



PMP 450b Subscriber Module

Cambium Networks PMP 450 platform increases performance with the addition of the PMP 450b Subscriber Module.



KEY FEATURES:

- **Ultra-wide band** radios support the entire band, from 4.9 to 5.925 GHz.
- **Gigabit Ethernet Interface** provides the maximum transfer rates to the device.
- **3.5 mm audio jack** allows direct connection of headphones without any adapters.
- New System on a Chip (SoC) enhances **Packet Processing Power** more than 4x that of the 450 SM.
- Capable of up to **300 Mbps** aggregate in a 40 MHz channel.

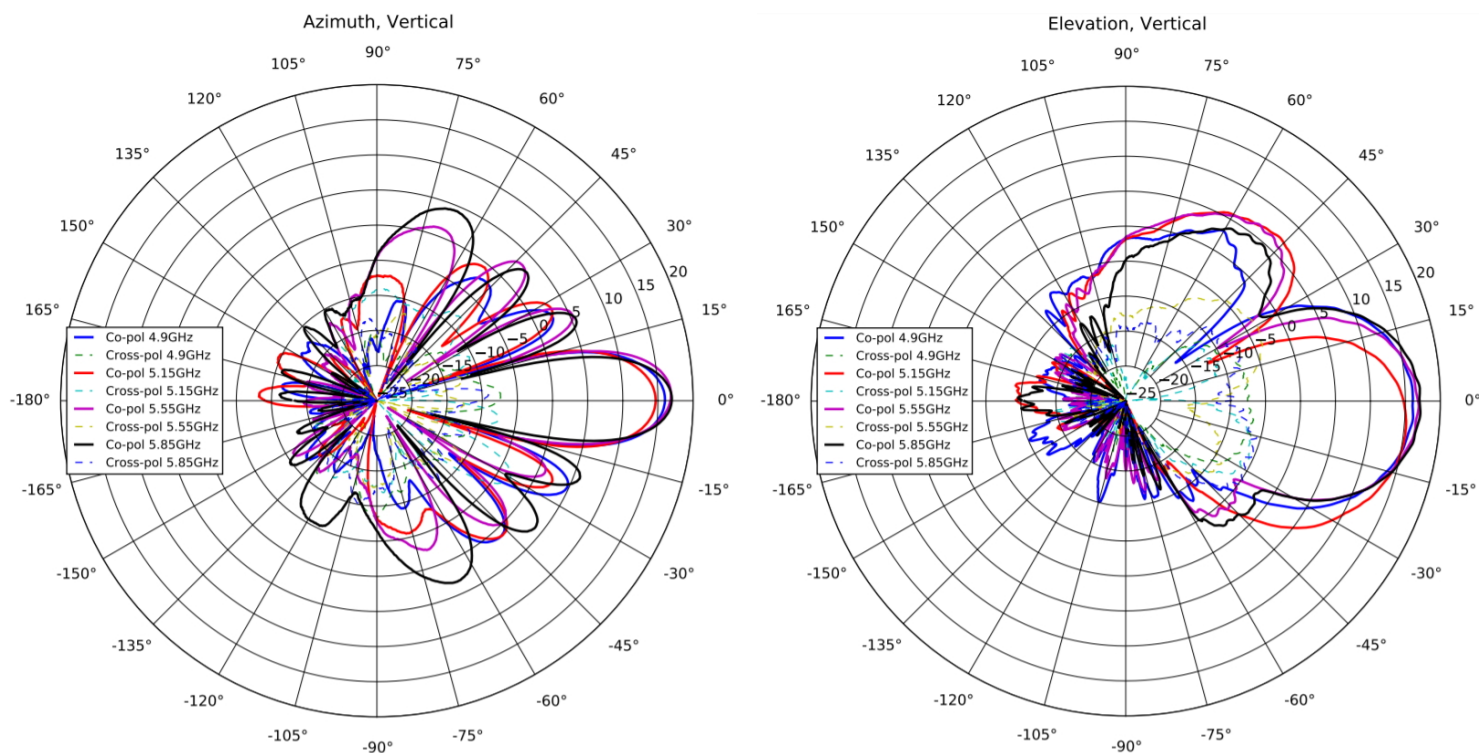
SPECIFICATIONS

PRODUCT	MID-GAIN (17 dBi)	HIGH GAIN (24 dBi)
Model Numbers	C050045C011A	C050045H012A (4-pack)
SPECTRUM		
Channel Spacing	Configurable on 2.5 MHz increments	
Frequency Range	4900 - 5925 MHz	
Channel Width	5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, or 40 MHz	
INTERFACE		
MAC (Media Access Control) Layer	Cambium Networks proprietary	
Physical Layer	2x2 MIMO OFDM	
Ethernet Interface	100/1000BaseT, full duplex, rate auto negotiated, 802.3 compliant	
Protocols Used	IPv4, UDP, TCP, IP, ICMP, Telnet, SNMP, HTTP, FTP	
Network Management	HTTP, HTTPS, Telnet, FTP, SNMP v2 and v3	
MTU	1700 bytes	
VLAN	802.1ad (DVLAN Q-inQ), 802.1Q with 802.1p priority, dynamic port VID	
SECURITY		
Encryption	56-bit DES, FIPS-197 128-bit AES	

