

TP100 Ku IP Flyaway - Internet

IP uplink terminal for internet connectivity

The INTERNET variant of the TP100 is the latest in the ultra-fast, quick deployable satellite antenna systems from Holkirk Communications and has been designed to form the heart of an IP network injection point from remote locations.



With integrated waterproof IP modem and WiFi router, the TP100 Internet is truly your office in the field.

Power Options

To establish a 1Mb/5Mb internet link the TP100 Internet can be fitted with either a 6W or 8W BUC. Both options can be powered directly from the modem and are capable of remote connection via the 12VDC battery system or any standard vehicle 12V outlet.

The TP100 Internet in conjunction with the ruggedised 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).

Robust

The design includes a 5 segment, 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

Once the antenna has been assembled (typically under 5 minutes) the satellite can be found by using our MPAD2 hand held device which will assist in the pointing to any satellite. The MPAD2 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 all the axis. The MPAD2 has a built-in signal strength meter to allow accurate peaking to the satellite.

IP Sub-Systems

The TP100 can be offered with a ruggedised IP modem and ruggedised WiFi router. The IP modem will be attached to the rear of the antenna thus reducing the length of L-Band cables. There is space and weight budget to include the IP modem within the 2 off IATA compliant cases. The ruggedised WiFi router has the ability to create a WiFi hotspot or use the WiFi as a separate WAN interface, it also has two GSM modem radio's to give 3G/4G WAN capability. There is space and weight budget to include the IP modem within the 2 off IATA compliant cases.

Specification

Case 1	75cmx 47cm x 37cm	(23kg – Depending on options)
Case 2	75cmx 47cm x 37cm	(23kg – Depending on options)
Battery Life	30mins (per battery)	
WAN Interface	LTE/3G modem (with redundant SIM slot)	
Satellite IP interface	WiFi (optional access point)	
LAN Interface	2 x FE	
Antenna Connections	2 x GSM antenna, 1 x SMA WiFi	
Mid-Band	Gain	
	Receive	40.1 dBi
	Transmit	41.8 dBi
BUC Power Options	6W (NJRC) 8W (Comtech)	
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 3,000m (9,850 ft)	
Survival	Up to 10,000m (32,800 ft)	

- 1.m 5 segment carbon fibre reflector
- Ultra-portable, no tools assembly
- MPAD 'Manual Pointing Aid'
- Can be powered by batteries
- 6W and 8W RF power options
- Two soft cases (under 23kg) for complete system
- IATA compliant cases