e**PMP**[™] Force 300-16

Wireless service providers and enterprises around the globe are challenged to deliver reliable connectivity in overcrowded RF environment. As spectrum increasingly becomes a scarce commodity, finding the right broadband connectivity solution is vital for all low and high density types of deployments.

Cambium Networks resolves this challenge with a breakthrough technology solution that delivers superior performance, resiliency and reach in the most congested environments. Combining the latest 802.11AC Wave 2 chipset and the field proven TDD MAC of ePMP, the Force 300-16 offers a compelling yet affordable point to point product and a future mid gain subscriber module for the ePMP3000 Access Point.

Force 300-16 continues the tradition of previous products with a 16dbi integrated antenna with a narrow beamwidth and reliable mechanics. Supporting peak throughput greater than 500Mbps, the Force300-16 will also supports an always on spectrum analyzer and local WiFi management to take advantage of mobile installation applications.

FEATURES:

- Cambium Networks' ePMP Force 300-16 is designed to operate in high interference environments and provides superior throughput of over 500 Mbps of real user data.
- The ePMP Force 300-16 supports channel size configuration from 20MHz up to 80MHz and modulates up to 256 QAM.
- The Force 300-16 supports a local Wi-Fi connection to allow easy installation, configuration, and monitoring from any Wi-Fi enabled device.
- The ePMP Force 300-16 supports real time spectrum monitoring with out degradation in throughput
- Configurable modes of operation ensure robust adaptivity to both symmetrical and asymmetrical traffic while providing high performance and round-trip latency as low as 3-5 ms.
- QoS management offers an outstanding quality for triple play services – VoIP, video, and data – and provides three levels of traffic priority.
- With a horizontal orientation mount providing a 15 degree beamwidth and 16dBi gain, the F300-16 offers a compelling, compact ubscriber or point to point solution resilient to interference.
- This platform is for the user base that wants a smaller on premises footprint while enabling high gain.
- Install is a breeze with the easy to install mount, capable of pole and wall mounting.

SPECIFICATIONS

SPECTRUM	
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.)
Channel Width	20 40 80 MHz

