

Opti Max™ Optical Node Series

DOCSIS® Management Module (DMM)

for Opti Max OM4120™ and OM6000™ Nodes

FEATURES

- Compatible with OM6000 and OM4120 optical nodes
- Dual powering, 24 and 34 VDC, to support both HFC and Fiber Deep applications
- DOCSIS and EuroDOCSIS™ 2.0 compatibility

The CommScope DOCSIS Management Module (DMM) allows end users to proactively monitor and control an OM6000 or OM4120 node using their existing DOCSIS infrastructure. The DMM utilizes the standards adopted by the SCTE-HMS subcommittee for fiber node monitoring and provides easy access to information and control through standard SNMP MIBs.

The DMM operates in conjunction with a compatible Status Monitor Card (SMC). The SMC detects, monitors, and controls modules that are installed in the node. The SMC also gathers information from the node and transmits it to the end user's network monitoring system.

Opti Max nodes are monitored and controlled via the DMM using HMS Management Information Base (MIBs) over DOCSIS protocol. The DMM collects electronic Module Architecture Profile (eMAP) data from the SMC and transforms the data to HMS and CommScope proprietary MIB format and transmits this data to the headend using DOCSIS protocol.



SPECIFICATIONS¹

Characteristics	Specification
Physical	
Size	6.0 in L x 1.2 in W x 4.84 in H (15.24 cm x 3.05 cm x 12.29 cm)
Weight	1 lb (0.45 kg) (max)
Local Port Connector(s)	RJ-45
Tamper Switch, Optical Sensor Type	Phototransistor sensor
Environmental	
Operating Temperature	-40° to 60°C (-40° to 140°F)
Storage Temperature	-40° to 90°C (-40° to 194°F), compliant to IEC 68
Humidity	0% to 95%, non-condensing
RF	
Downstream RF Input	-15 dBmV to +15 dBmV, 88 to 860 MHz
Upstream RF Output	+8 dBmV to +58 dBmV, 5 to 42 MHz
Return Loss	Greater than 8 dB typical
Status Table Rebuild/download	At power up and plug-in module change
Alarm Limit Values ²	Default values from plug-in module at 1st power up. User values subsequently
Indicators	
DOCSIS Functionality Indicators (LEDs 1–5, All Green)	Power, DS, US, ONLINE (Link Activity), ENET (E-link Activity)
Status	Varies on SMC Module for OM4120 and OM6000 Nodes
Power Requirements	
Maximum	4.4 W
Typical, Assuming < 5% Transmit Time	< 4.0 W

NOTES:

1. The DOCSIS Management Module (DMM) is presently available for Opti Max OM4120 and OM6000 nodes.
2. Alarm limit values are the user alarms if a module of the same part number is substituted; default alarms if a different part is substituted. Remote Factory Reset causes the default alarms to be reloaded.

RELATED PRODUCTS

Opti Max OM4120 Nodes	Status Monitor Card
Opti Max OM6000 Nodes	CORView™ Element Management Software

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

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Note: Specifications are subject to change without notice.

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