



# Beamer GPS

## Model CX-16

- Low Profile GPS antenna for external mobile application
- High Gain performance
- State-of-the-art low noise amplifier
- Ultra high sensitivity
- Excellent temperature stability
- Compact & rugged construction
- Suitable for vast range of GPS application

Physical Construction	
Construction:	Polycarbonate-radome, detachable cable/connector for easy mounting/ rubber O-ring between top radome and base for waterproof
Dimension:	60mm (Diameter) x 38mm (Height)
Weight:	65 grams (excluding cable & connector)
Color of Radome:	Ivory white, other colors available upon request
Standard Mounting:	Bulkhead mount with big threaded nut (standard accessory)

Antenna Element	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Polarization:	R.H.C.P (Right Hand Circular Polarization)
Absolute Gain at Zenith:	+5 dBi typical
Gain at 10° Elevation:	-1 dBi typical
Axial Ratio:	3dB max.
Output VSWR:	1.5 max.
Output Impedance:	50 ohm

Environmental	
Operating Temperature:	-30°C ~ + 85°C
Storage Temperature:	-40°C ~ + 90°C
Relative Humidity:	95% non-condensing
Waterproof:	100% waterproof

Cable & Connector	
RF Cable:	5 meter RG174/U
Pulling Strength:	6 KG./5 sec. with molded plastic on connector end for strain relief
Connector Available:	BNC, TNC, FME, SMA or as requested

Overall Performance	
Center Frequency:	1575.42 MHz
Gain:	30 dB min.
Noise Figure:	2.0 max.
Bandwidth:	2 MHz
Axial Ratio:	3 dB max.
VSWR:	2.0 max.
Output Impedance:	50 ohm

Low Noise Amplifier	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Gain:	30 dB typical
Bandwidth:	2 MHz min.
Noise Figure:	1.5 max.
OutBand Attenuation:	20 dB min. @FO +/- 50MHz
Supply Voltage:	4.5~5.5V DC
Current Consumption:	28 mA +/- 3 mA
VSWR:	2.0 max.
Output Impedance:	50 ohm