



MDM3100/3300 'Rugged'

Outdoor Modem

- IP65 sealed
- Optional antenna pointing aid (MPAD2)
- High performance service rates (upto 45/5 Mbps)
- Receive multicast support upto 80 Mbps
- 4 Gigabit Ethernet LAN ports
- DVB-S2 ACM Forward
- 4CPM MF-TDMA adaptive return link
- Compatible with standard BUC and LNB
- Embedded TCP acceleration and encryption
- Multi-level quality of service
- Versatile IP routing and addressing
- Low jitter for real-time applications
- DNS cache/relay and HTTP pre-fetching
- Support of IPv4 and IPv6

The MDM3100 'Rugged' is the latest in the ODU range from Sematron and is a complete IP65 sealed solution that incorporates the industry leading MPAD2 pointing system for all Sematron IP satellite antennas.

The MDM3100 'Rugged' is a two-way, high throughput modem supporting a wide range of IP services, for example internet/intranet access, VoIP, enterprise connectivity and multicasting services, with the advantage of outdoor operation.

The IP satellite modem is available with unique MPAD2 easy-installation technology, supporting the installation of the complete terminal without any specific qualification or expensive tooling needed.

With built-in GPS, inclinometer and electronic compass, the MPAD2 provides correct satellite elevation, azimuth and identification, and facilitates pointing with audio feedback.

After positioning, the integrated certification assures correct installation by giving instant link quality approval. It guarantees that each terminal works at maximum efficiency without any interference risk.

Its ease of installation and high performance modulation techniques enable network operators to offer bandwidth intensive IP broadband services in a cost-effective way. It is perfectly suited for small and medium enterprises (SME), as well as large enterprises or organisations.





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Outdoor Modem

Performance

- Max RX Rate TCP: upto 45 Mbps
- Max RX Rate UDP: upto 40 Mbps (unicast) / 80 Mbps (multicast)
- Max TX Rate TCP: upto 5 Mbps
- Max TX Rate UDP: upto 5 Mbps

Modem Interfaces

RF OUTPUT (BUC INTERFACE)

- Connector: TNC
- Impedance: 75 Ohm
- Frequency: 950 – 1850 MHz
- TX Level: -55 to +5 dBm
- BUC Power Supply: 24 VDC, 3.5A
- Ref signal: 10 MHz

RF INPUT (LNB INTERFACE)

- Connector: TNC
- Impedance: 75 Ohm
- Frequency: 950 – 2150 MHz
- RX Level: -65 to -25 dBm
- LNB power supply: 13/18 VDC, 500 mA
- Ref signal: 10 MHz (optional)

LOCAL AREA CONNECTION

- 4 x GbE (RJ-45)

Mechanical and Environment

- Housing (W x H x D): 370 x 200 x 100mm
- Weight: 3.6kg
- IP65 sealed
- Operating temperature: 0 to 50°C
- Humidity: 5% - 95% non-condensing
- Storage temperature: -30 to 60°C
- DC power supply: 24 V
- Mains adaptor input: mains AC, 50 Hz\100/240 V
- Mains power consumption: <120Watt (depends on BUC type)
- Modem power consumption: <20Watt

IP Features

Protocols: UDP, IPv4 & IPv6, ICMP, IGMPv2, TCP, ARP, DHCP, DNS, DiffServ Marking

Management Interfaces

- Web GUI
- Over-the-air software and configuration updates
- Over-the-air monitoring, self-test and diagnostics