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SPECIFICATIONS

Mc/Media Access Control LayerCarbinumProprieta2.2 MIMC/CEPUEthern Interfaced10/1000 DBSC Compatible with Carbinum PeC & Standard Pc pinotsProtocols Land10/4/PeC Gual Stack, UDR TCR (CMC SMM ACX, NTR STR (GMC SSANetwork Management10/4/PeC Gual Stack, UDR TCR (CMC SMM ACX, NTR STR (GMC SSAVAM8020 with 8020 pinotinyPEFER10/1000 BBSC (SEG DAM SA(r) = 66 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 66 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 50 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 50 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 50 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 50 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 50 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 50 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 50 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 50 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 50 dBm (per chain)Nominal Receive Seatibility (WFEC) (20 MHz Cum)IGS3 = 80 dBm to MCSS (256 DAM SA(r) = 50 dBm (per chain)Nominal Receive Seatibility (WFEC	INTERFACE	
Betnet 10/00/1000 Basel, Compatible with Cambium Pei & Standard Pei prootS Protocols Used PV4/PPe (Busl Stack), UDP, CP, CPP, SMPA/2C, NTP, STP, IGMP, SSH Network Management IPv4/PPe, HTTPS, SMPA/2C, SSH, Cambium Networks CoMeestro** VLAN 0820 with 8021p priority PERFORMANCE X80 ARD Vis Nominal Receive Sensitivity (WFEC) 4920 MHz Channe MCS0 = 499 albin to MCS9 (256 0AM-540) = 66 dBm (per chain) Nominal Receive Sensitivity (WFEC) 490 MHz Channe MCS0 = 499 albin to MCS9 (256 0AM-540) = 64 dBm (ber chain) Nominal Receive Sensitivity (WFEC) 490 MHz Channe MCS0 = 499 albin to MCS9 (256 0AM-540) = 64 dBm (per chain) Nominal Receive Sensitivity (WFEC) 490 MHz Channe MCS0 (256 0AM-540) = 64 dBm (per chain) Nominal Receive Sensitivity (WFEC) 490 MHz Channe MCS0 (256 0AM-540) = 64 dBm (per chain) Nominal Receive Sensitivity (WFEC) 490 MHz Channe MCS0 (256 0AM-540) = 64 dBm (per chain) Nominal Receive Sensitivity (WFEC) 490 MHz Channe MCS0 (256 0AM-540) = 64 dBm (per chain) Nominal Receive Sensitivity (WFEC) 490 MHz Channe MCS0 (256 0AM-540) = 64 dBm (per chain) Nominal Receive Sensitivity (WFEC) 490 MHz Channe MCS0 (256 0AM-540) Gaustant Lower Khange 1 Joule Integrated (2000000L055A) = 500 GBaB (per	MAC (Media Access Control) Layer	Cambium
Protools Used Prv4/IPv6 (Dual Stack), UDP, CTP, ICMP, SMPV2c, XTP, STP, IGMP, SMI Network Management IPv4/IPv6, HTTPS, SMPV2c, SSH, Cambium Networks Cnfuestro* VLAN 80210 with 80210 priority PERFERENCE Important Status ARQ Yes ARQ Netsonal Receive Sensitivity (wFEC) @20 MHz Chama Monial Receive Sensitivity (wFEC) @20 MHz Chama MCS0 = 69 dBm to MCS9 (256 0AM-5/6) = 64 dBm (per chain) Nomial Receive Sensitivity (wFEC) @20 MHz Chama MCS0 = 69 dBm to MCS9 (256 0AM-5/6) = 59 dBm (per chain) Moduation Levels (Adaptive) MCS0 @256 0AM-5/6) = 59 dBm (per chain) Moduation Levels (Adaptive) MCS0 @256 0AM-5/6) = 59 dBm (per chain) PMFSICAL Surge Stuppresson I Iowle Integrated (C0000000.065A - 50V Gligabit surge suppressor is recommended for optimum protection) Environmental PS5 Temperature -90°C to +60°C (-22°F to +40°F) Wind Survival B0 km/hour (12 m/hour) Dimensions (Dia k Daph) 12 - 451 x119 cm (d4 ans; us to 225 in (57 cm) with larger damp Net Consumption 12 - 451 x119 cm (d4 ans; us to 225 in (57 cm) with larger damp Net Consumption 12 - 451 x119 cm (d4 ans; us to 225 in (57 cm) with larger damp Net Consumption<	Proprietary Physical Layer	2x2 MIMO/OFDM
Network ManagementPerk/IPNE, SMRPv2c. SSI, Canbium Networks CnRestro®VLAN820.0 with 862.1p priorityPEFFORMANCEVisAR0NoisNominal Receive Sensitivity (WFEC) 620.0 MHz Chans)KSS0 = 63.4 Bins to KSS0 (256.0 AM-5/6) = 64.4 Bins (per chain)Nominal Receive Sensitivity (WFEC) 620.0 MHz Chans)KSS0 = 63.4 Bins to KSS0 (256.0 AM-5/6) = 64.4 Bins (per chain)Nominal Receive Sensitivity (WFEC) 620.0 MHz Chans)KSS0 = 63.4 Bins to KSS0 (256.0 AM-5/6) = 64.4 Bins (per chain)Nominal Receive Sensitivity (WFEC) 620.0 MHz Chans)KSS0 = 63.4 Bins to KSS0 (256.0 AM-5/6) = 64.4 Bins (per chain)Nominal Receive Sensitivity (WFEC) 620.0 MEX CSS (256.0 AM-5/6) = 64.4 Bins (per chain)KSS0Nominal Receive Sensitivity (WFEC) 620.0 MEX CSS (256.0 AM-5/6) = 64.4 Bins (per chain)KSS0Nominal Receive Sensitivity (WFEC) 620.0 MEX CSS (256.0 AM-5/6) = 64.4 Bins (per chain)KSS0Nominal Receive Sensitivity (WFEC) 