



TP100 Ku IP Flyaway - Broadcast

IP Uplink Terminal for the Broadcast Industry

The BROADCAST variant of the TP100 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 and can form the heart of a IP network injection point from remote locations. The system has been designed to interoperate with all the current 3G/4G bonding video encoders, giving excellent resilience to the modern IP video link.

RF Power Options - for high data-rate broadcasting the TP100 Broadcast can be fitted with either a 16W or 55W BUC.

Robust - The design includes a 5 segment, 1m 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.

- 1m, 5 segment carbon fibre reflector
- Ultra-portable, no-tools assembly
- MPAD Manual Point Aid (very easy to line up)
- Integrated GPS and electronic compass
- 16W and 55W RF power options
- Optional dual band (Ka/Ku)
- Two soft cases (under 23kg) for complete system
- Optional - IP65 rated modem
- Optional - IP65 rated WiFi and GSM router
- IATA compliant cases

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 hot-spot 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.

Flexibility - The unique design of the TP100 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 broadcast on the air (this will be achieved with a separate feed arm in a separate flight case).

Power Options - The Broadcast TP100 is powered from a IP65 power distribution unit. This unit will supply power to the modem, Wifi Router and BUC, reducing the number of separate power supplies required, thus reducing weight.



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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 POL
BUC Power Options	CPI 16W Mission 55W
Azimuth Range Manual Coarse:	±360°
Fine:	±10°
Elevation Range Coarse:	5-90°
Fine:	±10°
Polarisation	±90°
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	75cmx 47cm x 37cm (15kg – Depending on options)
Case 2	75cmx 47cm x 37cm (15kg – Depending on options)