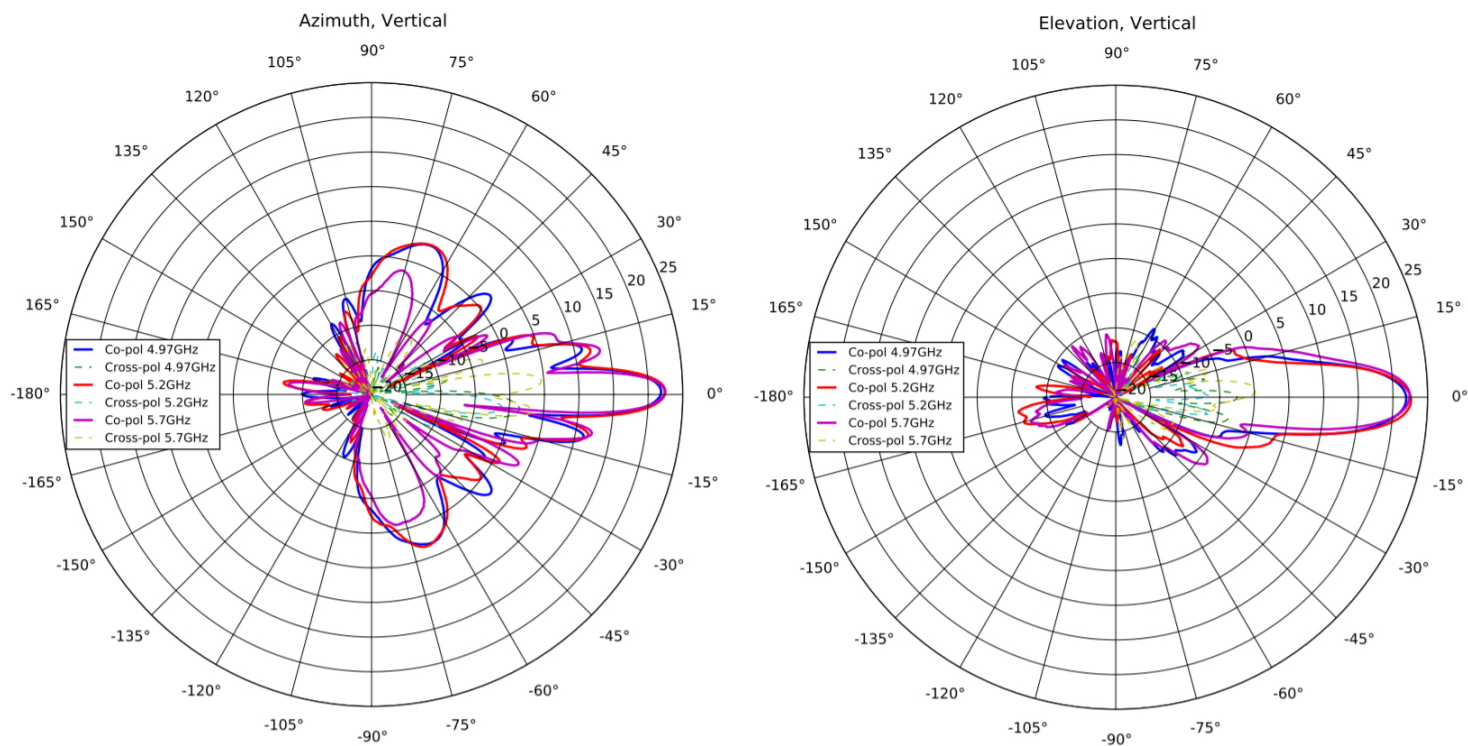
SPECIFICATIONS

PRODUCT	MID-GAIN (17 dBi)	HIGH GAIN (24 dBi)
Model Numbers	C050045C011A	C050045H012A (4-pack)
PERFORMANCE		
PPS	50,000	
ARQ	Yes	
Modulation Levels (Adaptive)	MCS	Signal to Noise Required (SNR, in dB)
2X	QPSK	10
4X	16-QAM	17
6X	64-QAM	24
8X	256-QAM	32
Ultimate Sensitivity	-94 dBm	
Maximum Deployment Range	Up to 40 miles (64 km)	
Latency	3 - 5 ms, typical	
GPS Synchronization	Yes, synchronized by Access Point	
Quality of Service	Diffserve QoS	
LINK BUDGET		
Transmit Power Range	22 dB dynamic range (to EIRP limit by region) (1 dB step)	
Maximum Transmit Power	+27 dBm combined output (+22 dBm @ 256QAM)	
ANTENNA	MID-GAIN (17 dBi)	HIGH GAIN (24 dBi)
Integrated Antenna Peak Gain	17 dBi	24 dBi
3 dB Beamwidth - Azimuth	15°	7°
3 dB Beamwidth - Elevation	30°	7°
Polarization	Dual linear, H + V	Dual linear, H + V
Front-To-Back Isolation	>20 dB	>25 dB
Cross Polarization	15 dB	15 dB
PHYSICAL		
Antenna Accessories	N/A	Optional Radome: N000900L021A
Surge Suppression	EN 61000-4-5: 10x700us, 4Kv EN 61000-4-2: ESD 30kV contact / 30kV air	EN 61000-4-5: 10x700us, 4Kv EN 61000-4-2: ESD 30kV contact / 30kV air
Mean Time Between Failure	> 40 Years	> 40 Years
Environmental	IP 55	IP 67
