

## 7.5 / 6.3 / 5.0 Meter Receive-Only Earth Station

| Typical RF Specifications                          | C-band  | Ku-Band            | X-Band               |
|--|---|--------------------|----------------------|
| Receive Frequency Range<br>(other bands available) | 3.625 - 4.2 GHz   | 10.95 - 12.75 GHz  | 7.75-7.75 GHz        |
| Midband Gain                                       | 47.9 / 46.4 / 44.0 dBi  | 57/55.7/53.6 dBi   | 53.5/52/50 dBi       |
| Noise Temperature                                  | 45/48/50 K @ 10°  | 50/53/56K @ 10°    | 48 / 50 / 53 K 10°   |
| Ports / Polarization                               | 1 or 2 port circular / 1 or 2 port linear   | 1 or 2 port linear | 1 or 2 port Circular |
| Motorized feed system also available               |   |                    |                      |
| Polarization Rotation                              | 360° Continuous   | 360° Continuous    | 360° Continuous      |
| Polarization Isolation                             | 30 dB LP  | 30 dB LP           | 25 dB LP             |
| VSWR   | Rx 1.4:1  | Rx 1.4:1           | Rx 1.4:1             |
| Feed Flanges                                       | Rx CPR 229G   | Rx WR75            | Rx CPR 112G          |
| Mechanical Specifications                          |   |                    |                      |
| Antenna Diameter                                   | 7.5m/6.3m/5.0m  |                    |                      |
| Elevation Travel                                   | 0 - 90° Standard  |                    |                      |
| Azimuth Travel                                     | 120° Standard   |                    |                      |
| Drive System: Elevation                            | Mechanical screw jack standard  |                    |                      |
| Drive System: Azimuth                              | Mechanical screw jack standard  |                    |                      |
| Mount Type   | Tube Pedestal   |                    |                      |
| Structure material and finish                      | Steel hot dip galvanized  |                    |                      |
| Reflector material and finish                      | Aluminum with high diffusive white finish on reflective surface                       |                    |                      |
| Environmental Specifications                       |   |                    |                      |
| Operational Winds                                  | 45 mph (72 km/h); gusts to 60 mph (97 km/h)   |                    |                      |
| Survival Winds                                     | 125 mph (200 km/h) @ 58°F (15°C)  |                    |                      |
| Ambient Temperature                                | Operational: +5° to +122°F (-15° to 50°C)<br>Survival: -22° to +140°F (-30° to +60°C) |                    |                      |
| Rain   | Up to 4 in/h (10 cm/h)  |                    |                      |
| Relative Humidity                                  | 0% to 100% with condensation  |                    |                      |
| Solar Radiation                                    | 360 BTU/h/ft <sup>2</sup> (1000 Kcal/h/m <sup>2</sup> )                               |                    |                      |
| Radial Ice (Survival)                              | 1 in (2.5 cm) all surfaces or 1/2 in (1.3 cm) all surfaces w/80 mph (130 km/h) gusts  |                    |                      |
| Shock and Vibration                                | As occurred during shipment   |                    |                      |
| Corrosive Atmosphere                               | As encountered in costal regions and/or heavily industrialized areas                  |                    |                      |
| Seismic (Survival)                                 | 0.3 G's Horizontal, 1.0 G's vertical  |                    |                      |

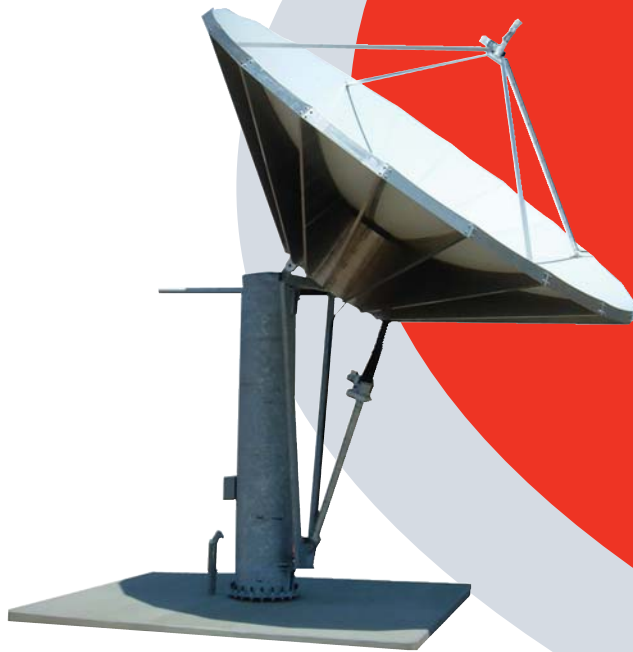
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All product specifications subject to change without notice.

**7.5 / 6.3 / 5.0 Meter  
Receive-Only  
Earth Station**



**7.5 / 6.3 / 5.0  
Meter**

*Features*

- C, Ku, and X-Band feed options
- Circular Foundation Interface
- Full line of options to meet any requirement
- High Wind and Full Motion options available
- No on site panel alignments required
- Installation Teams and Supervisors Available
- Factory assembled mount reduces installation time

*Description*

**Patriot antennas have superior surface accuracy.** Patriot's antenna reflectors incorporate precision stretch formed panels into very stiff backing structures. To insure quality and performance Patriot panels are inspected for R.M.S. accuracy using the latest in laser measurement techniques.

**Patriot antennas have superior corrosion resistance.** All reflector and mount parts are produced from high quality materials and treated for corrosion resistance by powder coat paint, epoxy paint or hot dip galvanizing as appropriate for each component. All hardware is stainless steel or hot dip galvanized depending on size an application.

**Patriot antennas are designed and built to weather the storm.** All Patriot Large Aperture Antennas are capable of surviving winds up to 125 mph as standard. High Wind designs are also available for areas that experience severe winds.