

# ***MWT 1100***

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**SATCOM On-The-Move (OTM)  
Multi Waveform Terminal**

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## Meet the MWT1100

The MWT 1100 is Next generation On-the-Move (OTM) SATCOM Multiple Waveform Terminal powered by AYECKa's **RFModem**<sup>®</sup> technology.

The MWT 1100 Provides bi-directional voice and data communication utilizing L-Band or Ku or Ka.

### Product Highlights

- Multiple Waveform Terminal for Defense applications
- Hardened Modem for mobility and airborne
- L-band, Ku-band or Ka-band RF interfaces
- Supports high speed and maneuver platforms
- Supports standard waveforms such as DVBS2X and special waveforms
- Enable integration of user waveform
- Provides RSSI over UDP for Antenna pointing
- Integrated GIGE switch for easy integration with additional equipment (e.g. antenna controller)

### Product Applications

**SATCOM – On The Move**

**HLS Personal communication**

**Airborne communication**

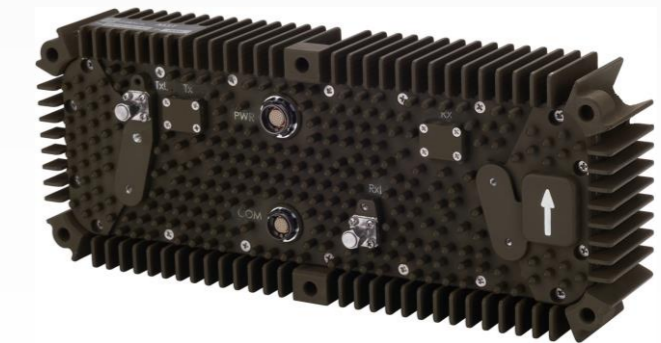
**Maritime communication**

**Connected Cars, Automotive IoT**

**Assets tracking**

**IoT, Agro IoT**

**Gas & Oil**



# MWT 1100 Product Specifications

## Standards supported:

<b>Outbound</b>	DVB-S2/S2X and proprietary waveforms
<b>Inbound</b>	F-SIM, DVBS2X and proprietary waveforms
<b>Modulation Outbound</b>	QPSK, 8PSK, 16APSK, 32APSK (64APSK, 128APSK, 256APSK if link budget allows)
<b>Modulation Inbound</b>	BPSK, QPSK, 8PSK, 16APSK, 32APSK
<b>Channel Rate Outbound</b>	Up to 60 Msps and 80Mbps sustainable user data
<b>Channel Rate inbound</b>	2.5, 5, 10 MHz for FSIM, 300Ksps to 30Mbps for DVBS2X
<b>Inbound Channel bandwidth</b>	Configurable
<b>On The Move (OTM) support</b>	RSSI & SNR Indication to Antenna controller
<b>Transmit Frequency</b>	L-band: 950-2150MHz, Ku: 13.75 – 14.5 GHz, Ka: 27.5 - 30GHz
<b>Receive Frequency</b>	L-band: 950-2150MHz, Ku: 10.7 – 12.75 GHz, Ka: 17.3 - 20.2 GHz
<b>Connection to IDU</b>	Milspec connectors
<b>Tx Output power</b>	L-band: max 0dBm to -30dBm
<b>Ethernet Interface</b>	100BASE-T
<b>Encapsulation</b>	Rx: MPE/GSE/Proprietary TX: RLE/GSE/Proprietary
<b>IP Routing</b>	Multicast (IGMP) and Unicast, Static and Dynamic
<b>Networking</b>	DHCP, NAT/PAT, SSDP, Vlan, Encryption
<b>IP Routing</b>	Multicast and Unicast, Static and Dynamic
<b>ODU Weight</b>	~1kg
<b>Form factor</b>	285x114x59 mm (LxWxH)
<b>Management</b>	Web GUI, REST

<b>Operating Temp.</b>	-40° to 55° C
<b>Rain</b>	0% to 100% non-condensing
<b>Humidity</b>	<100mm/Hr
<b>Certificates</b>	CE, FCC Part 15, IP65
<b>Testing</b>	Power up BIT and continuous (on line) BIT (CBIT)
<b>Maintenance</b>	Software, Firmware and boot loader are Field upgradable using OTA protocol (Flute)
<b>Environmental</b>	MIL-STD-810
<b>Input power range</b>	22-32 MIL-STD-704D
<b>EMC</b>	MIL-STD-461F

