

MDM2010 Satellite Modem



The Newtec Dialog modem series consist of two-way, high throughput DVB-S2X modems that meet any application across a broad array of markets. The modems share a wide range of key features and can be easily mixed in a single satellite network on the multi-service Dialog platform. The series is extremely flexible supporting DVB-S2X forward and featuring the high throughput, flexible MF-TDMA and Mx-DMA MRC (Multi-resolution coding) returns. Dialog modems guarantee high efficiency and availability.

The MDM2010 is a compact, lightweight desktop modem with very low power consumption. The MDM2010 is bundled with a range of different antenna sizes and interactive LNBs forming an affordable satellite terminal on the Dialog platform. Its ease of installation and high performance modulation techniques enable network operators to offer IP broadband services in a cost-effective way.

Markets

Consumer
SOHO
SME
Government
Education
Enterprise

Main Features:

- DVB-S2X support up to 500 Mps in the forward link
- Mx-DMA with MRC (Multi-Resolution Coding) up to 10 Mps return Link
- High throughput, up to 120/10 Mbps
- Support for single cable and dual cable outdoor units
- Unique Point&Play easy-installation capability
- Easy to use multilingual web GUI for installation, diagnostics and troubleshooting

DIALOG

powered by

Newtec  **iDIRECT**



Network Configuration

Network Topology	Rx	Tx	
	DVB-S2/DVB-S2X	Mx-DMA - MRC (Multi-ResCoding)	MF-TDMA
Modulation	QPSK, 8PSK, 16APSK, 32APSK, 64APSK	QPSK, 8PSK, 16APSK, 32APSK, 64APSK	4CPM
Symbol Rates	256 ksps to 500 Msps	32 ksps to 10 Msps	Up to 7.6 Msps

Modem Interfaces

Tx Interface

Connector	F-Type 75 Ohm
Frequency	2750-3000 MHz
TX level	0 dBm

Rx Interface

Connector	F-Type 75 Ohm
Frequency	950-2150 MHz
RX level	-65 to -25 dBm
LNB power	13/18VDC, 500mA

Data Interface

LAN: One 10/100/1000 Mbps Ethernet, auto MDI/MDIX

Future Use

MicroSD mass storage option MicroSD cards

Management

Protocols Supported

UDP, IPv4 & IPv6, ICMP, TCP, IGMPv1, IGMPv2, ARP, DHCP, DNS, NTP, Diffserv Marking

Multilingual Web GUI

Manage web GUI via configurable management IP address

Mechanical and Environmental

Housing	W 8.2 cm x D 17.7 cm x H 21.2 cm (W 3.23 in x D 6.96 in x H 8.34 in)
Weight	0.48 kg (1.05 lbs)
Temperature:	
Operating	0° to +40°C (32° to +104°F)
Storage	-10° to +60°C (14° to +140°F)
Humidity:	
Operating	5 - 95% non-condensing

Power Supply

Input Voltage	50Hz\220-260 V, 60Hz\100-130 V 24 VDC
Mains Power Consumption	60W maximum
Modem Power Consumption	21W maximum



Key Features

- High Level of integration
- Low power consumption
- Suitable for all weather conditions
- Offset feed clamp option or Quad iLNB for DTH reception
- Ku/Ka-dual band antennas support operational flexibility

Performance

ODU Type	Ka-band					
	ILB2220 ANT2010 0.75 m	ILB2220 ANT2025 1m	ILB2221 ANT2035 1.2 m	ILB3210 ANT2010 0.75 m	ILB3210 ANT2025 1 m	
Rated Power	2	2	2	2	2	Watt
Rx Frequency Range	18.1 - 20.2		17.7 - 20.2			GHz
XPD Rx	22					dB
G/T (mid-band)	18.6	21.1	22.2	TBD	TDB	dB/K
Tx Frequency Range	28.1 - 30.0		29.0 - 30.0			GHz
XPD Tx	24					dB
EIRP (mid-band)	47.9	50.4	52.0	TBD	TBD	dBW

LNB Interface

ILB2220/ILB2221/ILB3210: 1 F-connector