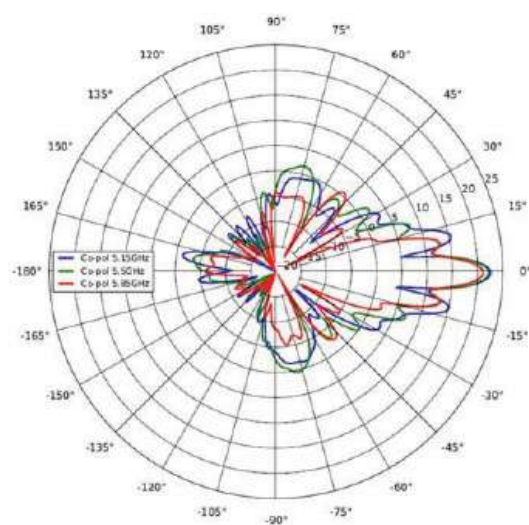
ePMP™ Force 300 Series

Force 300-25 Antenna Patterns

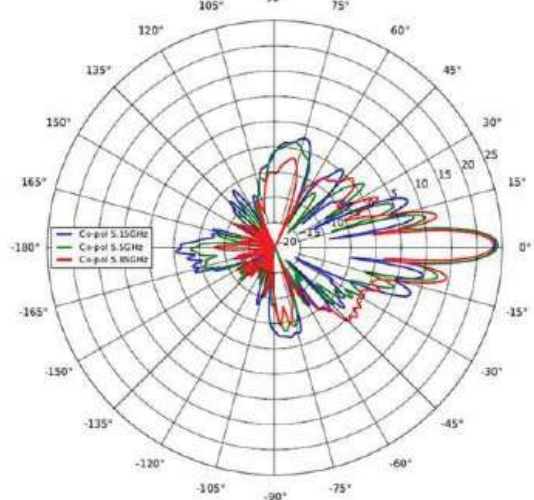
Azimuth, Horizontal



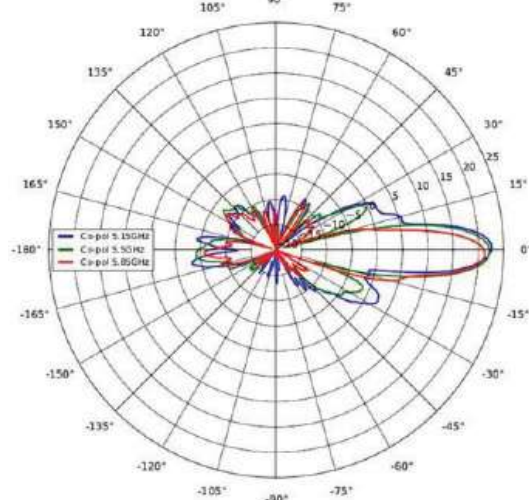
Azimuth, Vertical



Elevation, Horizontal



Elevation, Vertical



ePMP™ Force 300 Series

5 GHz Force 300-13 Ordering Information

C050900C701A	5 GHz Force 300-13 SM (IC) (Canada/US cord)
C050900C702A	5 GHz Force 300-13 SM (EU) (EU cord)
C050900C703A	5 GHz Force 300-13 SM (EU) (UK cord)
C050900C704A	5 GHz Force 300-13 SM (ROW) (no cord)
C050900C705A	5 GHz Force 300-13 SM (ROW) (US cord)
C050900C706A	5 GHz Force 300-13 SM (ROW) (EU cord)
C050900C707A	5 GHz Force 300-13 SM (ROW) (UK cord)
C050900C708A	5 GHz Force 300-13 SM (ROW) (India cord)
C050900C709A	5 GHz Force 300-13 SM (India) (India cord)
C050900C710A	5 GHz Force 300-13 SM (ROW) (China cord)
C050900C711A	5 GHz Force 300-13 SM (ROW) (Brazil cord)
C050900C712A	5 GHz Force 300-13 SM (ROW) (Argentina cord)
C050900C713A	5 GHz Force 300-13 SM (ROW) (ANZ cord)
C050900C714A	5 GHz Force 300-13 SM (ROW) (South Africa cord)
C050900C715A	5 GHz Force 300-13 SM (ROW) (No PSU)
C058900C701A	5 GHz Force 300-13 SM (FCC) (US cord)

