



40DB gain GPS antenna with Lightning Protection | 66-110-GNSS| 123e.com

Part Number: 66-110-GNSS

123eWireless® Multi-Constellation GNSS Timing Antennas

Robust Performance | Built for Demanding Environments

Built for extreme reliability in congested cellular environments, our GNSS (Global Navigation Satellite System) Timing Antennas are engineered to support long-term, maintenance-free installations at tower sites and mission-critical network nodes.

Multi-Constellation Coverage:

GPS L1 | GALILEO E1 | GLONASS L1 | BEIDOU B1

Featuring a ruggedized design and integrated low-noise, high-gain amplifier, this antenna is optimized for deployments requiring extended cable runs—delivering consistent performance even in the most challenging RF environments. The proprietary design provides exceptional out-of-band signal rejection and enhanced low-elevation tracking—outperforming traditional patch antennas. Designed for global GNSS compatibility with an expanded frequency, this antenna ensures precision timing and synchronization across a wide range of network configurations.

Why 123eWireless:

- Field-proven solutions engineered for XtremeWeather™ conditions
- Seamless integration into timing and sync systems for cellular and private networks
- Backed by our commitment to performance, reliability, and support

PHYSICAL SPECIFICATIONS

Dimensions	5.0" H x 3.2" D (126 H x 81 mm)
Weight	0.6lbs
Connector A	N Female (one - bottom fed)

ELECTRICAL SPECIFICATIONS

Amplifier Gain	40 dB $\pm$ 4 dB @ GPS L1/GALILEO E1 38 dB $\pm$ 4 dB @ GLONASS L1/BEIDOU B1
Antenna Gain	$\geq$ 3 dBic
Current Draw	< 40 mA
Filtering	3 stage filtering including pre-selector
Frequency Range	1554-1615 MHz
Impedance	50 ohms
Noise Figure	$\leq$ 2.5 dB @ +25°C including pre-selector
Out-of-Band Rejection	$\geq$ -60 dB @ $f \leq$ 1530 MHz $\geq$ -60 dB @ $f \geq$ 1660 MHz
Polarization	Right hand circular
Voltage Rating	DC= 2.8-9.0 V (operating) $\leq$ 28.0 V (survivability)
VSWR	< 2.0:1

ENVIRONMENTAL SPECIFICATIONS

Humidity	95%
Operating Temperature	- 40°C to + 85°C
Temperature Range	- 40°C to + 85°C

Thank you visiting 123eWireless.

Please contact us at sales@123ewireless.com for any queries.