

NEWTEC SAT2200 VSAT TERMINAL



Satellite Terminals

The Newtec MDM2200 IP Satellite Modem is packaged with an easy to install and high performance Outdoor Unit (ODU). This terminal package is **highly optimized for cost, efficiency and ease of use**. The ODU consists of a high quality, easy to install antenna, an integrated transmitter and low noise block down converter (iLNB).

Straightforward Logistics

The MDM2200 terminal can be delivered fully packaged, country and distribution customized. The 75 cm antenna is offered in a single box including modem, full ODU and additional options: RF cable, Ethernet cable, documentation and Point&Play device. All antennas can also be shipped in bulk for e.g. cost optimized sea freight. With this offer, local logistics become straightforward by removing the need for local packaging.



Power Efficiency

The MDM2200 return technology is compatible with fully saturated transmitters. On top of the power efficient technology, the saturated output power gives even **higher power efficiency**.

Ease of Installation

The antenna mast-head for 75 cm and 1 m antennas is completely pre-mounted, and does not require additional assembly work. The complete ODU Portfolio is compatible with Point&Play easy-installation technology, supporting the installation of the complete terminal without any specific qualification or expensive tooling needed.

Wide Coverage and Flexibility

The antenna portfolio covers both Ku- and Ka-band for different sizes. For 75 cm and 1 m the antennas can be used both in Ku- and Ka-band. Therefore a network in Ku-band can be set up and then, at the appropriate time, transferred to Ka-band with limited extra investment needed.



	Ku			Ka	
	75 cm	1 m	1.2 m	75 cm	1 m
0.5 W	✓	✓			
0.8 W	✓	✓	✓		
2.0 W	✓	✓	✓	✓	✓
2.0 W quad	✓	✓			

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Key Features

- High integration level
- Independent TX & RX frequencies over full band
- Low Noise Temperature LNB
- Very low power consumption
- Suitable for all weather situations
- Multi-feed clamp option or Quad iLNB for additional DTH reception

Performance

Band	Ku-band						Ka-band				
Antenna	75 cm			1 m			1,2 m		75 cm	1 m	
iLNB	500 mW	800 mW	2 W	500 mW	800 mW	2 W	800 mW	2 W	2 W	2 W	
Tx											
EIRP	36 dBW	38 dBW	42 dBW	38 dBW	40 dBW	45 dBW	42 dBW	46 dBW	48 dBW	50 dBW	
Cross Poll (-1 dB Contour)	> 23 dB			> 23 dB			> 25 dB		> 23 dB	> 23 dB	
Rx											
G/T clear weather	16 dB/K			18 dB/K			20 dB/K		18.7 dB/K	21.5 dB/K	
iLNB Gain	57 to 70 dB								57 to 70 dB		

Coverage

- Ku-band
 - TX Frequency: 13.75 to 14.5 GHz
 - RX Frequency: 10.7 to 12.75 GHz
- Ka-band
 - TX Frequency: 29.4 to 30 GHz
 - RX Frequency: 19.56 to 20.2 GHz

iLNB Interface

- 2 F-connectors (75 Ohm)

Quad iLNB

- 5 F-connectors (75 Ohm)

Mechanical & Environment

- Operating temperature: -30°C to 60°C
- Humidity: 0% - 100%
- Solar Radiation: 1120 W/m² maximum
- Rain: Up to 40 mm/h
- Wind: Up to 180 km/h

Standards

- RoHS compliance
- CE compliance
- WEEE

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The details contained in this document, including product and feature specifications, are subject to change without notice and shall not bind Newtec in any way.



Newtec

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