MDM2010
Satellite Modem

ST Engineering

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 guarentee high efficiancy 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 Msps in the forward link
- Mx-DMA with MRC (Multi-Resolution Coding) up to 10 Msps return Link
- 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		Up 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
- Ku/Ka-dual band antennas support operational flexibitiy

ODU Portfolio

	Ku-band			Ka-band					
ODU Type	ILB2140 ANT2010 0.75 m	ILB2140 ANT2025 1m	ILB2141 ANT2035 1.2 m	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	2	2	2	Watt
Rx Frequency Range	10.7 - 12.75			18.1 - 20.2			17.7 - 20.2		GHz
Tx Frequency Range	13.75 - 14.5			28.1 - 30.0			29.0 - 30.0		GHz
Return Waveform Support	4CPM Only			4CPM Only			Mx-DMA MRC		

LNB Interface

ILB2140/ILB2141 : 2 F-connectors

ILB2220/ILB2221/ILB3210: 1 F-connector