



a time and place...
for everything

Wi-Sys Communications Inc.

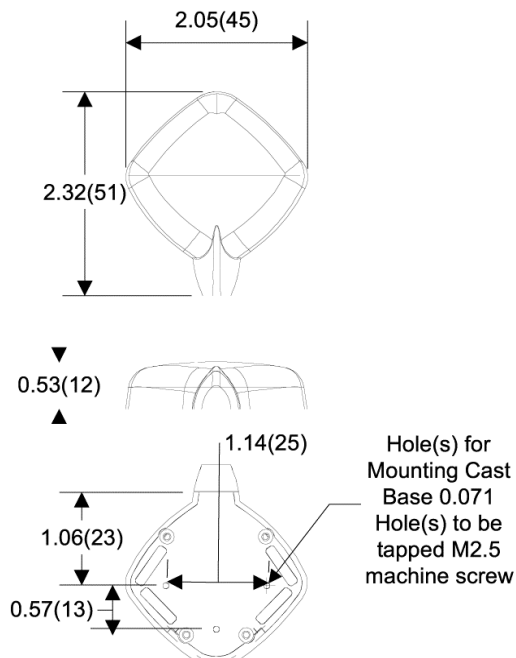
WS9111 Globalstar™ Simplex Transmitter Unit Magnet Mount Antenna

Applications:

- ◆ Simplex Transmitter Unit (STU) Applications
- ◆ Sea or Land Containers Tracking
- ◆ Automotive Navigation
- ◆ Fleet Management & Telematics
- ◆ Marine Navigation
- ◆ Security and Military



The WS9111 is a high performance passive 1615MHz, LHCP antenna, specifically designed and approved to operate with the Globalstar™ Simplex Modem. It features a precisely tuned custom ceramic patch antenna element and a matching network. The WS9111 antenna is enclosed in a rugged, fully weatherproof housing that allows the STU to be mounted away from the elements, yet fully meeting Globalstar's radiated power requirements. Its top cover (radome) is composed of high-grade GE plastic and the zinc base is equipped with both screw holes and magnets for ease of installation. The antenna comes standard with 75 cm of high quality Shikoku coaxial cable and with a SMA male connector.



Features:

- ◆ Custom tuned ceramic patch
- ◆ Rugged weatherproof housing
- ◆ Magnet mount or screw mount
- ◆ Wide range of connectors available
- ◆ Low price
- ◆ Customization available



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WS9111 Globalstar™ STU Magnet Mount Antenna

Designed for maximum performance, the WS9111 Antenna is ideal for Globalstar™ Simplex Modem Applications. With its high performance custom tuned ceramic patch and perfectly matched RF network, the WS9111 provides most reliable transmission of mission critical data at a low price.

The Wi-Sys Globalstar™ STU Antenna family

WS9111: Screw or magnet mount external antenna

WS9161: Embedded antenna with 1.8 inch dia. ground-plane

WS9171: Through-hole mount external antenna

WS9191: Ultra compact, surface mount external antenna

Technical Specifications

Environmental Specifications

- ◆ -40c to +80c operating (-45c to +80c storage)
- ◆ Humidity: 95% max (non condensing)

Mechanical

- ◆ 45mm x 51mm x 12mm
- ◆ 120g (4.2 oz)
- ◆ Attachment methods: Magnetic (5 lb lift-off force) or permanent (pre-threaded for 3 x M2.5 screws)
- ◆ Shock: Vertical axis 50G, Other axes 30G
- ◆ Vibration: 3 axis, sweep = 15 min
10 – 200 Hz log sweep: 3G

Antenna Response

- ◆ Frequency: 1615 MHz \pm 5 MHz
- ◆ Gain: 3 dBic @ 90°
- ◆ Polarisation: Left Hand Circular
- ◆ Axial Ratio: 3 dB @ 90°
- ◆ 10 dB Return Loss Bandwidth: 25 MHz
- ◆ Maximum Transmit Power: 21.5 dBm peak

Electrical

- ◆ Cable: 1.5 DS-QEHV by Shikoku Cable Co. Ltd.
- ◆ Cable Length: 75cm
- ◆ Cable loss: 1.3 dB/m typical
- ◆ Connector: SMA straight male, other connectors available

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