

AMT 1100

Micro SATCOM On-The-Move (OTM) Terminal



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Meet the AMT1100

The AMT 1100 is a Next generation On-the-Move (OTM) Micro SATCOM Terminal (MST) powered by AYECKA's RFSModem® technology.

The terminal includes DVB-S2/S2X with ULSNR extension modem and a Phase Array antenna with fully automated pointing .

Provides bi-directional voice and data communication in Ku .

Overview

- Next generation On-the-Move (OTM) Micro SATCOM Terminal (MST). AMT
- 1100 Powered by AYECKA's **RFSModem**® technology.
- Provides bi-directional voice and data communication utilizing Ku frequency.
- Complies with the latest SATCOM Standards.
- Comprises advanced Ku band phased array antennas.
- Operates in harsh conditions, and wide temperature range.
- Advanced spread spectrum technology.
- Integrated high performance Inertial Navigation System (INS) - fully automated pointing.
- Friendly interface and ease of use.
- Standard Ethernet interface to Networks or computers.
- Compatible to Battery operation 8-18VDC voltage range.
- Simple & flexible mechanical mounting. Very
- small and lightweight.

Product Applications

SATCOM – On The Move

HLS Personal communication

Airborne communication

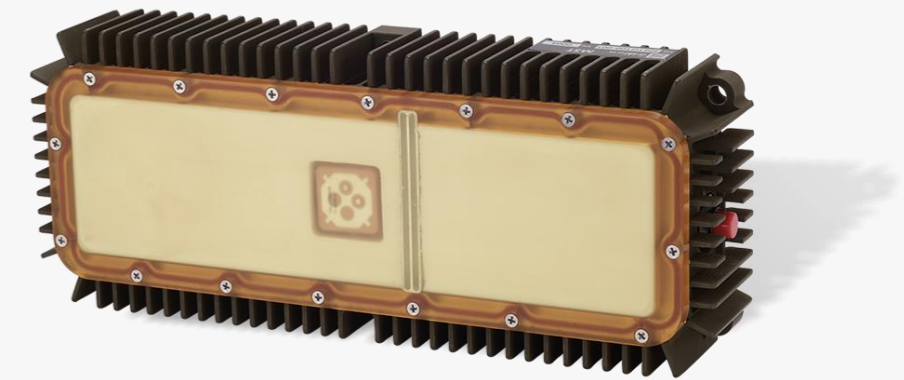
Maritime communication

Connected Cars, Automotive IoT

Assets tracking

IoT, Agro IoT

Gas & Oil



AMT 1100 Product Specifications

Standards supported:

Outbound	DVB-S2/S2X with ULSNR extension	Management	Web GUI, REST
Inbound	F-SIM, ESSA	Maintenance	Software, Firmware and boot loader are Field upgradable using OTA protocol (Flute)
Modulation Outbound	QPSK, BPSK	Operating Temp.	-40° to 60° C
Modulation Inbound	BPSK FEC rate 1/3 as per FSIM standard with carrier spreading	Humidity	<100mm/Hr
Channel Rate Outbound	Limited by Link budget	Rain	0% to 100% non-condensing
Channel Rate inbound	Typically few Kbps, pending link budget and availability.	Input power range	8 – 18VDC
Inbound Channel bandwidth	2.5, 5, 10 MHz	Ethernet Interface	100BASE-T, 100Mbps
On The Move (OTM) support	Integrated, fully automated pointing	Certificates	CE, FCC, IP67
Antenna type	Electronically steering antenna		
Functionality	On the move, Airborne, Mobility		
Transmit Frequency	Ku: 13.75 – 14.5 GHz		
Receive Frequency	Ku: 10.7 – 12.75 GHz		
Connection to IDU	Milspec connectors		
Tx Output Power	Ku: 2.5W		
EIRP	Ku: better than 20dBW @boresight		
G/T	Ku: better than -6dB/k @boresight		
Encapsulation	Rx: MPE/GSE TX: RLE		
IP Routing	Multicast and Unicast, Static and Dynamic		
Networking	DHCP, NAT/PAT, SSDP, Vlan, Encryption		
ODU Weight	~1.7kg		
Form factor			

*Pending link budget, spreading factor and other operational parameters

