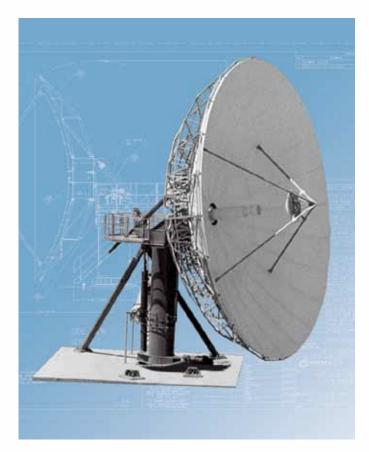
# Model 13.1m Cassegrain Antenna

## Satcom Antennas



### The Strength to Perform

Fully interchangeable reflector components with aluminum reflector panels and galvanized steel backup structure

Designed for 1.5 to 18 GHz operation, meeting FCC and ITU-RS-580 requirements

Galvanized steel elevation over azimuth pedestal with jackscrews

Survives 125 mph winds in any position

#### **Description**

The General Dynamics SATCOM Technologies 13.1-meter antenna delivers exceptional performance for transmit/ receive and receive only applications in L through DBSband frequencies. This antenna offers a reflector design that incorporates precision-formed panels, truss radials and hub assembly. It features an innovative Cassegrain feed and subreflector design which results in high gain, low noise temperature, high antenna efficiency and excellent rejection of noise and microwave interference. A large center hub provides spacious accommodation for equipment mounting. The reflector is supported by a galvanized elevation over azimuth kingpost pedestal that provides the required stiffness for pointing and tracking accuracy. The pedestals are designed for full orbital arc coverage and are readily adaptable to ground or rooftop installations. The electrical performance is compliant with FCC and ITU-RS-580 sidelobe specifications and Intelsat (A, B, C) and Eutelsat requirements.

#### **Options**

- L, S, C, X, Ku and DBS-band feed configurations
- C/Ku receive only feed systems
- CP/LP manual or remote switchable feeds
- Specialized feed systems (e.g., extended, multi-band)
- Antenna control system with tracking
- Reflector and feed deicing systems
- Environmental hub configurations
- Integrated transmit cross-axis kits
- Integrated LNA or LNB systems
- HPAs, converters and M&C systems
- Packing for sea and air transport
- Turnkey installation and testing

#### **Upgrades**

- X-band low PIM reflector/feed configurations
- Continuous bullgear azimuth travel
- High wind configuration
- Low operating temperatures
- High power configurations



### **Technical Specifications**

### Model 13.1m Cassegrain Antenna

xt. Ku-Band 4-Por Linear Polarized ceeive Transr 0.700 - 13.750 2.750 14.50 31.90 63.50					
eceive Transr 1.700 - 13.750 2.750 14.50					
1.700 - 13.750 2.750 14.50					
2.750 14.50					
1.90 63.50					
.30:1 1.30:					
).12° 0.11°					
).25° 0.23°					
90 K					
76 K					
67 K					
63 K					
40.5 (70 K LNA)					
2 kW C					
35.0 35.0					
35.0 35.0					
) dB -70 dl					
35 dB 0 dB					
0 d B 30 d E					
Meets ITU-RS-580					
975-2993					
d.					
destal (KP-HW)					
ls with heat-diffusing white paint					
) paint					
90 in (228 cm) OD, 49 in (124 cm) depth					
180° (3 segments @ 66°)					
0 to 90° continuous					
x 36 x 2.5 ft (12.5 x 11 x 0.8 m) ds³ (106 m³)					
50 kg)					
0 ft open top, two 40 ft standard ) mph (97 km/h)					
8° F (15° C)					
ts					

(4) Some specifications may vary based on the combination of equipment, options and/or upgrades ordered.

#### **GENERAL DYNAMICS**

SATCOM Technologies

http://www.SatelliteDish.com 954-941-8883