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). 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
Cellular Backhaul
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, GTP acceleration and header compression, and encryption

DIALOG







Network Configuration

Network Topology	Rx		Tx		
	DVB-S2X	DVB-S2	MF-TDMA	Mx-DMA HRC	Mx-DMA MRC
Modulation	QPSK, 8PSK, 16APSK, 32APSK, 64APSK (Annex-M)	QPSK, 8PSK, 16APSK, 32APSK	4CPM	QPSK, 8PSK 16APSK, 32APSK	QPSK, 8PSK 16APSK, 32APSK, 64APSK
Symbol Rates	256 ksps to 480 Msps	256 ksps to 64 Msps	Up to 7.6 Msps	Up to 20 Msps	Up to 20 Msps

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, BGP, NAT, 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	<20\\/

