

The TP120 multi-band antenna system from Holkirk is renowned for its compact size, lightweight and powerful performance which has been designed to excel for today's demanding satellite applications.



**The Eutelsat characterized Holkirk TP120 has been designed to meet MIL-STD 810g and excel in today's challenging satcom world.**

**With a simple no-tools approach to assembly, high quality materials and designed to enable long reliable lifetime operation and user friendly but powerful antenna control unit make the TP120 the choice for many users around the world.**

**NOW fully characterized for use across the Eutelsat fleet**

### Ease of Use

The user-friendly modular design of the TP120 antenna allows for simple, fast and accurate location and acquisition of the satellite, either as a manually controlled mount or as a fully auto pointing and motorised system, there are no tools required to assemble the TP120.

### Versatile

The novel light weight and sturdy tripod design includes a truly versatile HPA cradle which can accommodate a wide range of third party HPA's up to 400W in C, X, Ku and Ka-bands, neatly doing away with the long lengths of fragile flexible waveguide normally associated with flyaway systems.

### Revolutionary

The main reflector is manufactured from high quality carbon fibre and is supplied in six easily assembled petals that employ a revolutionary spherical dowel locking mechanism to ensure perfect alignment.

### Control

The TP120 can be equipped with the Holkirk AIM MOBILE for seamless operation in Tri-Band operation with auto-sensing frequency band, 30 satellite database, BUC/TWT integrated M&C and graphical user interface.

## Applications

**DSNG / Broadcast applications**

**Tri-Band secure communications**

**Non-GEO orbit tracking**

**Satcom as a Managed Service**

- Eutelsat Characterized
- Quick deploy assembly (under 5 minutes)
- No assembly tools required
- High gain carbon fibre reflector
- BUC/TWT integration
- Light weight IATA compliant
- Compact and robust
- Full auto-pointing options AIM MOBILE
- Manual Pointing AIM ASSIST
- Inclined non-GEO tracking
- Optional ruggedised electronics
- Holkirk QC Quick-Connect system
- Designed to meet MIL-STD 810g
- Optional paint (NATO Green)

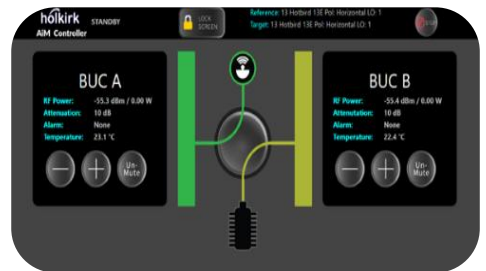


# TP120

## 1.2M Terminal in C, X, Ku and Ka-Band

### Specifications

Antenna diameter:		120 cm
Geometry:		Single offset
Reflector material:		Carbon fibre
Azimuth range:	Course	+/- 360°
	Fine (motorised)	+/- 90°
Elevation range:		5 to 90°
Polarisation range:		+/- 95°
Temperature		
	operational:	-21°C to +55°C
	(Optional – BUC dependant)	-30°C to +60°C
	storage	-40°C to +70°C
Wind speed	operational:	40mph / 68kph
	(gusting)	45mph / 72kph
	survival:	60mph (97kph)
Power consumption:	Idle	10W
(not including BUC power)	Pointing	120W
Antenna Radiation Pattern:		ITU-RD-580-5
Operating Humidity		100% condensing
Rainfall Maximum		100 mm/h (4 in/h)
Altitude		Up to 3,000 m (9,850 ft)
	Survival	Up to 10,000 m (32,800 ft)



	C-Band	X-Band	Ku-Band	Ka-Band
<b>Receive</b>				
Polarisation:	Circular	Circular	Linear	Circular
Frequency band:	3.4 - 4.2GHz	7.25 – 7.750GHz	10.70 – 12.75GHz	17.7 – 22.2GHz
RX Gain:	32.3dBi	37.528 dBi	42.28 dBi	45.8 dBi
<b>Transmit</b>				
Polarisation:	Circular	Circular	Linear	Circular
Frequency band:	5.85 - 6.425GHz	7.90 – 8.40GHz	13.75 – 14.5 GHz	27.5 – 31GHz
Gain:	35.0dBi	37.88dBi	43.71dBi	49.16dBi
Cross Polarisation:	-30dB	-30dB	-30dB	-35dB