# MDM2210
# 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 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.

## 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

**DIALOG**

*powered by*

**Newtec iDIRECT**

## Network Configuration

| Network Topology | Rx | Tx |
|---|---|---|
| | DVB-S2/DVB-S2X | MF-TDMA |
| Modulation | QPSK, 8PSK, 16APSK, 32APSK, 64APSK | 4CPM |
| Symbol Rates | 3.6 Msps to 500 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℃ (32° to +104°F) |
| Storage | -10° to +60℃ (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) |

## 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

| ODU Type | Ku-band | | | | | | | | Ka-band | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ILB2120 ANT2010 0.75 m | ILB2120 ANT2025 1 m | ILB2121 ANT2035 1.2 m | ILB2140 ANT2010 0.75 m | ILB2140 ANT2025 1 m | ILB2141 ANT2035 1.2 m | ILB2145 ANT2010 0.75 m | ILB2145 ANT2025 1 m | ILB2220 ANT2010 0.75 m | ILB2220 ANT2025 1m | ILB2221 ANT2035 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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