MDM3310
SATELLITE MODEM

ST Engineering

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 Msps 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

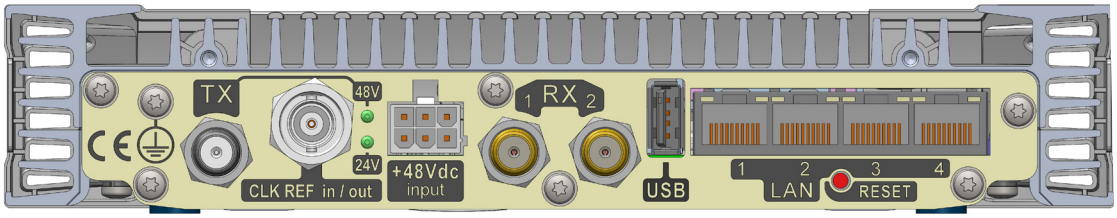
- Enterprise/SME
- Cellular backhaul
- Maritime
- Broadcast
- Government

Features:

- DVB-S2 (up to 45Msps) / DVB-S2X (up to 500 Msps) outbound
- Supports DVB-S2X MODCODS up to 64APSK
- Return max rates up to 64 Msps (SCPC), 25 Msps (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 iDirect



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