MOTOROLA
intelligence everywhere™

Reduce Costs of System Installation and Operation
Service providers need to offer superior service to
their customers at the lowest cost. The Cluster
Management Module micro (CMMmicro) allows
network operators to reduce the time and labor cost
of system installation and maintenance in partial
Canopy clusters. The CMMmicro provides reliable
network synchronization with a more integrated
solution including:

- 8 access ports
- Managed switch
- Smaller, light weight enclosure
- Reduced cabling

Designed to deliver consistent and reliable wireless
broadband service, the Canopy system gracefully
scales to support large deployments. The CMMmicro
is the heart of the system's synchronization
capability which allows network operators to re-use
frequencies and add capacity while consistently
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.

REDUCED COST OF OPERATIONS

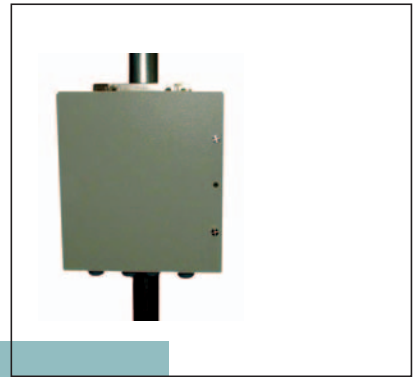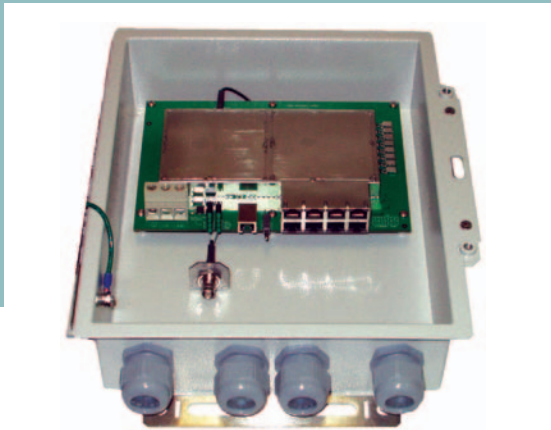**Reduced Cabling Between System Modules**
There is only one cable going from the CMM to
each Access Point (AP) module carrying the Ethernet
connection, synchronization pulse and GPS data.
Integration reduces the number of points of potential
failure in the module and improves the quality of
service by reducing down time, saving service
providers hundreds of dollars in the labor and
material cost of cabling to each of the radios and
backhauls. Integrated cabling also reduces the time
and costs associated with system troubleshooting
and maintenance. For network operators interested in
customizing their CMM to include specific equipment
such as a router, Motorola offers the CMM2 with

physical access to the connections between the
switch and the AP.

Smaller Enclosure
The smaller enclosure of the CMMmicro reduces the
time and cost associated with installation labor. The
enclosure requires 25% of the space of the larger
CMM and its 8 lb weight is 1/3 of the larger CMM.

As a result, the CMMmicro can be installed quickly by one person. The CMMmicro can be placed on either a tower or in a convenient location which allows network operators more flexibility in placing network equipment. This reduces the overall cost of operations and improves profitability.

Managed Switch

A CMMmicro can be managed with a Network manager using Simple Network Management Protocol (SNMP). Most functionality provided by the CMMmicro's web browser interface is supported by the Canopy Enterprise Management Information Base (MIB) included in Canopy Release 4.0 Software.

Direct Connect to Backhaul Modules

The CMMmicro connects directly with backhaul modules co-located with APs. This saves network operators the time and expense of installing a separate bridge or switch to interconnect radio and backhaul modules.

Availability

The Canopy CMMmicro is currently available and may be ordered now.

SPECIFICATIONS

Electrical

Power	24 VDC @ 0.3 AMP
	separate 115/230 V AC to 24 DC power converter

Environmental

Operating temperature	40°C to +55°C	-40°F to +131°F
Operating humidity	100% condensing	

Dimensions

Approximately 12.00" H x 10.00" W x 3.00" D
Approximate Weight 8.0 lbs.

For more information about how the Canopy system can extend your network and services, and provide competitive advantage and outstanding ROI, call 1-866-515-5825 or visit us at:
www.motorola.com/canopy.com

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