MDM2510
Satellite Modem

The 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 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 MDM2510 is a compact, low power consumption modem, perfectly suited to service Small Office and Home Office (SOHO) customers and Small and Medium Enterprises (SMEs). With data rates up to 150 Mbps, the MDM2510 also supports applications such as Point of Sale (POS) and banking networks. 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.

Markets

Enterprise
SME
Mobility
Government

Main Features:

- DVB-S2 (up to 64 Msps) / DVB-S2X (up to 500 Msps) outbound
- Supports DVB-S2X MODCODS up to 64APSK
- Support for both MF-TDMA and MxDMA return technologies up to 20 Msps
- OpenAMIP and GXT file support for mobility
- Embedded TCP acceleration, compression, encryption

DIALOG

powered by
Newtec iDIRECT

Network Configuration

Network Topology	Rx		Tx		
	DVB-S2X	DVB-S2	MF-TDMA	Mx-DMA HRC	Mx-DMA MRC
Modulation	QPSK, 8PSK, 16APSK, 32APSK, 64APSK	QPSK, 8PSK, 16APSK, 32APSK	4CPM	QPSK, 8PSK 16APSK, 32APSK	QPSK, 8PSK 16APSK, 32APSK, 64APSK
Symbol Rates	256 ksps to 500 Msps	256 ksps to 64 Msps	Up to 7.6 Msps	32 ksps to 20 Msps	32 ksps to 20Msps

Modem Interfaces

Tx Interface

Connector	F-Type 75 Ohm
Frequency range L-band	950-2400 MHz
TX level L-band	-35 dBm to +3 dBm
Frequency range S-band	2750-3000 MHz
Tx level S-band	0 dBM
BUC reference	10/50 MHz
DC supply	24V, 2.5A

Rx Interface

Connector	F-Type 75 Ohm
Frequency	950-2150 MHz
Rx level	-65 to -25 dBm
DC supply	13/18V, 0.5A

Data Interface

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

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 21 cm x D 18 cm x H 3.5 cm (W 8.27 in x D 7.09 in x H 1.38 in)
Weight	0.9 kg (1.98 lbs)
Temperature:	
Operating	0° to +50°C (32° to +122°F)
Storage	-10° to +60°C (14° to +140°F)
Humidity:	
Operating	5 - 95% non-condensing

Power Supply

Input Voltage	AC, 50Hz\220-260V and 60Hz\100-130V 24VDC (external mains adaptor)
Power Consumption	<20W