5 GHz Force 300-19 Ordering Information

C050900C801A	5 GHz Force 300-19 SM (IC) (Canada/US cord)
C050900C802A	5 GHz Force 300-19 SM (EU) (EU cord)
C050900C803A	5 GHz Force 300-19 SM (EU) (UK cord)
C050900C804A	5 GHz Force 300-19 SM (ROW) (no cord)
C050900C805A	5 GHz Force 300-19 SM (ROW) (US cord)
C050900C806A	5 GHz Force 300-19 SM (ROW) (EU cord)
C050900C807A	5 GHz Force 300-19 SM (ROW) (UK cord)
C050900C808A	5 GHz Force 300-19 SM (ROW) (India cord)
C050900C809A	5 GHz Force 300-19 SM (India) (India cord)
C050900C810A	5 GHz Force 300-19 SM (ROW) (China cord)
C050900C811A	5 GHz Force 300-19 SM (ROW) (Brazil cord)
C050900C812A	5 GHz Force 300-19 SM (ROW) (Argentina cord)
C050900C813A	5 GHz Force 300-19 SM (ROW) (ANZ cord)
C050900C814A	5 GHz Force 300-19 SM (ROW) (South Africa cord)
C050900C815A	5 GHz Force 300-19 SM (ROW) (No PSU)
C058900C801A	5 GHz Force 300-19 SM (FCC) (US cord)

5 GHz Force 300-16 Ordering Information

C050910C011A	5 GHz Force 300-16 Radio (ROW) (no cord)
C050910C111A	5 GHz Force 300-16 Radio (ROW) (US cord)
C050910C114A	5 GHz Force 300-16 Radio (IC) (Canada/US cord)
C050910C211A	5 GHz Force 300-16 Radio (ROW) (EU cord)
C050910C213A	5 GHz Force 300-16 Radio (EU) (EU cord)
C050910C311A	5 GHz Force 300-16 Radio (ROW) (UK cord)
C050910C313A	5 GHz Force 300-16 Radio (EU) (UK cord)
C050910C411A	5 GHz Force 300-16 Radio (ROW) (India cord)
C050910C412A	5 GHz Force 300-16 Radio (India) (India cord)
C050910C511A	5 GHz Force 300-16 Radio (ROW) (China cord)
C050910C611A	5 GHz Force 300-16 Radio (ROW) (Brazil cord)
C050910C711A	5 GHz Force 300-16 Radio (ROW) (Argentina cord)
C050910C811A	5 GHz Force 300-16 Radio (ROW) (ANZ cord)
C050910C911A	5 GHz Force 300-16 Radio (ROW) (South Africa cord)
C050910CZ11A	5 GHz Force 300-16 Radio (ROW) (No PSU)
C058910C112A	5 GHz Force 300-16 Radio (FCC) (US cord)

5 GHz Force 300-19R Ordering Information

C050900C901A	5 GHz Force 300-19R SM (IC) (Canada/US cord)
C050900C902A	5 GHz Force 300-19R SM (EU) (EU cord)
C050900C903A	5 GHz Force 300-19R SM (EU) (UK cord)
C050900C904A	5 GHz Force 300-19R SM (ROW) (no cord)
C050900C905A	5 GHz Force 300-19R SM (ROW) (US cord)
C050900C906A	5 GHz Force 300-19R SM (ROW) (EU cord)
C050900C907A	5 GHz Force 300-19R SM (ROW) (UK cord)
C050900C908A	5 GHz Force 300-19R SM (ROW) (India cord)
C050900C909A	5 GHz Force 300-19R SM (India) (India cord)
C050900C910A	5 GHz Force 300-19R SM (ROW) (China cord)
C050900C911A	5 GHz Force 300-19R SM (ROW) (Brazil cord)
C050900C912A	5 GHz Force 300-19R SM (ROW) (Argentina cord)
C050900C913A	5 GHz Force 300-19R SM (ROW) (ANZ cord)
C050900C914A	5 GHz Force 300-19R SM (ROW) (South Africa cord)
C050900C915A	5 GHz Force 300-19R SM (ROW) (No PSU)
C058900C901A	5 GHz Force 300-19R SM (FCC) (US cord)

