

# 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