



a time and place...
for everything

Wi-Sys Communications Inc.

WS9161 Globalstar™ STU Embedded Antenna

Designed for maximum performance, the WS9161 Embedded Transmit Antenna is ideal for OEM Globalstar™ Simplex Modem Applications. With its high performance custom tuned ceramic patch and perfectly matched RF network, the WS9161 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 built-in 45.2 mm dia ground plane

WS9171: Through-hole, external mount antenna with built-in 45.2 mm dia ground plane

WS9191: Ultra compact, external surface mount antenna

Technical Specifications

Environmental Specifications

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

Mechanical

- ◆ Dimensions: 45.2 mm diameter x 7.7 mm
- ◆ Weight: 20g
- ◆ 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: RG174
- ◆ Cable Length: 15cm, custom length available
- ◆ Cable loss: 1.3 dB/m typical
- ◆ Connector: MCX right angle male, other connectors available

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