

# Model SAT1722-S Portable Terminal SatCom Antenna System

The Transportable Data Link Antenna Assembly consists of a reflector with a Ku-Band feed assembly, a pedestal with an integrated inclinometer/compass, an antenna controller with cables for connecting the pedestal, an RFE for filtering and amplification of the transmit and receive signals, high/low gain switch and a tripod assembly for mounting the pedestal/feed assembly, and packing cases for transporting the antenna assembly.

The pedestal includes the electrical/mechanical parts necessary for positioning the reflector and feed. The controller accepts azimuth and elevation angle data and positions the reflector accordingly. The Transportable Data Link Antenna Assembly takes less than 30 minutes for two people to setup.

## Features

- Transportable Data Link Terminal
- Lightweight Rugged Design
- Quick Assembly



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## Specifications

<b>FREQUENCY</b>		<ul style="list-style-type: none"> <li>• TX - 15.15 to 15.35 GHz</li> <li>• RX - 14.4 to 14.83 GHz</li> </ul>
<b>EIRP</b>	<b>High Gain:</b> <b>Low Gain :</b>	<ul style="list-style-type: none"> <li>• +75.3dBm</li> <li>• TBD</li> </ul>
<b>G / T</b>	<b>High Gain :</b> <b>Low Gain :</b>	<ul style="list-style-type: none"> <li>• &gt; +13.9 dB/K</li> <li>• TBD</li> </ul>
<b>AXIAL RATIO</b>		<ul style="list-style-type: none"> <li>• 2.0 dB maximum</li> </ul>
<b>POLARIZATION</b>		<ul style="list-style-type: none"> <li>• RHCP</li> </ul>
<b>REC SIGNAL STRENGTH</b>		<ul style="list-style-type: none"> <li>• -140 dBm to -80 dBm</li> </ul>
<b>SIDELOBES</b>		<ul style="list-style-type: none"> <li>• -18 dB</li> </ul>
<b>FRONT TO BACK RATIO</b>		<ul style="list-style-type: none"> <li>• 35 dB min</li> </ul>
<b>VSWR FEED</b>		<ul style="list-style-type: none"> <li>• 1.5 : 1 max</li> </ul>
<b>BEAMWIDTH</b>		<ul style="list-style-type: none"> <li>• 1.7o maximum between 3 dB points @ 14.4 GHz</li> </ul>
<b>PRIME POWER</b>		<ul style="list-style-type: none"> <li>• 120 volts 50/60 Hz</li> </ul>
<b>ISOLATION TX - RX</b>		<ul style="list-style-type: none"> <li>• -105 dBm</li> </ul>
<b>NORMAL OPERATIONAL XMIT LEVEL</b>		<ul style="list-style-type: none"> <li>• 4 watts CW</li> </ul>
<b>POINTING ACCURACY</b>		<ul style="list-style-type: none"> <li>• &lt;0.75° RSS</li> </ul>
<b>ANTENNA DIAMETER</b>		<ul style="list-style-type: none"> <li>• 36 inches</li> </ul>
<b>WEIGHT</b>		<ul style="list-style-type: none"> <li>• 200 lbs (excluding transit cases)</li> </ul>
<b>PEDESTAL TRAVEL RANGE</b>		<ul style="list-style-type: none"> <li>• 0° to 90° EL, 360° continuous Az</li> </ul>
<b>STOW SIZE</b>		<ul style="list-style-type: none"> <li>• 62" W x 1.8' H x 3.6' L</li> </ul>