620.0 MEX CSS (256.0 AM-5/6) = 64.4 Bins (per chain)KSS0Nominal Receive Sensitivity (WFEC) 620.0 MEX CSS (256.0 AM-5/6) = 64.4 Bins (per chain)KSS0Nominal Receive Sensitivity (WFEC) 620.0 MEX CSS (256.0 AM-5/6) = 64.4 Bins (per chain)KSS0Nominal Receive Sensitivity (WFEC) 620.0 MEX CSS (256.0 AM-5/6) = 64.4 Bins (per chain)KSS0Nominal Receive Sensitivity (WFEC) 620.0 MEX CSS (256.0 AM-5/6) = 64.4 Bins (per chain)KSS0Nominal Receive Sensitivity (WFEC) 620.0 MEX CSS (256.0 AM-5/6) = 64.4 Bins (per chain)KSS0Nominal Receive Sensitivity (WFEC) 620.0 MEX CSS (256.0 AM-5/6) = 64.4 Bins (per chain)KSS0Nominal CSS (256.0 AM-5/6) MEX CSS (256.0 AM-5/6) = 64.4 B	Ethernet Interfaced	10/100/1000 BaseT, Compatible with Cambium PoE & Standard PoE pinouts
VANB02.0 wth802.pnorthyPERFORMANCEARQVisNominal Review Sensitivity (WFCD (320 MHz Column)MCSD - 87 dBm to MCSD (256 GAM-5/6) - 64 dBm (per chain)Nominal Review Sensitivity (WFCD (320 MHz Chain)MCSD - 87 dBm to MCSD (256 GAM-5/6) - 64 dBm (per chain)Nominal Review Sensitivity (WFCD (320 MHz Chain)MCSD - 87 dBm to MCSD (256 GAM-5/6) - 64 dBm (per chain)Nominal Review Sensitivity (WFCD (320 MHz Chain)MCSD - 87 dBm to MCSD (256 GAM-5/6) - 64 dBm (per chain)Nominal Review Sensitivity (WFCD (320 MHz Chain)MCSD (256 GAM-5/6)Tarsmt Power Range0 to-29 dBm (contined, to regional ERP limit) (1 dB interval)PHYSICALSinger GCD00000.065A - 30V Gigabit surge suppressor is recommended for optimum protection)Environmental0 Singer GCD00000.065A - 30V Gigabit surge suppressor is recommended for optimum protection)Weight0 Singer GCD00000.065A - 30V Gigabit surge suppressor is recommended for optimum protection)Weight0 Singer GCD00000.065A - 30V Gigabit surge suppressor is recommended for optimum protection)Weight0 Singer GCD00000.065A - 30V Gigabit surge suppressor is recommended for optimum protection)Weight0 Singer GCD00000.065A - 30V Gigabit surge suppressor is recommended for optimum protection)Weight0 Singer GCD00000.065A - 30V Gigabit surge suppressor is recommended for optimum protection)Weight0 Singer GCD00000.065A - 30V Gigabit surge suppressor is recommended for optimum protection)Weight0 Singer GCD000000.065A - 30V Gigabit surge suppressor is recommended for optimum protection)Description2 Singer GCD00000000000000000000000000000	Protocols Used	IPv4/IPv6 (Dual Stack), UDP, TCP, ICMP, SNMPv2c, NTP, STP, IGMP, SSH
PERFORMANCE ARQ Yes Nominal Receive Sensitivity (w/FEC) (#20 MHz Channel MCS0 = -89 dBm to MCS8 (256 0AM-5/6) = -64 dBm (per chain) Nominal Receive Sensitivity (w/FEC) (#20 MHz Channel MCS0 = -87 dBm to MCS9 (256 0AM-5/6) = -94 dBm (per chain) Nominal Receive Sensitivity (w/FEC) (#20 MHz Channel MCS0 = -87 dBm to MCS9 (256 0AM-5/6) = -94 dBm (per chain) Modulation Levels (Adaptive) MCS0 (#2950 to MCS9 (256 0AM-5/6) = -94 dBm (per chain) Modulation Levels (Adaptive) MCS0 (#2950 to MCS9 (256 0AM-5/6) = -94 dBm (per chain) Modulation Levels (Adaptive) MCS0 (#2950 to MCS9 (256 0AM-5/6) = -94 dBm (per chain) Modulation Levels (Adaptive) MCS0 (#2950 to MCS9 (256 0AM-5/6) = -94 dBm (per chain) Modulation Levels (Adaptive) MCS0 (#2950 to MCS9 (256 0AM-5/6) = -94 dBm (per chain) Modulation Levels (Adaptive) MCS0 (#2950 to MCS9 (256 0AM-5/6) = -94 dBm (per chain) Modulation Levels (Adaptive) MCS0 (#2000000.065A - 30V Gigabi surge suppressor is recommended for optimum protection) Enversion 1.0ule Integrated (C000000.065A - 30V Gigabit surge suppressor is recommended for optimum protection) Enversions 1.0ule Integrated (C000000.065A - 30V Gigabit surge suppressor is recommended for optimum protection) Enversions 1.0ule forto = -00° (4 0 + 9.9 × 4.7 in) - with mounting bra	Network Management	IPv4/IPv6, HTTPs, SNMPv2c, SSH, Cambium Networks CnMaestro™
ARQVsNominal Receive Sensitivity (w/FEC) 630 MHz ChaunelMCSO = -89 dBm to MCS8 (256 0AM-5/6) = -64 dBm (per chain)Nominal Receive Sensitivity (w/FEC) 640 MHz ChaunelMCSO = -87 dBm to MCS9 (256 0AM-5/6) = -59 dBm (per chain)Moduaton Levels (Adaptive)MCSO (BFSS) to MCS9 (256 0AM-5/6) = -59 dBm (per chain)Moduaton Levels (Adaptive)MCSO (BFSS) to MCS9 (256 0AM-5/6) = -59 dBm (per chain)PHYSICAL20 dBm (combined, toregional ERP limit) (1dB interval)Store SuppressionJoule Integrated (C000000L065A - 30V Gigabit surge suppressor is recommended for optimum protection)EnvironmentalPS5Temperature-30°C to efo°C (-22°F to ±140°F)Wind SurvivalStok (11b) (includes mounting bracket)Mora Survival10.4 brack mounting