DRM3-WP DOCSIS® 3.0
Temperature Hardened Weatherproof Cable Modem

Description

The DRM3-WP series Rugged Cable Modem is DOCSIS® 3.0 and EuroDOCSIS™ 3.0 compliant and is weatherproof and specially designed for installations where temperatures can be extreme, uncontrolled, and typical of the outside plant in an HFC cable network. This cable modem is designed to withstand electrical over-voltages and surges commonly experienced in HFC network outside plant. All Electroline DRM products have been designed to pass stringent surge tests specified by the Institute of Electrical and Electronics Engineers.

Application

The DRM3-WP provides data communication from an Ethernet network for any devices requiring interactive or backhaul communications. The backhaul is provided by the cable modem over an HFC access network. Common applications for this device may be video surveillance, traffic surveillance, remote telemetry, traffic light control, cell site backhaul, and Wi-Fi AP backhaul, etc.

There are many applications requiring data communication from sites where the environment would cause a consumer-grade cable modem to fail or perform poorly. An Electroline DRM3-WP can be used in these applications to generate incremental revenue and provide service that would otherwise go unrealized or be provided by a competing communications provider. The uncertainty of possible interference with other services is a risk for the cable operator if a consumer-grade cable modem is used. The Electroline DRM Series is tested in extreme environments and is a "good neighbor" to all the services that are carried by HFC networks.

Features

- Designed for DOCSIS® & EURODOCSIS™ specifications
- Network Monitoring - Embedded Spectrum Analyzer
- Eight (8) bonded downstream channels with data rates in excess of 340 Mbps.
- Four (4) bonded upstream channels with data rates in excess of 120 Mbps.
- Enhanced packet processing technology
- Support for BSOD, L2VPN and extended power option
- Strand or pedestal mounting
- HFC cable powered, 40 to 90 Vac
- 10/100/1000 BASE-T auto sensing / auto-MDIX Ethernet port
- Power over Ethernet (PoE) option to supply connected devices
- Temperature Hardened and weather proof housing.
- Optional wall outlet power supply
- LED status indicators

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	DOCSIS®	EURODOCSIS™
RF DOWNSTREAM		
Operating Frequency Range	88 to 1002 MHz	108 to 1002MHz
Tuner Frequency Range	88 to 1002 MHz	108 to 1002MHz
Tuner	(1) Frequency agile block tuner	
Demodulation	8 demodulators, 64 QAM or 256 QAM	
Maximum Data Rate	8 downstream channels, each 6 MHz channel: 42.88 Mbps for 256 QAM and 30.34 Mbps for 64 QAM	8 downstream channels, each 8 MHz channel: 55.62 Mbps for 256 QAM and 41.71 Mbps for 64 QAM
Bandwidth per Channel	6MHz	8MHz
Operating Level Range	-15 to +15dBmV	+43 to +73 dBµV for 64 QAM +47 to +77 dBµV for 256 QAM
Input Impedance	75 ohms	
RF UPSTREAM		
Operating Frequency Range	5 to 42 MHz, 5 to 65 MHz, or 5 to 85 MHz	5 to 65 MHz
Transmitter Frequency Range	5 to 42 MHz, 5 to 65 MHz, or 5 to 85 MHz	5 to 65 MHz
Upstream Transmission	4 upstream channels	
Modulation	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM at ATDMA Mode QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM, 128 QAM at SCDMA mode	QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM / ATDMA Mode, 128 QAM / SCDMA mode
Maximum Data Rate per Modulation	**Raw Data Rate (Mb/s) Bandwidth (MHz)**	**Raw Data Rate (Mb/s) Bandwidth (MHz)**
QPSK	1.6 2.56	1.6 2.56
16 QAM	1.6 5.12	1.6 5.12
QPSK	3.2 5.12	3.2 5.12
16 QAM	3.2 10.24	3.2 10.24
32 QAM	3.2 12.8	3.2 12.8
64 QAM	6.4 15.4	6.4 15.4
16 QAM	6.4 20.5	6.4 20.5
32 QAM	6.4 25.6	6.4 25.6
64 QAM	6.4 30.72	6.4 30.72
ELECTRICAL		
Input Voltage	Cable powered 40 to 120 AC 50 / 60 hz sign or Quasi square wave; or Wall plug adaptor: @ Input = 100 to 240 volts Ac, 50/60 Hz	
Power Consumption (modem module)	<10 Watts	
Surge Protection (F connector) Ring Wave Combination wave	IEEE C62.41-1991, cat A3 6KV 200A IEEE C62.41-1991, cat B3 6KV 3KA	IEC 61000-4-12, Level 4 (4KV/133A) IEC 61000-4-5, Level 4 (4KV/2KA)
Data Ports	Ethernet 10/100/1000BASE-T (Auto-sensing with Auto-MDIX) RJ-45 Ethernet (1)	
RF	Female "F" type	
Power Over Ethernet (PoE)	Standard configuration: 48Vdc at 350ma; Optional configurations: 24Vdc at 650ma; or 12Vdc at 1250 ma	
MECHANICAL		
Dimension (W x D x H)	Not including "F" connector: 9.2"x4.2"x7.6" (24cmx11cmx19.2cm)	
Weight	5 lbs	
Operating Temperature	40° to 140°F (-40° to 60°C)	
Operating Humidity	0 to 90% RH non-condensing	
Designed to Comply with the Following Standards	DOCSIS / EuroDOCSIS 3.0, 2.0, 1.1, 1.0	
Regulatory and Safety Approvals	As required per country	

For more information on our products, please visit: www.electroline.com or call: 800-461-3344

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