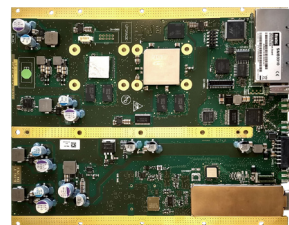


# SMB3310 Board Satellite Modem



The Dialog modem series consist 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 SMB3310 Satellite Modem Board is suitable for integration into highly compact COTM terminals for the government and defense, broadcast and mobility markets. It offers unprecedented performance in a modem board, supports a broad array of mobility capabilities and is fully equipped to operate on HTS spot beams satellites.

The SMB3310 is also available in a desktop form factor, the MDM3310.

## Markets

Mobility  
Enterprise  
Cellular backhaul  
Maritime  
Government

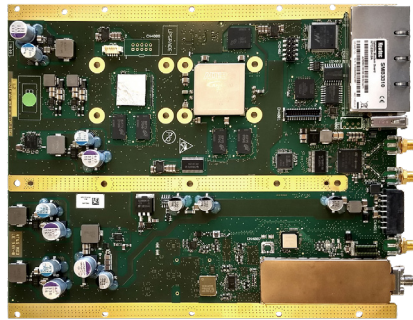
## Main Features:

- DVB-S2 (up to 45Msps) / DVB-S2X (up to 500 Msps) outbound
- Supports DVB-S2X MODCODS up to 64APSK
- Return max rates up to 40 Msps (SCPC), 20 Msps (Mx-DMA)
- Ideal for both fixed and mobility applications with throughput rates up to 100/25 Mbps
- 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                     | SCPC                               |
| Modulation       | QPSK, 8PSK, 16APSK, 32APSK, 64APSK | 4CPM           | QPSK, 8PSK, 16APSK, 32APSK | QPSK, 8PSK, 16APSK, 32APSK, 64APSK |
| Symbol Rates     | 1 Msps to 500 Msps                 | Up to 7.6 Msps | 32 ksps to 20 Msps         | 1 Msps to 64 Msps                  |

## Modem Interfaces

### Tx Interface

|                     |                   |
|---------------------|-------------------|
| Connector           | SMA 50 Ohm        |
| Frequency range     | 950-2400 MHz      |
| TX level            | -55 dBm to +5 dBm |
| BUC power supply    | 24VDC, 3.8A       |
| BUC reference       | 10 MHz            |
| BUC reference level | 3 dBm             |

### Rx Interface

|                            |                                    |
|----------------------------|------------------------------------|
| Connector                  | SMA 50 Ohm                         |
| Frequency                  | 950-2150 MHz                       |
| LNB power supply           | 13/18VDC 500mA                     |
| LNB band selection         | 13/18V or 22kHz tone, programmable |
| LNB polarization selection | 13/18 or 22 kHz tone, programmable |

### Data Interface

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

### Management Interface

RJ45 console port

## Development Kit

- CAD drawings
- Thermal design guidelines
- Mechanical design guidelines
- Electrical interface specification
- API description

## 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 18.29 cm x D 23.62cm x H 2.18 cm  
(W 7.2 in x D 9.3 in x H 0.86 in)

Weight 0.4 kg (0.88 lbs)

Temperature:

Operating -25° to +55°C (-13° to +131°F)  
(subject to adequate heatsinking)

Storage -40° to +60°C (-40° to +140°F)

Humidity:

Operating 5 - 95% non-condensing

## Power Supply

Input Voltage 24 VDC

Power Consumption <30W

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