

RANTEC KU-Band 11.5-Inch (29.2 cm) GEN-4 ANTENNA SPECIFICATION

P/N 501486

Frequency Bands

Receive:

RF
IF

Band 1

10.95 - 11.75 GHz
1200 - 2000 MHz

Band 2

11.7 - 12.75 GHz
950 - 2000 MHz

Transmit

RF
IF

13.75 - 14.5 GHz
950 - 1700 MHz

Antenna Polarization

Receive
Transmit

Linear (270 degrees rotation capability)
Linear – Orthogonal to Receive

Receive Beamwidth

6.1° @ 11.7GHz

Transmit Beamwidth

5.0° @ 14GHz

Receive G/T

7.8 dBi/K at 30° elevation

Receive Amplification

65 dB minimum relative to feed input

Transmit EIRP

42.2 dBW at P1 dB nominal

Transmit Power

16.0 W typical into feed port

Weight

Antenna
ACU

22.0 lbs
4.0 lbs

Power Requirements

28 Volts DC, 8 Amps

IF Reference

Internal 10 MHz reference

Travel Range

Azimuth
Elevation
Polarization

Continuous
5 degrees to 85 degrees relative to mounting plate in aircraft tail
270 degrees total, ± 90 degrees from vertical or horizontal

Positioner Performance

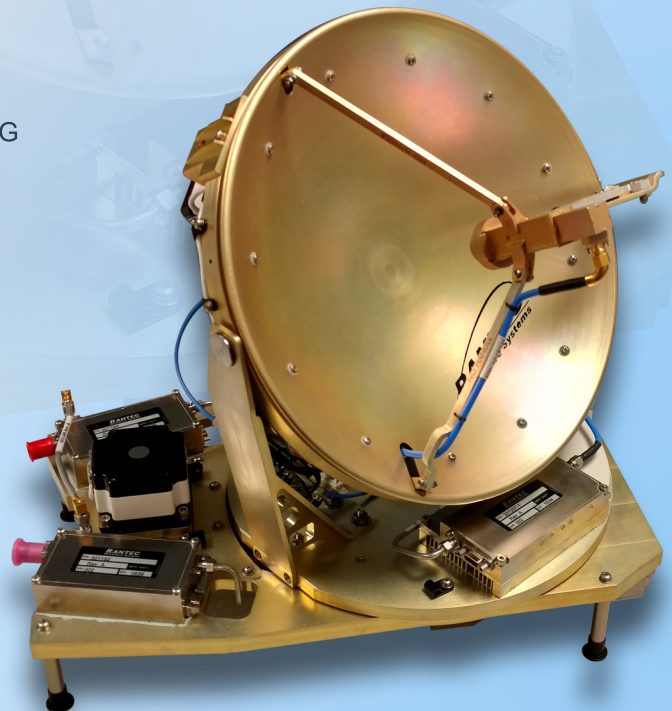
Velocity
Acceleration

30 deg/sec
40 deg/sec²

Environmental

Operating Temperature
Vibration/Shock

55°C to 65°C
RTCA/DO-160G



31186 La Baya Dr.
Westlake Village, CA 91362, USA
Telephone: 818-223-5000