



Euclid

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EU-10 Mini Satcom Terminal

The mini Satellite Communication (SATCOM) terminal positioner is a small dimensioned and light weight dual axis positioner, uniquely designed for airborne / vehicular / portable "on the move" SATCOM terminals.

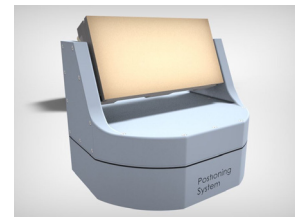
The mini SATCOM terminal positioner hosts client's SATCOM active RF chain (panel antenna, BUC, LNB) and modem, while providing the dual axis motion system and tracking control, including: advanced motion drivers, miniature high quality DC brushless motors, sophisticated motion transmission mechanism, Logic & Tracking controller installed with Euclid's proprietary SW and onboard navigation sensors (GPS, magnetometer, accelerometer and gyro). The mini SATCOM terminal positioner is a revolutionary concept, combining Euclid's specialty in the field of antenna positioning and tracking control along with client's SATCOM RF specialty, to bring out the best overall system's specification and performance.



KEY FEATURES

- > EII: Euclid Intuitive Integration for easy
- > Dual axis Positioner
- > Ethernet and Serial communication
- > Qualifying for harsh environment
- > 360° Continuous azimuth travel
- > Supplied with Euclid's MCU Unit

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Specifications

Parameter	System Performance
RF pass-through	Dual channel RF rotary joint (Inner channel: DC - 18GHz, Outer channel: DC - 4GHz)
Power & signals pass-through	Via Slip-rings (golden rings)
Axis travel (Azimuth / Elevation)	360° continuous / (-3)° - 93° (hard stops)
Rotating speed	AZ: Up to 120°/sec ; EL: Up to 90°/sec
Rotating acceleration	Up to 3 rad/sec ²
Axis backlash	~ 0.2°
Encoder resolution	0.002°
Communication	Ethernet 100BaseT (Euclid's proprietary SW protocol)
Auto-tracking	Signal Strength tracking combined with GPS pointing and inertial navigation sensor's compensation
Onboard navigation	GPS , Gyro, Magnetometer, Accelerometer
Power consumption	8W (12W @ peak)
Weight	2 Kg (w/o antenna, BUC, LNB, modem)
Dimensions	295 x 280 x 212mm (LxWxH, w/o antenna)
Input voltage	24Vdc (18 - 36V)
Temperature	Operating: (-30) - 60°C (Storage: (-40) - 70°C)
Internal protection	Over & under voltage, short circuit, reverse polarity, power surge, over load, over temp.