

MPT1000 Ku-Band Satcom Terminal Mobile Patrol



- Ultra lightweight
- Hardened IP modem
- Compact and robust
- 40W Ku-Band
- Auto-acquire / pointing ACU
- Snow shield
- Single button deploy
- Backpack carry cases
- Inclined orbit tracking option



A cutting-edge satellite communications terminal based on MOTS (military of the shelf) product. The Mobile Patrol MPT1000 offers a state-of-the-art 1m multiband VSAT which is transportable, lightweight and robust. The terminal is aimed at the professional and military operator working in Ku-Band.

The MPT1000 consists of the reflector, feed assembly / BUC and the electronics base unit. Amongst the equipment housed in the base unit are a beacon receiver, GPS receiver, compass and inclinometer. These allow completely automatic satellite acquisition, with the relevant satellite data held in an internal database.

The terminal can be assembled in less than 15 minutes by a single operator, with no tools required. A single button press on the interactive screen or the base unit initiates acquisition of the satellite, with a further button press required to start the data transmission.



The MPT1000 sets new standards for lightweight flyaway terminals, providing a truly versatile solution for voice, video, data and IP operation in harsh outdoor environments. It also operates from mains supply: 24VDC or 48VDC.

OPTIONS

- No Tools approach. All sub-assemblies can be assembled without tools in harsh conditions, even with gloved hands.
- Fast deployment. Typical acquisition less than 15 minutes from in the bag to on the satellite.
- Single button auto-acquire. Once set up the terminal can be activated to search for a pre-determined satellite with one simple press of the 'DEPLOY' button (no need for a ruggedised tablet, if preferred).

MPT1000 Ku-Band Satcom Terminal

Mobile Patrol

SPECIFICATION

Antenna construction	Carbon fibre
Dish diameter	1.0 metre
System weight	Under 50kg (unpackaged)
System composition	3 cases containing: antenna, base unit, BUC/LNB, IP modem, M&C, snowshield, ground and earthing spike and cables
Satellite acquisition	Auto acquisition via a single button press and M&C (built-in DVB-S2, beacon Rx, GPS, compass and inclinometer)
System monitoring	Built-in spectrum analyser, beacon level, signal strength meter
Fault monitoring and logging	Antenna, BUC, modem, beacon receiver and GPS
Set-up time	<15 minutes
MTTR	30 minutes (for line 1 spares)
Transportability	Easily transported, meets IATA baggage limits
MMI	Via touchscreen
Modem	Hughes HX200

Cability

Frequency (Rx)	10.7 to 12.75 GHz
(Tx)	13.75 to 14.5 GHz
BUC power	40W (max)
BUC (int 10 MHz)	3x10 ⁻⁷
Antenna size	1m
EIRP (dBW)	57.3
Antenna Tx gain (dB)	41.9
G/T (dB/K)	17.7
Azimuth range	+/- 220°
Elevation range	5° to 90°
POL range	+/- 95°
Tx Rx isolation	85dB (with TRF)
Cross POL rejection	35dB on axis
Polarisation	Linear, Co-POL

Climate ODU

Temp range (storage)	-40°C to +70°C
Temp range (operational)	-30°C to +55°C
Ingress (storage)	IP65
Ingress rating (operational)	IP65
Relative humidity	95%
Wind speed (operational)	22.3m/s (50mph)
Altitude (operational)	4200m
Power voltage (Vac) Option 1	90 to 253
Option 2	48VDC
Option 3	24VDC
Power (W)	750 (BUC dependant)

Compliance

R & TTE directive	1999/5/EC
LV directive	73/23/EEC
Markings	CE