



**SYN7391-C Flat Mount Iridium® Antenna**

**General Description**



Model SYN7391-C is a small, inexpensive L-band antenna designed to operate with the NAL Research satellite modems and trackers. It is optimized to operate under various data modes specifically SBD.

**Specifications**

**Mechanical**

Dimensions:	1.81" L x 1.71" W x 0.45" H (4.60 cm x 4.34 cm x 1.14 cm)
Weight:	1.5 oz. without cable
Color:	Lusterless Black
Connector:	SMA Male with 36" Cable (Option: TNC, MCX, MMCX or N)
Material:	Hard Anodized Aluminum Base
Ground Plane:	Requires horizontal, relatively flat, metallic mounting surface with minimum of 2" from all edges, centered for optimal performance

**Electrical**

Frequency:	1610 to 1626.5 MHz
Radiation Pattern:	Hemispherical
Polarization:	Right Hand Circular
VSWR:	Less than 1.5 : 1
Gain Free Space (dB):	90° Zenith +5.0 10° Elevation -2.5 20° Elevation -0.5 30° Elevation +1.0 60° to 90° Elevation > +2.7
Axial Ratio:	2 dB
Impedance:	50 Ohms
Power Handling:	30 Watts
Cable loss between antenna and modem:	Less than 3dB

**Environmental**

Operating Temperature:	-40°F to +185°F (-40°C to +85°C)
Operating Altitude:	20,000 ft (6 km)
Vibration:	> 30 G's