

A1200 Triband Parabolic Manpack



Manpack Satellite Terminal

A1200 Parabolic Manpack is a custom-built Triband SATCOM terminal with an eye in providing high reliability, superior innovation and choice for users. This terminal is highly suited for operations in harsh environmental conditions.

The terminal is suited for use in places where there is no fixed communications infrastructure and where access by vehicles is limited. The system is man-portable and can be deployed quickly.

The equipment includes BUC, LNB, Modem, Power Supply, M&C, GPS and battery. Given its innovative design, the terminal is compact and light weight without reducing any of its functionality.

Deployment of the Manpack terminal is easy, with minimal assembly of separate parts and the antenna alignment is also easily accomplished. Full deployment can be completed in less than 10 minutes which is a rapid deployment in hostile environment.

Key Features

- High performance parabolic antenna
- 10min full deployment
- Swappable RF payload
- Compact and Rugged
- Manual or Motorised with Auto Pointing Options
- Optimal size, weight and power
- Built-in GPS receiver
- Dual Axis Positioner

Technical Specifications

General Specifications

| | |
|---------------------|---|
| Configuration | Manpack terminal (Flyaway) Motorized / Manual |
| Antenna Size | 1.2m |
| Standard Regulation | ITU |

RF Specifications

| Operating Band | Ka-Band | Ku-Band | X-Band |
|---------------------------|--|--|--|
| Frequency | 29 to 31 GHz (Tx) 19.2 to 20.2 GHz (Rx) | 13.75 to 14.5 GHz (Tx) 10.7 to 12.75 GHz (Rx) | 7.9 to 8.4 GHz (Tx) 7.25 to 7.75 GHz (Rx) |
| Gain | 48.9 @ 30 GHz (Tx) 45 @ 20.2 GHz (Rx) | 42.1 @ 14.5 GHz (Tx) 41 @ 12.5 GHz (Rx) | 37.6 @ 8.15 GHz (Tx) 36.4 @ 7.5 GHz (Rx) |
| Typical System G/T @20deg | 21.1 dB/K min. | 18.4 dB/K min. | 15.1 dB/K min. |
| Feed and Polarisation | 2-port Circular | 2-port Linear | 2-port Circular |
| Cross Pol / Axial Ratio | 1.5 dB | 35 dB | 1 dB |
| EIRP Capability | 59dBW min (12W) | 54dBW min (16W) | 50.3dBW min (20W) |

Mechanical Specifications

| | |
|--|--|
| Tracking mode | Beacon/DVB carrier |
| Travel Range Azimuth Elevation Polarization | ±200° 0° ~ 90° ±90° |
| Auto acquisition time | ≤ 3 min |
| Carry Case | 2 Field Bag (option for single carry case) |
| Weight | 24kg |

Modem Case (Option)

| | |
|-------|---------------|
| Modem | iDirect 950MP |
|-------|---------------|

Electrical Specifications

| | |
|----------------------------|-----------|
| System Voltage / Frequency | 24-48 VDC |
| Power Consumption | 300W |

Environmental Specifications

| | |
|--------------------------|----------------------|
| Operational Temperature | -20°C to 55°C |
| Humidity | 100% |
| Protection | IP65 |
| Wind Loading Operational | < 11m/s with ballast |
| Wind Loading Survival | < 18m/s with ballast |

