



# Euclid

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## EU-25 Explorer XTR

The EXPLORER Mini-GDT is a dual axis mini ground antenna terminal, capable of positioning a directional Data-Link antenna in both Azimuth and Elevation axes.

The XTR configuration has high torque delivery capability.

The EXPLORER GDT is a classic Mini-GDT system, lightweight, simply deployed and provides a sufficient gain with its S-Band or C-Band directional antenna to support Data-Link range of over 100km, even with a low power radio.

The EXPLORER Mini-GDT is equipped with Euclid built-in Tracking & Logic Controller (MCU) to provide progressive control modes and target's tracking algorithms, such as: RSSI tracking, GPS pointing, Search mode, Scan mode and more.

Customer's Data-Link module is customized into a fully integrated RF-Box, installed next to Euclid Electronic Unit Box (EU-Box) on the rotating section of the GDT.



## 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

# EU-25 Explorer XTR



## Specifications

Parameter	EU-25 Explorer XTR
Directional Antenna XT conf.	<b>S-Band:</b> 23dBi (typ.) parabolic grid; <b>C-Band:</b> 27dBi (typ.) flat panel
Directional Antenna XTR conf.	<b>S-Band:</b> 26dBi (typ.) parabolic grid ; <b>C-Band:</b> 28-29dBi (typ.) dish antenna
Omni Antenna	2dBi dipole, 6dBi is optional
GDT Weight	25Kg (w/o tripod)
General Dimensions	95 x 90 x 50cm (H x W x D, w/o tripod)
Tripod	Euclid <b>3rd Element</b> heavy duty tripod (payload up to 50kg, Self-weight: 6.8kg, Max height: 140cm)
Power	<u>Input voltage:</u> 28Vdc ( 16 – 50V) ; <u>Power consumption:</u> 200W nominal (< 300W peak)
Azimuth Travel	360° continuous
Elevation Travel	-5° to 50°
Elevation Axis Limits	Software limits, electrical limits and hard stops
Speeds	<u>Azimuth:</u> up to 40°/sec ; <u>Elevation:</u> up to 20°/sec
Software Interface	TCP/UDP Ethernet (Euclid MCU protocol)
Tracking / Pointing	Dual Axis <b>RSSI tracking</b> (based on DL RSSI input from host) / <b>GPS pointing</b> (based on target's location input from host)
Search Modes	Automatic <b>SEARCH</b> mode for target's re-acquisition upon track loss; sectorial <b>SCAN</b> mode for RSSI tracking initial target's acquisition
Orientation Sensors	Built-in Compass, tilt sensor and GPS module (automatic north finding and positioning during GDT BIT)
Temperatures	<u>Operation:</u> -34°C to 60°C ; <u>Storage:</u> -40°C to 71°C
Environmental	IP-67