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 guarantee high efficiency 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 LN Bs 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.

Main Features:

- DVB-S2X support up to 500 Mbsp in the forward link
- High throughput, up to 100/5 Mbps, 10 Mbps
- 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: DVB-S2/DVB-S2X
- Tx: MF-TDMA

**Modulation**
- Rx: QPSK, 8PSK, 16APSK, 32APSK, 64APSK
- Tx: 4CPM

**Symbol Rates**
- Rx: 3.6 Msps to 500 Msps
- Tx: 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)
**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

<table>
<thead>
<tr>
<th>ODU Type</th>
<th>ILB2120</th>
<th>ILB2140</th>
<th>ILB2141</th>
<th>ILB2145</th>
<th>ILB2220</th>
<th>ILB2221</th>
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<tbody>
<tr>
<td>ANT210</td>
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### Rated Power

<table>
<thead>
<tr>
<th>Rx Frequency Range</th>
<th>10.7 - 12.75</th>
<th>18.1 - 20.2</th>
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<tbody>
<tr>
<td>XPD Rx</td>
<td>24</td>
<td>24</td>
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<tr>
<td>G/T (mid-band)</td>
<td>15.4</td>
<td>17.9</td>
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<tr>
<td>Tx Frequency Range</td>
<td>13.75 - 14.5</td>
<td>28.1 - 30</td>
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<td>XPD Tx</td>
<td>24</td>
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<tr>
<td>EIRP (mid-band)</td>
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</table>

### LNB Interface

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

### Compatibility Table

<table>
<thead>
<tr>
<th>ODU Type</th>
<th>ILB2120</th>
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<table>
<thead>
<tr>
<th>Rated Power</th>
<th>0.5 W</th>
<th>0.8 W</th>
<th>2.0 W</th>
<th>2.0 W quad</th>
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