

Image Intelligence in Real-Time



The SkyLink, Mini-GS follows on the success of the original MINI series but built for the demands of mobile vehicles and ship-borne applications. The MINI-GS incorporates an advanced Dual-GSP (DGPS) and dynamic INS which automatically aligns with North to 0.15° accuracy on both stationary and moving vehicles and ships. Unlike other systems which rely on external heading sources, or unreliable magnetometers, the MINI-GS uses the advanced DGPS to continuously solve for heading. This system takes advantage the latest in global navigation with its 72 channel GNSS receiver capable of simultaneously tracking multiple constellations. Various tracking solutions are provided, including RF step track and MISB tracking data (radio link dependent). Designed for harsh weather including marine conditions, the MINI-GS will provide years of trouble-free operations.

The Mini-GS has unique features that include:

- Dual-GPS accurate to 0.15° heading
- Internal INS
- Built-in servo drive
- Controlled by PC or custom program
- Suitable for salt/fog environments
- Supports PoE operation and embedded radios

The Mini-GS has been proven to provide exceptional long-range performance and relies on multi-axis, stabilized high-gain antennas that are continuously steered toward airborne or ground assets. This allows the Mini-GS to focus all its signal energy into narrow beams, thereby increasing received signal level, reducing the need for amplification and maximizing range. The Mini-GS's highly directional antenna and focus on narrow beam width also provide an obstacle to signal jamming and interference characterized by omnidirectional antennas.

Dual-GPS with Embedded (INS)

The Mini-GS incorporates dual-GPS and embedded INS for improved accuracy, self-calibration and stand-alone positioning, heading, pitch and roll. Installation of the Mini-GS is independent of any external navigation equipment eliminating the need for onboard connectivity to external GPS or gyrocompasses reducing the cost and complexity of installation.

The Mini-GS has ruggedized gears and chemically resistant materials to withstand tough marine or ground vehicle environments.

Air-to-Ground Ethernet Connectivity

MINI-GS with Dual-GPS and Embedded INS

High-Gain Tracking Antenna for Marine Applications



Dual-GPS and internal INS

Optional dual rotary joint

Optional dual-frequency or dual-polarization

Gain: 15.5 dBi mid-band L/S

Lightweight and easy to install

Suitable for salt/fog environments

Automatic locating and tracking

Open-source Ethernet control or PC application included



The Data Link Experts

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Troll Systems' products are Made in the USA

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High-Gain L Band and S Band Ground and Marine Antenna with Dual-GPS SPECIFICATIONS

Mini GS

Specifications subject to change without notice.

Connection: N-Type (Transmitter)
Control: Ethernet
Power Input: PoE, AC or DC power supply included
Input Current: 1A nominal
Communication Output: Ethernet
Control Device: PC application compatible
 MISB tracking data via Ethernet

Azimuth Steering: Continuous rotation 100°/second
Elevation Steering: (+/- 0.1° repeatability)
 (+/- 0.3° accuracy)
 +90°/-30°; Total 120°



Antenna Characteristics	L Band	S Band	Lower C	Upper C	Ku Band
Type:	Slot	Slot	Horn	Horn	Horn
Mid-Band:	1.8 GHz	2.3 GHz	4.4 GHz	6.5 GHz	14 GHz
Beamwidth Az/EI (-3dB):	71°	64°	46°	34°/28°	30° / 25°
Antenna Gain:	14dBi	15 dBi	16 dBi	17 dBi	22 dBi
Polarization:	vertical	Circ/Linear	Circ/Linear	Circ/Linear	Circ/Linear

Specifications subject to change without notice.
 Linear polarization can be horizontal or vertical.
 Circular polarization can be right or left hand polarized.

Environmental
Marine Certification Suitable for salt/fog environments

Temperature -40C to +60C

Mechanical
Dimensions 13.2"H x 14"D
Weight: 13lbs



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