GrAnt-3LS

GNSS Antenna

Key Features

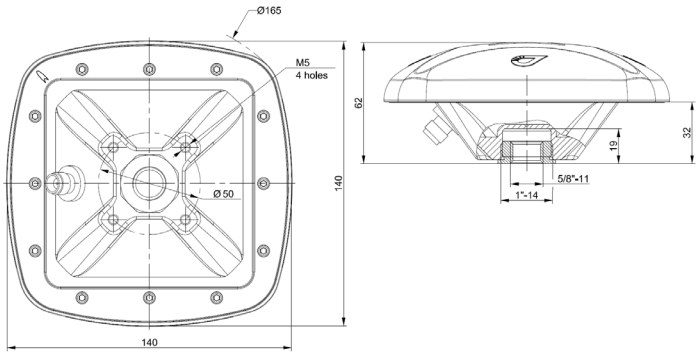
- All GNSS Constellations
- Weatherproof Housing
- Extended Operating Temperature
- Stable Phase Center
- Tracking to Horizon
- Aluminum Base

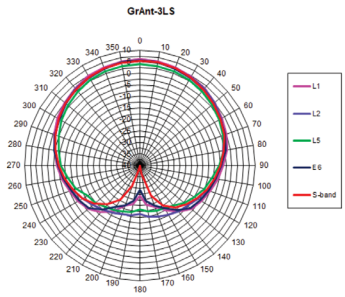
GrAnt-3LS is a wide-band antenna with full GNSS spectrum compatibility to track GPS, GLONASS, Galileo, BeiDou, QZSS, NavIC, SBAS, and L-Band signals.

GrAnt-3LS features a stable phase center with enhanced signal reception and is ideal for high precision positioning using L-Band corrections. With a durable IP68 housing, GrAnt-3LS is suitable for a wide variety of applications.

GrAnt-3LS Specifications

GNSS Constellations	GPS	L1 / L2 / L5
	GLONASS	L1 / L2 / L3
	Galileo	E1 / E5a / E5b / E6
	BeiDou	B1 / B1C / B2 / B2A / B2B / B3
	QZSS	L1 / L2 / L5 / L6
	SBAS	L1 / L5
	NavIC	L1 / L5 / S
	L-Band	1520-1540 MHz
Out-of-Band Rejection	165-1300 MHz	>60 dB @ 1000 MHz, >15 dB @ 1350 MHz
	1520-1610 MHz	>30 dB @ 1400 MHz, >20 dB @ 1462 MHz, >10 dB @ 1480 MHz, >20 dB @ 1690 MHz, >30 dB @ 1710 MHz, >60 dB @ 1800 MHz
	2483.5 - 2500 MHz	>50 dB @ 2400 MHz, >15 dB @ 2440 MHz, >20 dB @ 2550 MHz, >50 dB @ 2600 MHz
Electrical	Antenna Gain	1520 - 1540 MHz, 4.0 dB typical 1551 - 1614 MHz, 5.0 dB typical 1164 - 1300 MHz, 4.0 typical 2483.5-2500 MHz, 5.0 typical
	Axial Ratio Output	3.0 dB max
	Impedance	50 Ohm
	VSWR Max	2.0:1
	LNA Gain	32±2 dB; 40±2 dB (optional)
	Noise Figure	1.7 dB typical, 2.3 dB typical for S-Band
Connector	Antenna Cable	TNC; N type (optional)
	Mounting	5/8 x 11 inch, or 4 holes M5
Power	Input Voltage	+3.0 to +15 VDC
	Power Consumption	1.3 W (max)
	Current	90 mA @ 5.0V typical
Physical & Environmental	Operating Temperature	-45°C to +85°C
	Storage Temperature	-50°C to +85°C
	Humidity	100% non condensing
	Ingress Protection	IP68
	Shock	MIL-STD-810H Method 516.8 Procedure I
	Vibration	MIL-STD-810H Method 514.8 Procedure I
	Dimensions	140 x 140 x 62 mm
	Weight	543 g
	Material	Radome: ABS, Base: Aluminum





GNSS performance is dependent on signal quality, satellite geometry, ionospheric and tropospheric conditions, baseline length, multipath effects and RF interference. Specifications may be changed without notice.