

5 OPTIONS FOR NETWORK SYNCHRONIZATION

The CMM provides Global Positioning System (GPS) synchronization to the Access Point (AP) and all associated Subscriber Modules (SM). Network operators have a choice of CMM solutions to select the option that works best for the environment.

1. Universal GPS (UGPS)

The UGPS provides network synchronization for smaller networks where a CMM may not be cost effective. The UGPS provides synchronization for one or two modules so that even remote areas at the edge of the network can operate with synchronization for improved performance. The UGPS works with all Cambium PMP radios. The UGPS has a small footprint and is easy to deploy.

2. CMM4 (Rack Mount)

The cluster management module (CMM) is the heart of the Cambium system's synchronization capability, which allows network operators to reuse frequencies and add capacity while ensuring consistency in the quality of service to customers. For operators who prefer indoor CMM mounting, Cambium offers the Rack-Mounted Cluster Management Module 4. The unit is designed to be mounted onto a standard 19-inch telecommunications rack and to allow the Cambium CMM4 to be collocated with other telecommunications equipment.

3. CMMmicro (CMM3)

The Cluster Management Module 3 (CMM3), also known

as the CMMmicro, allows network operators to reduce the time and labor cost of system installation and maintenance in AP Clusters. This management module reduces cabling between system modules and provides reliable network synchronization. There is only one cable going from the CMM3 to each module carrying the Ethernet connection, synchronization pulse and GPS data.

4. CMM4 (Cabinet without switch)

This CMM includes all of the functionality listed above but there is no switch. This provides the network operator the flexibility to use the switch of their choice with the power and synchronization capabilities of the CMM4.

5. CMM4 (Cabinet with switch)

Designed to deliver consistent and reliable wireless broadband service, the PMP system gracefully scales to support large deployments. The cluster management module is the heart of the system's synchronization capability which allows network operators to re-use frequencies and add capacity while ensuring consistency in the quality of service to customers. As a result, subscribers can experience carrier-grade service even those at the outer edge of the network.

"We grew more and more dissatisfied with the performance of our initial network. About three years ago, we made the decision to replace our existing infrastructure with the Cambium PMP network."
Stig Pettersen, Co-founder,
TotalNett Norway