



TP100Ku

1.0M Ku-Band
Quick Deploy Terminal

The TP100Ku is the latest in the ultra-fast, quick deployable antenna systems from Holkirk Communications. It is ideal for store and forward, breaking news, occasional or permanent satellite communication.

Flexibility - The unique design of the TP100Ku will not only allow for operation on traditional Ku-Band satellites but also allow access to multiple Ka-Band payloads, increasing the number of options to get your important data uploaded.

Robust - The design includes 1.0M high gain carbon fibre reflector, 'no-tools' assembly, folding feed arm assembly, quick deploy tri-pod, inclinometer and fine adjust on Azimuth and Elevation. The tri-pod has detachable sand feet to allow for ground anchors to be fitted ensuring maximum stability for reliable operation.

The lightweight, high quality and reliable construction in conjunction with high gain 1M carbon reflector will ensure excellent performance even at the extremities of satellite footprint.

Ease of Pointing - The TP100Ku has been designed to assist in the pointing to any satellite. It has an integrated GPS, electronic compass and inclinometer that will give the user a target Azimuth/ Elevation and Polarisation position and actual read-out for the true position of the axis.

Clever Power Options - The TP100 in conjunction with the ruggedized outdoor modem (ODU) can be powered from a variety sources, either from a 240V via a PSU, direct from a 12V vehicle supply or from standard camera batteries (Vee-lock, PAG etc).

- 1.0M Segmented Carbon Fibre Reflector
- Ultra-Portable
- No-Tools Assembly
- MPAD Manual Point Aid (very easy to line up)
- Integrated GPS & Electronic Compass
- 6W, 8W, 16W and 55W RF power options
- Optional Dual Band (Ka & Ku)
- Two Soft Cases (under 23kg) for Complete System
- 240VAC / Battery / 12VDC Power Options



Options

- Sand Feet
- ODU Modem
- MPAD2 Pointing Aid



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Specification

Receive (GHz)	10.7 -12.75GHz
Transmit (GHz)	13.75-14.5GHz

Mid-band Gain

Receive	40.1 dBi
Transmit	41.8 dBi

Polarisation	Cross or Co-POL
BUC Power Options	NJRC 6W Comtech 8W CPI 16W Mission 55W

Azimuth Range Manual	Coarse:	$\pm 360^\circ$
	Fine:	$\pm 10^\circ$

Elevation Range	Coarse:	5-90°
	Fine:	$\pm 10^\circ$

Polarisation	$\pm 90^\circ$
Ambient Temperature Operational:	-20°C to +50°C
Solar Radiation	1,200 W/m ²
Wind Speed (with ballast or anchors)	20m/s (45 mph)
Operating Humidity	100% condensing
Rainfall Maximum	100 mm/h (4 in/h) excluding link budget effects
Altitude	Up to 3,000 m (9,850 ft)
Survival	Up to 10,000 m (32,800 ft)

Case 1	Antenna, Tripod 75x51x46cm (15kg)
Case 2	Feed Arm & Transciever 75x47x38cm (15kg)