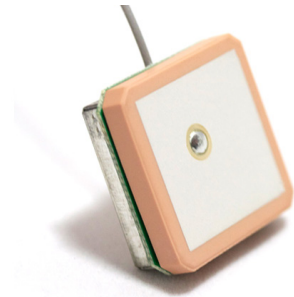




# MIA-1516

## GPS/GLONASS ACTIVE EMBEDDED ANTENNA

Ordering Part #: 189-00031-01

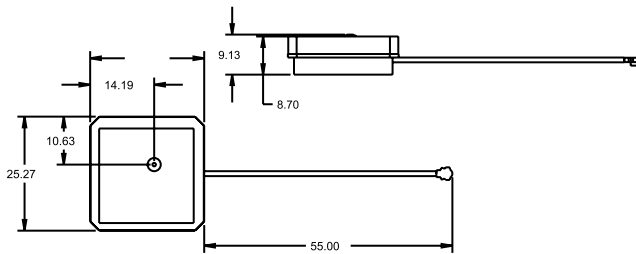


### Description

This high-performance dual band GPS/GLONASS active antenna is designed for various vehicle tracking, oil & gas and M2M applications. The very small size and lightweight make this antenna one of a kind in the market and perfect for a variety of commercial and industrial applications. With a low noise figure and high-linearity LNA, this antenna is the ideal solution for the most extreme and demanding applications, where reliable satellite reception and high accuracy is required. The interface connector is available in U.FL, or other options.

### Mechanical Specifications

Parameter	Design Specifications
RF connector	U.FL or other
Antenna weight	14 grams



dimensions are in mm

### Electrical Specifications

127x127 mm ground plane

Parameter	Design Specifications
Frequency	1590 MHz
Polarization	RHCP
DC voltage	2.5 to 5V
DC current	11 mA (max)
Bandwidth (-1dB)	15 MHz
Total system peak gain	30 dB @ 2.5 V / 32 dB @ 5 V
Axial ratio	1 dB (min)
VSWR	1.5:1
Impedance	50 Ohm
Operating temp.	from -40°C to 85°C

### Features

- GPS & GLONASS coverage
- Active LNA circuitry
- Custom cable/connector options
- Compact size
- Custom tuning

### Applications

- Vehicle and fleet tracking
- Military & security
- Asset tracking
- Embedded applications
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- Handheld devices
- Law enforcement

### Realized gain plot

Measured at 1590 MHz on a 127x127mm ground plane (E plane, 2.5 V)

