



MCM7500 Multi-Carrier Modulator

The MCM7500 is an ST Engineering iDirect's wideband multi-carrier modulator. It is designed specifically for wideband operation on the Dialog platform. The MCM7500 is a state-of-the-art satellite modulator fully compliant with DVB-S2 and DVB-S2X standards, including Annex-M. The MCM7500 is used in Dialog Baseband Hub Modules as part of the XIF Hub.

Network Configuration

DVB-S2 / DVB-S2X

Modulation	QPSK to 256APSK
Mode	Non-Timesliced or Timesliced (Annex-M)
Carrier Bandwidth	Max 500 Msps, 525 MHz
Roll-off	5, 10, 15, 20, 25, and 35%
Pre-distortion	Equalink
Number of Carriers	1
Data Throughput	2 Gbps

Interfaces

Satcom Interfaces

Frequency	950 - 2400 MHz
Connector	N (female)
Impedance	50 Ohm
TX level	-35/+5 dBm +/- 2 dB
Reference	10/50 MHz
Return Loss	>+15dB
Mute	<-80 dBm

Data Interfaces

2 LAN ports	
10G LAN:	100/1000/10000 TX (2 X SFP+)
1G LAN:	100/1000 TX (2 X RJ45)

Management Interfaces

2 x RJ45 (HTTP/SNMP v2c)

Mechanical & Environmental

Dimensions	Height: 1RU, Width: 19", Depth: 51 cm
Weight	5.5 kg (lbs)
Operating Temperature	0°C to +50°C /+32°F to +122°F
Storage Temperature	-40° to +70°C /-40°F to +158°F
Humidity	5% to 85% non-condensing
Power Supply	90-130 & 180-260 Vac, 125 VA, 47-63 Hz or 36-76 VDC, 160 W

DIALOG