bracket)Nore Song DBay Char (12 m/Hour)10.4 to 152 - 4.1 cm) with included damp; up to 225 in (5.1 cm) with larger dampNew Consumption1.2 sto 13 cm (4.9 x 9.9 x 4.7 in) - with mounting bracket attachedPole Song DBay Char (12 m/Hour)10.4 to 152 - 4.1 cm) with included damp; up to 225 in (5.1 cm) with larger dampNew Consumption1.9 sto 14.5 (CCMP mode)ECUENTYECUENTYFCIO204 bit AES (CCMP mode)CERTIFICATIONSESCENTIONCERTIFICATIONSESCENTIONCERTIFICATIONSESCENTIONCERTIFICATIONSESCENTIONCEGSIDGITAA0.4 PIP SOIR's Gau SO 202 V2.11 (S.8 GHz)**CERTIFICATIONSESCENTIONCERTIFICATIONSESCENTIONCERTIFICATIONSESCENTIONCERTIFICATIONSESCENTION <td>VLAN</td> <td>802.1Q with 802.1p priority</td>	VLAN	802.1Q with 802.1p priority
Nominal Receive Sensitivity (w/FEC) @20 MHz Chanel MCSD = -89 dBm to MCSB (256 GAM-3/4) = -66 dBm (per chain) Nominal Receive Sensitivity (w/FEC) @40 MHz Chanel MCSD = -87 dBm to MCSB (256 GAM-5/6) = -59 dBm (per chain) Nominal Receive Sensitivity (w/FEC) @40 MHz Chanel MCSD (256 GAM-5/6) = -59 dBm (per chain) Modulation Levels (Adaptive) MCSD (BPSK) to MCSB (256 GAM-5/6) Taramit Power Range D to -29 dBm (combined, to regional EIRP limit) (1 dB Interval) PHYSICAL Surge Suppression 1 Joule Integrated (C0000000055A - 30V Gigabit surge suppressor is recommended for optimum protection) Environmental IP55	PERFORMANCE	
Naminal Receive Sensitivity (w/FEC) (ai40 MHz Channel MCS0 = -87 dBm to MCS9 (256 0AM-5/6) = -64 dBm (per chain) Naminal Receive Sensitivity (w/FEC) (ai40 MHz Channel MCS0 = -84 dBm to MCS9 (256 0AM-5/6) Transmit Power Range 0 to -29 dBm (combined, to regional EIRP limit) (1 dB interval) PHYSICAL Surge Suppression 1 Joule Integrated (C000000.065A - 30V Gigabit surge suppressor is recommended for optimum protection) Environmental IPS5 Iemperature -30°C to +60°C (-22°F to +140°F) Weight 0.50 kg (1) lb (includes mounting bracket) Wind Survial 108 km/hour (12 m/hour) Dimensions (los A Depth) 1.24 x25.1 x1 9 cm (4 9 x 9 9 x 47 in) – with mounting bracket attached Power Consumption 1.24 x25.1 x1 9 cm (4 9 x 9 9 x 47 in) – with mounting bracket attached Power Consumption 1.24 wass.1 x1 9 cm (4 9 x 9 9 x 47 in) – with mounting bracket attached Power Consumption 1.24 wass.1 x1 9 cm (4 9 x 9 9 x 47 in) – with mounting bracket attached Power Consumption 1.24 wass.1 x1 9 cm (4 9 x 9 9 x 47 in) – with mounting bracket attached Power Consumption 1.24 wass.1 x1 9 cm (4 9 x 9 9 x 47 in) – with mounting bracket attached Power Consumption 1.24 wass.1 x1 9 cm (4 9 x 9 x 47 in) – with mounting bracket attached P	ARQ	Yes
Naminal Receive Sensitivity (VKFEC) @00 MHz Chamial MCS0 = -84 dBm to MCS9 (256 GAM-5/6) = -59 dBm (per chain) Modulation Levels (Adaptive) MCS0(BFSK) to MCS9 (256 GAM-5/6) Tarsmit Power Range 0 to +29 dBm (combined, to regional EIRP limit) (1 dB interval) PHYSICAL Surge Suppression 1 Joule Integrated (C000000L06SA - 30V Gigabit surge suppressor is recommended for optimum protection) Environmental IPS5 Temperature -30°C to +60°C (-22°E to +140°F) Weight 0.50 kg (11b) (includes mounting bracket) Wind Survival 108 km/hour (12 mi/hour) Dimensions (Dia X Depth) 12.4 x Z5.1 x11.9 cm (4.9 x 9.9 x 4.7 in) - with mounting bracket attached Pole Diameter Range 1 - 1.6 in (2.5 - 4.1 cm) with included damp; up to 2.25 in (5.7 cm) with larger clamp Power Consumption 128-bit AES (CCMP mode) SECURTY E FCCD 28-bit AES (CCMP mode) CERTIFICATIONS E FCCD 28-bit AES (CCMP mode) CESTIFICATIONS E FCCD 28-bit AES (CCMP mode) CESTIFICATIONS E FCCD 28-bit AES (CCMP mode) COSS910C12A PMP 5 6	Nominal Receive Sensitivity (w/FEC) @20 MHz Channel	MCS0 = -89 dBm to MCS8 (256 QAM-3/4) = -66 dBm (per chain)
Modulation Levels (Adaptive) MCS0(BPSK) to MCS9 (256 GAM-5/6) Transmit Power Range 0 to +29 dBm (combined, to regional EIRP limit) (1 dB interval) PHYSICAL Surge Suppression 1 Joule Integrated (C000000L065A - 30V Gigabit surge suppressor is recommended for optimum protection) Environmental IPS5 Temperature -30°C to +60°C (-22°F to +140°F) Weight 0.50 kg (11 lb) (includes mounting bracket) Wind Survival 180 km/hour (12 m/hour) Dimensions (Dia X Depth) 1.24 x 25.1 x 19.9 cm (4.9 x 9.9 x 4.7 in) – with mounting bracket attached Pole Diameter Range 1.16 in (2.5 - 4.1 cm) with included damp; up to 2.25 in (S.7 cm) with larger clamp Power Consumption 12 Watts Input Voltage 30 volts SECURITY Encryption Encryption 28-bit AES (CMP mode) CERTIFICATIONS E FCID 28H-89FT0016** Industry Canada Cert 109W-0016** CES ESCIPTION COS ESCIPTION COS Self Force 300-16 Radio (FCC) (US cord) COS900CI1AA ePMP 5 GHz Force 300-16 Radio (EU) (Canada/US cord) CO	Nominal Receive Sensitivity (w/FEC) @40 MHz Channel	MCS0 = -87 dBm to MCS9 (256 QAM-5/6) = -64 dBm (per chain)
