

Intellian IM3

INTELLIGENT MEDIATOR

All-in-One Device to manage Multi-band Antennas



FEATURES

VSAT ANTENNA MEDIATION

The IM3 intelligent mediator enables a smart approach to blockage mitigation for up to three antennas can be managed connection resiliency, antenna diversity and failure reduction. the intelligent mediator allows the antenna to support mid-pass handover smartly.

MEO SERVICE SUPPORT

The IM3 Intelligent Mediator is a perfect solution for MEO service. It supports Break-Before-Make and Make-Before-Break handover with no loss of data and no dropped calls. Constant antenna role changes makes seamless communication during MEO operation.

MULTI-BANDS AND MULTI-MODES OPERATIONS

The IM3 Intelligent Mediator provides mediation and connectivity for up to 3 antennas and up to 4 modems. This enables planned and unplanned management of the antennas and modems. Providing compatibility with MEO satellite service providers, enabling smart handover and sophisticated MEO/ GEO hybrid operation. Dual Data Centers can be supported using the Intelligent Mediator to provide onboard system resiliency.

INTELLIAN NETWORK DEVICE MONITORING

Intellian LAN connection enables integrated monitoring and control of VSAT antenna systems from the Aptus Web for Mediator. Simplified IP network setup allows easy and direct access to the connected VSAT systems. Also, Aptus web utilizes a smart Graphical User Interface(GUI) for easy communication and to look at the current antenna status.

SUPPORT VARIOUS FREQUENCY BANDS

The IM3 Intelligent Mediator can be connected to 4 modems regardless of frequency band works on. IM3 is available to any commercial band (C-/Ku-/Ka-band) including multi-band support modem. It provides a very simple solution to link any antenna to any modem installed on the ship.

IM3 All-in-One Device to manage Multi-band Antennas

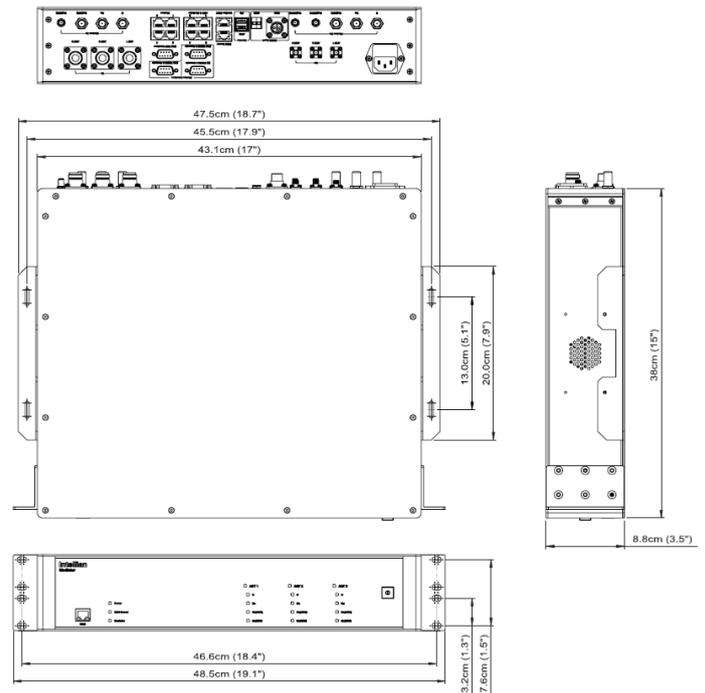
TECHNICAL SPECIFICATIONS

Size (WxDxH)	431mm X 381mm X 89mm (17" X 15" X 3.5")
Weight	4.5Kg (9.9 lbs)
LED Indicator	<ul style="list-style-type: none"> • 3LEDs for Power, Mediator and M&C Server • 3LEDs for Antenna 1, Antenna 2 and Antenna 3 • 12LEDs for Antenna bands
Ethernet Port	<p>Front: RJ45, TCP/IP Support Web & M&C port</p> <p>Rear: Support Web & M&C port, RJ45 (8-Ports)</p>
USB Port	<p>Upper: i-ARM Connection, Main Connection, Logs Download & Update</p> <p>Lower: PC or Management Device (57600bps)</p>
Gyrocompass Interface	NMEA2000 / NMEA0183
Modem Interface	RS-232C / I/O ports / Ethernet
BUC Interface	RS232 / I/O ports
PC Serial Interface	RS232 (19200bps, 8, N, 1)
Channel	<p>TX: 4X3 Matrix Switch</p> <p>RX: 3X5 Matrix Switch</p>
Connectors	<p>50ohm: SMA-Type(Female) N-Type(Female)</p> <p>75ohm: F-Type(Female)</p>
Frequency Range	950MHz ~ 2150MHz
Power Source	100 ~ 240 V AC, 50 ~ 60Hz, 1A
Power Consumption	20W Typ.

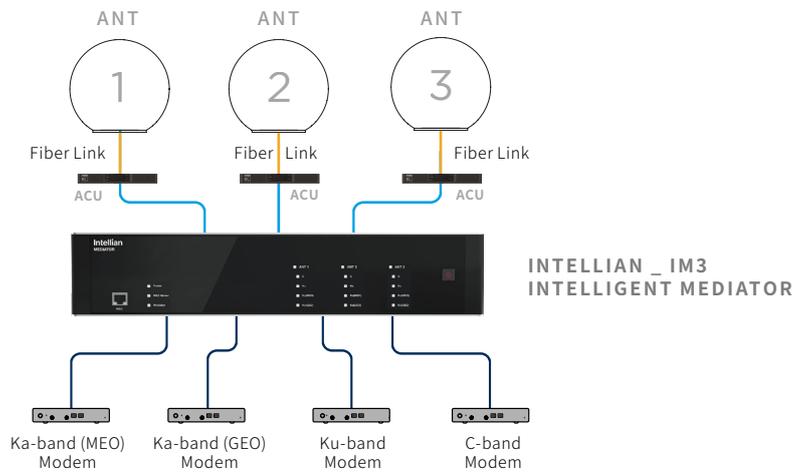
KEY FEATURE

- RF Switching Between Multiple Modems
- Mediation for Redundant Antenna Systems
- Smart Handover for NGSO Satellite Tracking
- MEO/GEO Hybrid Operation

SYSTEM DIMENSION



SYSTEM DIAGRAM



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