ePMP™ Force 300 Series

5 GHz Force 300-25 Ordering Information

C050910M001A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (no cord)
C050910M101A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (US cord)
C050910M104A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (IC) (Canada/US cord)
C050910M201A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (EU cord)
C050910M203A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (EU) (EU cord)
C050910M301A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (UK cord)
C050910M303A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (EU) (UK cord)
C050910M401A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (India cord)
C050910M501A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (China cord)
C050910M601A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (Brazil cord)
C050910M701A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (Argentina cord)
C050910M801A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (ANZ cord)
C050910M901A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (South Africa cord)
C050910MZ01A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (ROW) (No PSU)
C058910M102A	5 GHz Force 300-25 High Gain Radio 4-Pack packaging, priced per radio (FCC) (US cord)
C050910C001A	5 GHz Force 300-25 High Gain Radio (ROW) (no cord)
C050910C101A	5 GHz Force 300-25 High Gain Radio (ROW) (US cord)
C050910C104A	5 GHz Force 300-25 High Gain Radio (IC) (Canada/US cord)
C050910C201A	5 GHz Force 300-25 High Gain Radio (ROW) (EU cord)
C050910C203A	5 GHz Force 300-25 High Gain Radio (EU) (EU cord)
C050910C301A	5 GHz Force 300-25 High Gain Radio (ROW) (UK cord)
C050910C303A	5 GHz Force 300-25 High Gain Radio (EU) (UK cord)
C050910C401A	5 GHz Force 300-25 High Gain Radio (ROW) (India cord)
C050910C501A	5 GHz Force 300-25 High Gain Radio (ROW) (China cord)
C050910C601A	5 GHz Force 300-25 High Gain Radio (ROW) (Brazil cord)
C050910C701A	5 GHz Force 300-25 High Gain Radio (ROW) (Argentina cord)
C050910C801A	5 GHz Force 300-25 High Gain Radio (ROW) (ANZ cord)
C050910C901A	5 GHz Force 300-25 High Gain Radio (ROW) (South Africa cord)
C050910CZ01A	5 GHz Force 300-25 High Gain Radio (ROW) (No PSU)
C058910C102A	5 GHz Force 300-25 High Gain Radio (FCC) (US cord)

ePMP™ Force 300 Series

5 GHz Force 300 CSM Ordering Information

C050910C021A	5 GHz Force 300 CSM Radio (ROW) (no cord)
C050910C121A	5 GHz Force 300 CSM Radio (ROW) (US cord)
C050910C124A	5 GHz Force 300 CSM Radio (IC) (Canada/US cord)
C050910C221A	5 GHz Force 300 CSM Radio (ROW) (EU cord)
C050910C223A	5 GHz Force 300 CSM Radio (EU) (EU cord)
C050910C321A	5 GHz Force 300 CSM Radio (ROW) (UK cord)
C050910C323A	5 GHz Force 300 CSM Radio (EU) (UK cord)
C050910C421A	5 GHz Force 300 CSM Radio (ROW) (India cord)
C050910C422A	5 GHz Force 300 CSM Radio (India) (India Cord)
C050910C521A	5 GHz Force 300 CSM Radio (ROW) (China cord)
C050910C621A	5 GHz Force 300 CSM Radio (ROW) (Brazil cord)
C050910C721A	5 GHz Force 300 CSM Radio (ROW) (Argentina cord)
C050910C821A	5 GHz Force 300 CSM Radio (ROW) (ANZ cord)
C050910C921A	5 GHz Force 300 CSM Radio (ROW) (South Africa cord)
C050910CZ21A	5 GHz Force 300 CSM Radio (ROW) (No PSU)
C058910C122A	5 GHz Force 300 CSM Radio (FCC) (US cord)
C050900S005A	License Key Force 300 upgrade to AP – 12 SMs Maximum Note: Force 300 CSM can be converted to an Access Point by applying the above license key. A maximum of 12 SM's can be connected in this way. The Force 300 CSM does not support GPS Synchronization. Refer to ePMP 3000L or ePMP 3000 for full-featured Access Point.

ABOUT CAMBIUM NETWORKS

Cambium Networks empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.