Temperature / Humidity	-40°C to +60°C (-40°F to +140°F), 0-95% non-condensing	-40°C to +60°C (-40°F to +140°F), 0-95% non-condensing
Weight	0.6 kg (1.4 lb.) (includes mounting bracket)	3.1 kg (7 lb.) (includes mounting bracket)
Wind Survival	190 km/hour (118 mi/hour)	145 km/hour (90 mi/hour)
Dimensions (HxWxD) (including mount)	12.5 x 24.8 x 12 cm (4.9" x 9.8" x 4.7")	47 cm diameter x 28 cm (18.5" diameter x 11.2")
Pole Diameter Range (w/ included mount)	2.5 to 4.1 cm (1" to 1.6") with included clamp Up to 5.7 cm (2.25") with larger clamp	2.5 - 7.6 cm (1" to 3")
Power Consumption	9 W nominal, 12 W peak	9 W nominal, 12 W peak
Input Voltage	20 - 32 V DC	20 - 32 V DC
CERTIFICATIONS		
Industry Canada	109W-0032	109W-0042
FCC ID	Z8H89FT0032	Z8H89FT0042
ETSI	EN 301 893 v1.8.1, EN 301 893 v2.1.1 Clause 4.8	EN 301 893 v1.8.1,EN 301 893 v2.1.1 Clause 4.8
	EN 302 502 v2.1.1	EN 302 502 v2.1.1

C050045C011A (MID-GAIN) ANTENNA PATTERNS



C050045H012A (HIGH GAIN) ANTENNA PATTERNS



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Planet Communications Asia PLC.

157 Soi Ramindra 34, Ramindra Rd., Tarang, Bangkhen, Bangkok 10230

Tel: +66 2 792 2400 | Fax: +66 2 792 2499, +66 2 943 5771 | E-mail: sales@planetcomm.com



PlanetComm: