HDCM-Dx series

technetix

- **IP54 rated enclosure**

- **2x2 OFDM/OFDMA DOCSIS® 3.1 channels and/or 32x8 SCQAM DOCSIS 3.0**

- **Full-capture bandwidth tuner**

- **Multiprocessor technology with ARM-based application processor**

- **2 gigabit Ethernet ports**

- **US and DS spectrum analyzer**

- **Compact and economical**

Other features

- **Well defined LED network status display**
- **Wall-mountable**
- **Operating temperature: -40°C to +60°C (-40°F to +140°F) hardened**
- **Features dependent on cable modem selected**

Temperature-hardened D3.0/3.1 cable modems

These temperature-hardened IP54 DOCSIS 3.0/3.1 cable modems from Technetix are specifically engineered for harsh, outdoor deployments requiring gigabit+ data communications. These cable modems are an ideal solution for installations where temperature fluctuations are prevalent. Many applications to empower your HFC network for profitable IP services can be realized with these hardened cable modems. Communication links, security and traffic cameras, digital signage, access points, and information kiosks are just a few examples of successful deployments.

These modems utilize multiple provisioning methods (SNMP, configuration file, remote Web GUI access) to allow for a custom-designed set up. These feature-rich cable modems allow operators to access critical information via spectrum analysis, monitoring, and diagnostics.

HDCM-Dx series

HDCM-D3.1-CM8200
(front view)

HDCM-D3.0-SB6183
(front view)

HDCM-D3.1-CM8200
(rear view)

HDCM-D3.0-SB6183
(rear view)

HDCM-Dx series device and performance specifications

Interfaces

Parameter		HDCM-Dx series		Units	Notes
		DOCSIS® 3.0	DOCSIS 3.1		
RF interface		1 external F-type connector	1 external F-type connector		
Data interfaces		1x 10/100/1000 Base-T Ethernet (RJ45 connector)	Bridged 2x 10/100/1000 Base-T Ethernet (RJ45 connector)		
Input voltage	Nominal	+12	+12	VDC	

Cable modem [1]

Parameter		HDCM-Dx series		Units	Notes
		DOCSIS 3.0	DOCSIS 3.1		
Certifications		DOCSIS 3.0 (2.0 and 1.x compatible)	DOCSIS 3.0/3.1 CableLabs® certified		
Band plans		DOCSIS (Annex A and Annex B options)	DOCSIS 3.1		
Network configuration and management		TFTP, SNMP (V2c, V3), Telnet, HTTP	TFTP, SNMP (V1, V2c, V3), Telnet, HTTP		
Input impedance		75	75	Ω	
Privacy		BPI+, EAE, SSD	BPI+		
Downstream modulation		64 or 256 QAM	Up to 32 SCQAM or 2 OFDM		
RF input sensitivity	Modem F-port	+15 to -15 dBmV for ATDMA QAM 64 (-10 dBmV for 256 QAM)	+15 to -15 dBmV		2

HDCM-Dx series device and performance specifications

Cable modem [1]

Parameter	HDCM-Dx series		Units	Notes
	DOCSIS 3.0	DOCSIS 3.1		
Upstream modulation	QPSK and 8, 16, 32, 64, 128 QAM	Up to 8 SCQAM or 2 OFDMA		
Upstream data rate (max.)	131.072 Mbps (4 channels) / 32.768 Mbps (single channel): @ 128 QAM at 6.4 MHz	Over 1 Gbps		
Transmit power (max.)	Modem F-port	+54 dBmV (47-50 dBmV recommended)	+65 dBmV for OFDMA		2
			+57 dBmV for 16 QAM, 4-8 upstreams		2

Mechanical and environmental specifications

Parameter	HDCM-Dx series		Units	Notes
Operating humidity	5-85%, non-condensing		%	
Operating temperature	-40°C to +60°C (-40°F to +140°F)		°C/°F	
Storage temperature	-40°C to +70°C (-40°F to +158°F)		°C/°F	
Diagnostic LEDs	Front	Power, US/DS, online		
	Rear	Ethernet link/speed		
Housing	IP54 rated			
Dimensions (H x W x D)	2.0"H x 6.5"W x 8.0"D (5.1H x 16.5W x 20.3D cm)		in/cm	
Weight	1.5 lb (0.7 kg)		lb/kg	

Notes

1	Typical. Specification will vary depending on which model of modem is ordered
2	Levels reported by modem management interfaces reference the modem F-port

Order information

Item code	Description
HDCM-D3.1-CM8200	Temperature-hardened DOCSIS 3.1 8200 modem
HDCM-D3.0-SB6183	Temperature-hardened DOCSIS 3.0 6183 modem