Transmit Power Range Ot 0+ 29 dBm (combined, to regional EIRP limit) (1 dB interval) PHYSICAL Surge Suppression 1 Joule Integrated (C000000L055A - 30V Gigabit surge suppressor is recommended for optimum protection) Environmental IP55 Temperature -30°C to +60°C (-22°E to +140°F) Weight 0.50 kg (11 lb) (includes mounting bracket) Wind Survival 180 km/hour (12 mi/hour) Dimensions (Dia x Depth) 12.4 x 251 x 119 cm (4.9 x 9.9 x 4.7 in) - with mounting bracket attached Pole Diameter Range 1-1.6 in (2.5 - 41 cm) with included damp; up to 2.25 in (57 cm) with larger clamp Power Consumption 12 Watts Input Voltage 30 Volts SECURITY Encryption FCCID 28H-89F10016** FCCID 28H-89F10016** Industry Canada Cert 109W-0016** CEX N308 39 X2.11 (s.4 GHz), EN 302 502 V2.11 (s.8 GHz)*** PART NUMBER DESCRIPTION C059910C12A ePMP 5 GHz Force 300-16 Radio (CC) (US cord) C059910C13A ePMP 5 GHz Force 300-16 Radio (CL) (canada/US cord) C059910C13A ePMP 5 GHz Force 300-16 Radio (CL) (UL cord) C05	Nominal Receive Sensitivity (w/FEC) @80 MHz Channel	MCS0 = -84 dBm to MCS9 (256 QAM-5/6) = -59 dBm (per chain)
PHYSICAL Surge Suppression 1 Joule Integrated (C000000L065A - 30V Gigabit surge suppressor is recommended for optimum protection) Environmental IP55 Temperature -30°C to +60°C (-22°E to +140°F) Weight 0 50 kg (11 lb) (includes mounting bracket) Wind Survival 180 km/hour (112 m/hour) Dimensions (Dia X Depth) 12.4 x 25.1 x 11.9 cm (4.9 x 9.9 x 4.7 in) - with mounting bracket attached 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 Power Consumption 12 Watts Input Voltage 30 Volts SECURITY Encryption Encryption 128-bit AES (CCMP mode) CERTIFICATIONS Z8H-89FT0016** FCCID Z8H-89FT0016** Industry Canada Cert 109W-0016** C058910C112A PESCRIPTION C058910C112A PENCR 300-16 Radio (FCC) (US cord) C05910C112A PPMP 5 GHz Force 300-16 Radio (FCC) (US cord) C059010C135A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	Modulation Levels (Adaptive)	MCS0(BPSK) to MCS9 (256 QAM-5/6)
Surge Suppression Loule Integrated (C000000065A 30V Gigabit surge suppressor is recommended for optimum protection) Environmental IPS5 Temperature -30°C to +60°C (-22°F to +140°F) Weight 0.50 kg (1.1 b) (includes mounting bracket) Wind survival IB0 km/hour (112 mi/hour) Dimensions (Dia x Depth) 12.4 x 25.1 x 11.9 cm (4.9 x 9.9 x 4.7 in) - with mounting bracket attached Pole Diameter Range 1 -1.6 in (2.5 - 4.1 cm) with included damp; up to 2.25 in (5.7 cm) with larger clamp Power Consumption 12 Watts Input Voltage 30 Volts SECURITY Iza-bit AES (CCMP mode) FCCID ZBH-89FT0016** Industry Canada Cert 190W-0016** Industry Canada Cert DIS04 S02 V2.11 (5.4 GH2). EN 302 502 V2.11 (5.8 GH2)** FCCID ISA CERTIFICA C6S910C112A PMP 5 GH2 Force 300-16 Radio (FCC) (US cord) C05910C12A PMP 5 GH2 Force 300-16 Radio (EC) (US cord) C059010C13A ePMP 5 GH2 Force 300-16 Radio (EU) (UK cord)	Transmit Power Range	0 to +29 dBm (combined, to regional EIRP limit) (1 dB interval)
Environmental IP55 Temperature -30°C to +60°C (-22°F to +140°F) Weight 0.50 kg (11 lb) (includes mounting bracket) Wind survival 180 km/hour (12 mi/hour) Dimensions (Dia x Depth) 1.24 x 25.1 x 11.9 cm (4.9 x 9.9 x 4.7 in) - with mounting bracket attached 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 Power Consumption 12 Watts Input Voltage 30 Volts SECURITY Itale SC (CCMP mode) CERTIFICATIONS Z8H-89FT0016** FCCID Z8H-89FT0016** Industry Canada Cert 109W-0016** CGS910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C059910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C059910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C059910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C059910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C059910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C059910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C059910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) </td <td>PHYSICAL</td> <td></td>	PHYSICAL	
