MDM2210
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 returns. Dialog modems guarentee high efficiancy and availability.

The MDM2210 is a compact, lightweight desktop modem with very low power consumption. The MDM2210 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.

DIALOG

Markets

- Consumer
- SOHO
- SME
- Government
- Education
- Enterprise

Main Features:

- DVB-S2X support up to 500 Msps in the forward link
- Optional Wi-Fi and advanced routing support
- Support for single cable outdoor units
- Unique Point&Play easy-installation capability
- Easy to use multilingual web GUI for installation, diagnostics and troubleshooting
- Adaptive return link based on different MF-TDMA modulations/coding and multiple channel bandwidths

Network Configuration

Network Topology	Rx	Tx
	DVB-S2/DVB-S2X	MF-TDMA
Modulation	QPSK, 8PSK, 16APSK,32APSK, 64APSK (DVB-S2X Annex-M)	4CPM
Symbol Rates	3.6 Msps to 480 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
Data Interface	
LAN: One 10/100/1000 Mbps Ethernet, auto MDI/MDIX	
OPTIONAL WI-FI: 802.11 b/g/n, 2.4 GHz	
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

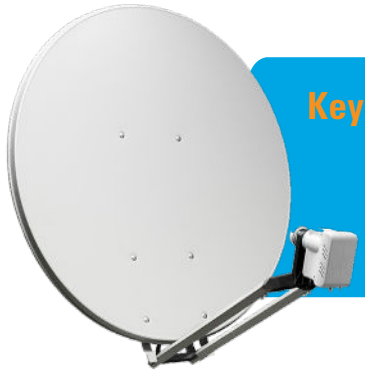
Mechanical and Environmental

Housing	W 18.6 cm x D 15.3 cm x H 1.8 cm (W 7.32 in x D 6.02 in x H 0.71 in)
Weight	0.475 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\210-260 V, 60Hz\100-130 V
	18 or 24 VDC (depending on iLNB)
Power Consumption	<30 W (0.8 W Ku iLNB) <60 W (2 W iLNB)

ST Engineering



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 flexibitiy

Performance

	Ku-band								Ka-band			
ODU Type	ILB2120	ILB2120	ILB2121	ILB2140	ILB2140	ILB2141	ILB2145	ILB2145	ILB2220	ILB2220	ILB2221	
	ANT2010	ANT2025	ANT2035	ANT2010	ANT2025	ANT2035	ANT2010	ANT2025	ANT2010	ANT2025	ANT2035	
	0.75 m	1 m	1.2 m	0.75 m	1 m	1.2 m	0.75 m	1 m	0.75 m	1m	1.2 m	
Rated Power	0.8	0.8	0.8	2	2	2	2	2	2	2	2	Watt
Rx Frequency Range	10.7 - 12.75								18.1 - 20.2			GHz
XPD Rx	24	24	26	24	24	26	24	24		22		dB
G/T (mid-band)	15.4	17.9	19.4	15.4	17.9	19.4	15.1	17.6	18.6	21.1	22.2	dB/K
Tx Frequency Range	13.75 - 14.5								28.1 - 30			GHz
XPD Tx	24	24	26	24	24	26	24	24		24		dB
EIRP (mid-band)	37.8	40.3	41.9	41.8	44.3	45.9	41.7	44.2	47.9	50.4	52.0	dBW

LNB Interface

2 F-connectors
ILB2220/ILB2221: 1 F-connector
ILB2145: 5 F-connectors

	Ku-band			Ka-band		
	75 cm	1 m	1.2 m	75 cm	1 m	1.2 m
0.5 W	✓	✓				
0.8 W	✓	✓	✓			
2.0 W	✓	✓	✓	✓	✓	✓
2.0 W quad	✓	✓				

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