



# PMP 100 Access Point

The Cambium Networks Point-to-Multipoint (PMP) 100 Series product is the ideal solution for developing, enhancing and extending advanced broadband networks and services – and for making delivery of high-demand applications like Internet access, voice over IP, video services, and security surveillance much quicker and much less expensive.

Cambium Networks products combine field-proven toughness with exceptional performance, security, ease-of-use and cost effectiveness. Available in frequencies from 2.4 GHz to 5 GHz with total throughputs up to 14 Mbps, and an array of options and accessories, PMP 100 is the right choice for government, business and residential applications.

Cambium Networks provides exceptional wireless broadband connectivity solutions. With more than 3 million modules deployed in thousands of networks around the world, Cambium solutions are proven to provide cost effective, reliable data, voice and video connectivity.

## SPECIFICATIONS

### PRODUCT

|                     |                                                                                                                                                                                      |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MODEL NUMBER</b> | 2.4 GHz - 2400APDD, 2450APDD<br>5.1 GHz - 5202APG, 5252APG<br>5.2 GHz - 5200APG, 5250APG<br>5.4 GHz - 5400APG, 5450APG<br>5.8 GHz - 5700APG, 5750APG<br>5.9 GHz - 5900APBB, 5950APBB |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### SPECTRUM

|                        |                                                                                                                                                                              |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CHANNEL SPACING</b> | 2.4 GHz - Configurable on 2.5 MHz increments<br>5 GHz - Configurable on 5 MHz increments                                                                                     |
| <b>FREQUENCY RANGE</b> | 2.4 GHz - 2415 - 2457.5 MHz<br>5.1 GHz - 5150 - 5350 MHz<br>5.2 GHz - 5250 - 5350 MHz<br>5.4 GHz - 5470 - 5725 MHz<br>5.8 GHz - 5725 - 5850 MHz<br>5.9 GHz - 5850 - 6050 MHz |

|                      |        |
|----------------------|--------|
| <b>CHANNEL WIDTH</b> | 20 MHz |
|----------------------|--------|

### INTERFACE

|                           |                                                                         |
|---------------------------|-------------------------------------------------------------------------|
| <b>ETHERNET INTERFACE</b> | 10/100 Base T, half/full duplex. Rate auto negotiated (802.3 compliant) |
| <b>PROTOCOLS USED</b>     | IPV4, UDP, TCP, ICMP, Telnet, HTTP, FTP, SNMP, PPPoE                    |
| <b>NETWORK MANAGEMENT</b> | HTTP, TELNET, FTP, SNMPv2c                                              |

### PERFORMANCE

|                                            |                                                                       |
|--------------------------------------------|-----------------------------------------------------------------------|
| <b>MAXIMUM AGGREGATE THROUGHPUT</b>        | CAP120 - 7 Mbps<br>CAP130 - 14 Mbps                                   |
| <b>LATENCY</b>                             | 5 - 7 msec                                                            |
| <b>VLAN</b>                                | 802.1Q with 802.1p Priority                                           |
| <b>MODULATION TYPE</b>                     | CAP120 - 2-level Frequency Shift Keying (FSK)<br>CAP130 - 4-level FSK |
| <b>CARRIER TO INTERFERENCE RATIO (C/I)</b> | -3dB @ 2 level FSK, -10dB @ 4 Level FSK                               |

# SPECIFICATIONS

|                                     |                                                                                                  |
|-------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>ACCESS METHOD</b>                | Time Division Duplexing/Time Division Multiple Access (TDD/TDMA)                                 |
| <b>LINK BUDGET</b>                  |                                                                                                  |
| <b>ANTENNA BEAM WIDTH</b>           | 3 dB antenna beam width 60 degrees, Azimuth and Elevation                                        |
| <b>ANTENNA GAIN</b>                 | 2.4 GHz - 8 dBi<br>5 GHz - 7 dBi                                                                 |
| <b>EIRP</b>                         | 2.4 GHz - Up to 33 dBm<br>5 GHz - Up to 30 dBm                                                   |
| <b>SENSITIVITY (dBm typical)</b>    | -86 dBm @ 2 Level FSK, -79 dBm @ 4 Level FSK                                                     |
| <b>PHYSICAL</b>                     |                                                                                                  |
| <b>HORIZONTAL POLARIZED OPTION</b>  | 5.2, 5.4 and 5.8 GHz                                                                             |
| <b>CONNECTORIZED ANTENNA OPTION</b> | 5.4 GHz, 5.7 GHz                                                                                 |
| <b>MEAN TIME BETWEEN FAILURE</b>    | > 40 years                                                                                       |
| <b>TEMPERATURE</b>                  | -40° F to +131° F (-40° C to +55° C)                                                             |
| <b>WEIGHT</b>                       | 1 lb (.45 kg)                                                                                    |
| <b>WIND SURVIVAL</b>                | 118 miles/hr (190 km/hr)                                                                         |
| <b>DIMENSIONS (HxWxD)</b>           | 30 x 9 x 9 cm (11.75" x 3" x 3")                                                                 |
| <b>MAXIMUM POWER CONSUMPTION</b>    | 8 W                                                                                              |
| <b>INPUT VOLTAGE</b>                | 24 - 30 VDC                                                                                      |
| <b>SECURITY</b>                     |                                                                                                  |
| <b>ENCRYPTION</b>                   | DES, AES Optional FIPS 197 Certified – 5.1 and 5.9 GHz are DES only                              |
| <b>CERTIFICATIONS</b>               |                                                                                                  |
| <b>FCC ID</b>                       | 2.4 GHz - ABZ89FC5808<br>5.2 GHz - ABZ89FC3789<br>5.4 GHz - ABZ89FT7623<br>5.8 GHz - ABZ89FT7630 |
| <b>INDUSTRY CANADA CERT</b>         | 2.4 GHz - 109W-2400<br>5.2 GHz - 109W-5200<br>5.4 GHz - 109W-5400<br>5.8 GHz - 109W-5700G        |
| <b>CE</b>                           | 2.4 GHz - EN 300 328<br>5.4 GHz - EN 301 893<br>5.8 GHz - EN 302 502                             |