Temperature-30°C to +60°C (-22°F to +140°F)Weight0.50 kg (11 lb) (includes mounting bracket)Wind Survival180 km/hour (12 mi/hour)Dimensions (Dia x Depth)12.4 x 25.1 x 11.9 cm (4.9 x 9.9 x 4.7 in) - with mounting bracket attachedPole Diameter Range1 -1.6 in (2.5 - 4.1 cm) with included clamp; up to 2.25 in (5.7 cm) with larger clampPower Consumption12 WattsInput Voltage30 VoltsSECURITYEncryption128-bit AES (CCMP mode)CERTIFICATIONSFCID28H-89FT0016**Industry Canada Cert109W-0016**CugN301893 V2.11 (5.4 GHz), EN 302 502 V2.11 (5.8 GHz)**PART NUMBERDESCRIPTIONC05910C112AePMP 5 GHz Force 300-16 Radio (FCC) (US cord)C059010C13AePMP 5 GHz Force 300-16 Radio (EU) (EU cord)C059010C33AePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	Surge Suppression	1 Joule Integrated (C000000L065A - 30V Gigabit surge suppressor is recommended for optimum protection)
Weight0.50 kg (1.1 lb) (includes mounting bracket)Wind Survival180 km/hour (12 mi/hour)Dimensions (Dia x Depth)12.4 x 25.1 x 11.9 cm (4.9 x 9.9 x 4.7 in) - with mounting bracket attachedPole Diameter Range1 - 1.6 in (2.5 - 4.1 cm) with included clamp; up to 2.25 in (5.7 cm) with larger clampPower Consumption12 WattsInput Voltage30 VoltsSECURITYEncryptionEncryption128-bit AES (CCMP mode)CERTIFICATIONSFCCIDZ8H-89FT0016**Industry Canada Cert109W-0016**CEN 301 833 V21.1 (5.4 GHz), EN 302 502 V21.1 (5.8 GHz)**PART NUMBERDESCRIPTIONC058910C112AePMP 5 GHz Force 300-16 Radio (FCC) (US cord)C059010C13AePMP 5 GHz Force 300-16 Radio (FCC) (US cord)C059010C313AePMP S GHz Force 300-16 Radio (EU) (UK cord)	Environmental	IP55
Wind Survival 180 km/hour (112 mi/hour) Dimensions (Dia x Depth) 12.4 x 25.1 x 11.9 cm (4.9 x 9.9 x 4.7 in) - with mounting bracket attached 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 Power Consumption 12 Watts Input Voltage 30 Volts SECURITY Encryption Encryption 128-bit AES (CCMP mode) CERTIFICATIONS 78H-89FT0016** FCCID 28H-89FT0016** Industry Canada Cert 109W-0016** CERTIFICATIONS EN 301 893 V2.11 (5.4 GHz), EN 302 502 V2.11 (5.8 GHz)** PART NUMBER DESCRIPTION C058910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C050910C114A ePMP 5 GHz Force 300-16 Radio (EU) (EU cord) C050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (EU cord)	Temperature	-30°C to +60°C (-22°F to +140°F)
Dimensions (Dia x Depth)12.4 x 25.1 x 11.9 cm (4.9 x 9.9 x 4.7 in) - with mounting bracket attachedPole Diameter Range1 - 1.6 in (2.5 - 4.1 cm) with included clamp; up to 2.25 in (5.7 cm) with larger clampPower Consumption12 WattsInput Voltage30 VoltsSECURITYSECURITYEncryption128-bit AES (CCMP mode)CERTIFICATIONS28H-89FT0016**FCCID28H-89FT0016**Industry Canada Cert109W-0016**Industry Canada Cert109W-0016**CERTIFICATIONSDESCRIPTIONCS69910C112AePMP 5 GHz Force 300-16 Radio (FCC) (US cord)C050910C114AePMP 5 GHz Force 300-16 Radio (LU) (EU cord)C050910C313AePMP 5 GHz Force 300-16 Radio (LU) (UK cord)	Weight	0.50 kg (1.1 lb) (includes mounting bracket)
Pole Diameter Range1 - 1.6 in (2.5 - 4.1 cm) with included clamp; up to 2.25 in (5.7 cm) with larger clampPower Consumption12 WattsInput Voltage30 VoltsSECURITYSECURITYEncryption128-bit AES (CCMP mode)CERTIFICATIONSZBH-89FT0016**FCCIDZBH-89FT0016**Industry Canada Cert109W-0016**CERTINUMBERDESCRIPTIONC6EEN 301 893 V2.11 (5.4 GHz), EN 302 502 V2.11 (5.8 GHz)**C050910C112AePMP 5 GHz Force 300-16 Radio (FCC) (US cord)C050910C113AePMP 5 GHz Force 300-16 Radio (EU) (EU cord)C050910C313AePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	Wind Survival	180 km/hour (112 mi/hour)
Power Consumption12 WattsInput Voltage30 VoltsSECURITYEncryption128-bit AES (CCMP mode)CERTIFICATIONSFCCID28H-89FT0016**Industry Canada Cert109W-0016**CE109W-0016**CEEN 301 893 V2.11 (5.4 GHz), EN 302 502 V2.11 (5.8 GHz)**CGDESCRIPTIONCOS9910C112AePMP 5 GHz Force 300-16 Radio (FCC) (US cord)C050910C213AePMP 5 GHz Force 300-16 Radio (EU) (EU cord)C050910C313AePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	Dimensions (Dia x Depth)	12.4 x 25.1 x 11.9 cm (4.9 x 9.9 x 4.7 in) – with mounting bracket attached
Input Voltage 30 Volts SECURITY Encryption 128-bit AES (CCMP mode) CERTIFICATIONS Encryption 28H-89FT0016** FCCID ZBH-89FT0016** Industry Canada Cert 109W-0016** CE EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)** DESCRIPTION C058910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) ePMP 5 GHz Force 300-16 Radio (EU) (EU cord) C050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (EU cord) ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	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
