

MDM3310 SATELLITE MODEM



The Newtec Dialog modem series consists of two-way, high throughput DVB-S2X modems that meets 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 as it can leverage Dialog's three return waveform technologies: MF-TDMA, high-rate SCPC and Mx-DMA which seamlessly combines MF-TDMA flexibility with on-demand variable bandwidth allocation of SCPC while guaranteeing the highest efficiency and availability. This series also supports wideband operations up to 500 Msp/s in the forward channel, enabling service providers to set-up almost any type and size of network on any available type of satellite.

The MDM3310 Satellite Modem supports a wide range of fixed IP services, including Internet/ intranet access, VoIP, enterprise connectivity, maritime and multicasting services. With its high data rates, the MDM3310 can also be used in backhauling applications. The wideband receive capability makes the MDM3310 a perfect fit for usage on HTS satellites. The modem's ease of installation through multilingual web GUIs and Point&Play application allows services providers to deploy their services quickly, in a cost-effective way.

The 3310 modem is also offered as a board level variant, the SMB3310.

Markets

Enterprise/SME
Cellular backhaul
Maritime
Broadcast
Government

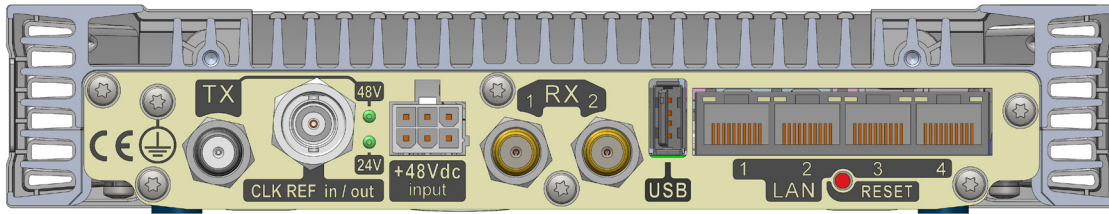
Features:

- DVB-S2 (up to 45Msp/s) / DVB-S2X (up to 500 Msp/s) outbound
- Supports DVB-S2X MODCODS up to 64APSK
- Return max rates up to 64 Msp/s (SCPC), 25 Msp/s (Mx-DMA)
- Ideal for both fixed and mobility applications
- OpenAMIP and GXT file support for mobility
- Security features with Optional AES128 scrambling
- Embedded TCP acceleration, GTP acceleration and header compression

DIALOG

powered by

Newtec 



Network Configuration

| Network Topology | Rx | Tx | | | |
|------------------|------------------------------------|----------------|----------------------------|------------------------------------|------------------------------------|
| | DVB-S2/DVB-S2X | MF-TDMA | Mx-DMA HRC | Mx-DMA MRC | SCPC |
| Modulation | QPSK, 8PSK, 16APSK, 32APSK, 64APSK | 4CPM | QPSK, 8PSK, 16APSK, 32APSK | QPSK, 8PSK, 16APSK, 32APSK, 64APSK | QPSK, 8PSK, 16APSK, 32APSK, 64APSK |
| Symbol Rates | 1 Msps to 500 Msps | Up to 7.6 Msps | Up to 20 Msps | Up to 25 Msps | Up to 64 Msps |

Modem Interfaces

Tx Interface

| | |
|------------------------|---------------------|
| Connector | F-Type 75 Ohm |
| Frequency range L-band | 950-2400 MHz |
| TX level | -55 dBm to +5 dBm |
| BUC power supply | 24VDC, 4A/48V, 3.5A |
| BUC reference | 10/50 MHz |

Rx Interface

| | |
|---------------------------------------------|---------------|
| Frequency | 950-2150 MHz |
| Connector | F-Type 75 Ohm |
| LNB power supply | 13/18VDC |
| Polarization selection power supply voltage | |
| LNB LO selection | 22 kHz on/off |

Data Interface

| |
|----------------------------------------------------|
| LAN: Four 10/100/1000 Mbps Ethernet, auto MDI/MDIX |
|----------------------------------------------------|

Future Use

| | |
|---------|-----------------------------------|
| USB | USB 2.0 |
| MicroSD | mass storage option MicroSD cards |

Management

Protocols Supported

Terminal Authentication, UDP, IP, IPv6, ICMP, TCP, ARP, FTP, DHCP, BGP, NAT, IP forwarding, Diffserv, DNS, IGMPv1/2

Multilingual Web GUI

Manage web GUI via configurable management IP address

Mechanical and Environmental

| | |
|--------------|-------------------------------------------------------------------|
| Housing | W 22 cm x D 33cm x H 4 cm (W 8.66 in x D 12.99 in x H 1.57 in) |
| Weight | 1.7 kg (3.75 lbs) |
| Temperature: | |
| Operating | 0° to +55°C (32° to +131°F) |
| Storage | -30° to +60°C (-22° to +140°F) |
| Humidity: | |
| Operating | 5 - 95% non-condensing |

Power Supply

| | |
|---------|--------------------------------------------|
| Modem | 48VDC, 4 Amps input |
| Adapter | AC, 50Hz\220-260V and 60Hz\100-130V -48VDC |

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