



High-Gain, Robust, Lightweight Antenna

Overview

The 25316 is a cross-Yagi antenna manufactured for our TX321, TX320, TX312, TX325, and SAT HDR GOES transmitters. You may also use it with the EUMETSAT and some GOES transmitters manufactured by other companies. This high-gain, robust, lightweight antenna provides you with optimum performance

for all fixed-location, satellite data collection platforms (DCPs). It consists of two quadrature-phased, five-element Yagi antennae, mounted on a common aluminum boom. The antenna's screw-in elements facilitate your shipping, storage, and field installation.

Detailed Description

Yagi Antennas

Yagi antennas are a type of directional antenna that consists of a rod pointed in the direction of the transmission/reception and several cross bars oriented at a 90° angle to the main rod.

The rod's length and spacing are optimized to transmit and receive transmission in the desired frequency band.

Note: On March 10 2009 the 25316 11-dBi Yagi antenna replaced the 17751 11-dBi Yagi antenna. The 17751 antenna had replaced the 12261 9-dBi Yagi antenna on August 20, 2004.

Specifications

Dimensions 99.06 x 15.88 x 15.88 cm (39.0 x 6.25 x 6.25 in.)

Weight 2.06 kg (4.55 lb)

Electrical

Frequency 401.8 MHz (nominal)

Bandwidth 2 MHz (minimum)

Input Power 15 W (maximum)

Input Impedance 50 Ω (nominal)

SWR 1.50 (maximum)

Directivity +14.0 dBic (nominal)

Gain 11.0 dBi

Polarization Right-hand circular

Half Power Beam Width 47° (nominal)

Connector Type N female



Environmental

Wind	100 knots
Ice & Snow	100 lb/ft ²
Rain	5 in./hr
Temperature	-65° to +65°C
Relative Humidity	0 to 100%

Altitude	-1000 to +15,000 ft MSL
Lightning	Antenna and elements at DC ground

Mechanical

Pipe Mounting	3.8 to 6.0 cm (1.5 to 2.375 in.) diameter
Azimuth Adjustment	360°

For comprehensive details, visit: www.campbellsci.com/p25316 



Campbell Scientific, Inc. | 815 W 1800 N | Logan, UT 84321-1784 | (435) 227-9120 | www.campbellsci.com
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