SECURITY Encryption 128-bit AES (CCMP mode) CERTIFICATIONS FCCID 28H-89FT0016** Industry Canada Cert 109W-0016** CE EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)** PART NUMBER DESCRIPTION C058910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) c050910C114A ePMP 5 GHz Force 300-16 Radio (LU) (EU cord) c050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord) c050910C313A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	Power Consumption	12 Watts
Encryption 128-bit AES (CCMP mode) CERTIFICATIONS FCCID 28H-89FT0016** Industry Canada Cert 109W-0016** CE EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)** PART NUMBER DESCRIPTION C050910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C050910C114A ePMP 5 GHz Force 300-16 Radio (LU) (EU cord) C050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	Input Voltage	30 Volts
CERTIFICATIONS FCCID Z8H-89FT0016** Industry Canada Cert 109W-0016** CE EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)** PART NUMBER DESCRIPTION C058910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C050910C114A ePMP 5 GHz Force 300-16 Radio (IC) (Canada/US cord) C050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (EU cord) C050910C313A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	SECURITY	
FCCID Z8H-89FT0016** Industry Canada Cert 109W-0016** CE EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)** PART NUMBER DESCRIPTION C058910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C050910C114A ePMP 5 GHz Force 300-16 Radio (IC) (Canada/US cord) C050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (EU cord) C050910C313A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	Encryption	128-bit AES (CCMP mode)
Industry Canada Cert 109W-0016** CE EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)** PART NUMBER DESCRIPTION C058910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C050910C114A ePMP 5 GHz Force 300-16 Radio (IC) (Canada/US cord) C050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (EU cord) C050910C313A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	CERTIFICATIONS	
CE EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)** PART NUMBER DESCRIPTION C058910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C050910C114A ePMP 5 GHz Force 300-16 Radio (IC) (Canada/US cord) C050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (EU cord) C050910C313A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	FCCID	Z8H-89FT0016**
PART NUMBERDESCRIPTIONC058910C112AePMP 5 GHz Force 300-16 Radio (FCC) (US cord)C050910C114AePMP 5 GHz Force 300-16 Radio (IC) (Canada/US cord)C050910C213AePMP 5 GHz Force 300-16 Radio (EU) (EU cord)C050910C313AePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	Industry Canada Cert	109W-0016**
C058910C112A ePMP 5 GHz Force 300-16 Radio (FCC) (US cord) C050910C114A ePMP 5 GHz Force 300-16 Radio (IC) (Canada/US cord) C050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (EU cord) C050910C313A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	CE	EN 301 893 V2.1.1 (5.4 GHz), EN 302 502 V2.1.1 (5.8 GHz)**
C050910C114A ePMP 5 GHz Force 300-16 Radio (IC) (Canada/US cord) C050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (EU cord) C050910C313A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	PART NUMBER	DESCRIPTION
C050910C213A ePMP 5 GHz Force 300-16 Radio (EU) (EU cord) C050910C313A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	C058910C112A	ePMP 5 GHz Force 300-16 Radio (FCC) (US cord)
C050910C313A ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)	C050910C114A	ePMP 5 GHz Force 300-16 Radio (IC) (Canada/US cord)
	C050910C213A	ePMP 5 GHz Force 300-16 Radio (EU) (EU cord)
	C050910C313A	ePMP 5 GHz Force 300-16 Radio (EU) (UK cord)
c050910C011A ePMP 5 GHz Force 300-16 Radio (ROW) (no cord)	C050910C011A	ePMP 5 GHz Force 300-16 Radio (ROW) (no cord)
C050910C111A ePMP 5 GHz Force 300-16 Radio (ROW) (US cord)	C050910C111A	ePMP 5 GHz Force 300-16 Radio (ROW) (US cord)
C050910C211A ePMP 5 GHz Force 300-16 Radio (ROW) (EU cord)	C050910C211A	ePMP 5 GHz Force 300-16 Radio (ROW) (EU cord)
C050910C311A ePMP 5 GHz Force 300-16 Radio (ROW) (UK cord)	C050910C311A	ePMP 5 GHz Force 300-16 Radio (ROW) (UK cord)
C050910C411A ePMP 5 GHz Force 300-16 Radio (ROW) (India cord)	C050910C411A	ePMP 5 GHz Force 300-16 Radio (ROW) (India cord)
C050910C412A ePMP 5 GHz Force 300-16 Radio (India) (India cord)	C050910C412A	ePMP 5 GHz Force 300-16 Radio (India) (India cord)
C050910C511A ePMP 5 GHz Force 300-16 Radio (ROW) (China cord)	C050910C511A	ePMP 5 GHz Force 300-16 Radio (ROW) (China cord)

