

# ePMP™ 2000 Smart Antenna

ePMP has set the standard for high performance, scalability, and reliability in harsh interference environments all at a compelling price. ePMP 2000 is the next-generation Access Point bringing interference tolerance to a whole new level with unique Hypure™ technology, which combines *Intelligent Filtering* and *Smart Beamforming* to deliver new levels of performance in the face of interference.

The ePMP 2000 System consists of a high-performance, GPS-Synchronized Access Point (AP) Radio with *Intelligent Filtering*, a new compact high-performance Sector Antenna, and an optional Smart Antenna.

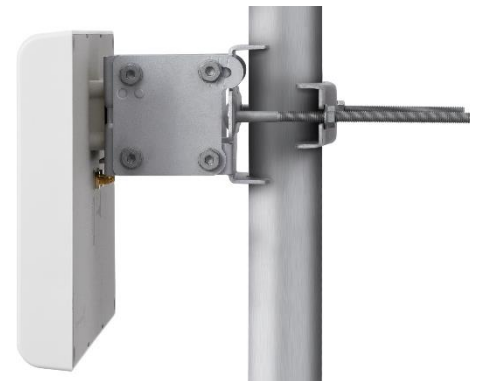
*Intelligent Filtering* improves both receive and transmit performance. It protects the network from off-channel interferers with a filter that dynamically moves around the channel. On the transmit side, it protects the RF environment by reducing off-channel transmission noise.

*Smart Beamforming* drastically reduces the effects of on-channel interference. The System learns the locations of each served Subscriber Module (SM) and forms a narrow beam toward the desired SM while that radio is transmitting in the uplink. This reduces the gain on the uplink for on-channel interferers that are transmitting at an azimuth angle different from the SM, delivering performance gains never before seen.

This specification sheet is for the ePMP 2000 Smart Antenna.

## KEY ADVANTAGES:

- **Eliminate Uplink Interference:** Smart Beamforming delivers dramatic performance improvements when dealing with strong co-channel uplink interference, maximizing network performance.
- **Consistent Performance in High Interference:** By mitigating significant sources of interference, packet loss and retransmissions are kept to a minimum, keeping your network applications working at their best.
- **Improvement in Uplink and Downlink Performance:** By eliminating packet loss and retransmissions resulting from co-channel uplink interference, TCP retransmissions are greatly reduced. Other applications also show significant performance benefits.



Environmental Cover not pictured.

## Specifications

### PRODUCT

|               |                             |
|---------------|-----------------------------|
| Model/Part #  | C050900D020A                |
| Compatibility | ePMP 2000 Access Point only |

### SPECTRUM

|                 |   |
|-----------------|---|
| Frequency Range | 5150 – 5970 MHz (exact frequencies as allowed by local regulations) |
|-----------------|---|

### PHYSICAL

|                              |  |
|------------------------------|--|
| Connectors to Access Point   | 2 x 50 ohm, RP (Reverse Polarity) SMA, DC Coupled (powering antenna)   |
| Mounting Hardware            | Included for mounting to ePMP 5 GHz Sector Antenna (C050900D021A)<br>Included for mounting to mast diameters 2" to 4" (5 cm to 10 cm)<br>Up to +10 degree tilt |
| Physical Dimensions          | 13.1" (L) x 8.4" (W) x 1.8" (H) (33.3 cm x 21.3 cm x 4.6 cm)<br>Without mounting brackets  |
| Weight                       | 3.2 lbs. (1.5 kg)<br>Without mounting brackets   |
| Environmental                | IP65   |
| Radome Material              | UV Protected ABS   |
| Operating Temperature        | -30°C to +55°C (-22°F to +131°F)   |
| Power Consumption            | 2.5 W [1] (provided by ePMP 2000 Access Point)   |
| Environmental Cover Included | Yes  |

### PRODUCT

|         |              |
|---------|--------------|
| Model # | C050900D020A |
|---------|--------------|

### SPECTRUM

|                 |   |
|-----------------|---|
| Frequency Range | 5150 – 5970 MHz (exact frequencies as allowed by local regulations) |
|-----------------|---|

#### Notes:

[1] The maximum power consumption of the Access Point is the same regardless of whether the optional Smart Beamforming Antenna is equipped or not. This is because the Beamforming Antenna draws its power during the uplink cycle when the Access Point power consumption is not at its maximum.