

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
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 kpsps to 500 Msps | 256 kpsps to 64 Msps | Up to 7.6 Msps | Up to 20 Msps | Up 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, 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 | <20W |