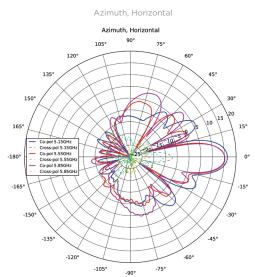
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SPECIFICATIONS

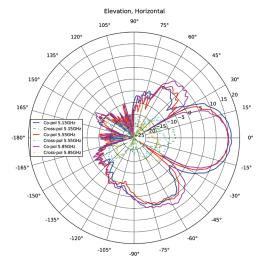
DESCRIPTION
ePMP 5 GHz Force 300-16 Radio (ROW) (Brazil cord)
ePMP 5 GHz Force 300-16 Radio (ROW) (Argentina cord)
ePMP 5 GHz Force 300-16 Radio (ROW) (ANZ cord)
ePMP 5 GHz Force 300-16 Radio (ROW) (South Africa cord)
ePMP 5 GHz Force 300-16 Radio (ROW) (No PSU)
5 GHZ SPECIFICATION
4.9 – 5.970 MHz
Panel
16 dBi
15 degrees
30 degrees

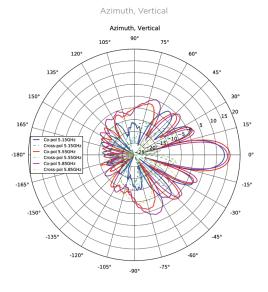
**Certifications are a place holder until official grant is given

ANTENNA PATTERNS

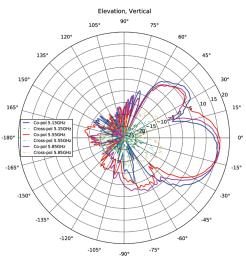


Elevation, Horizontal





Elevation, Vertical



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