



Model 600 Systems

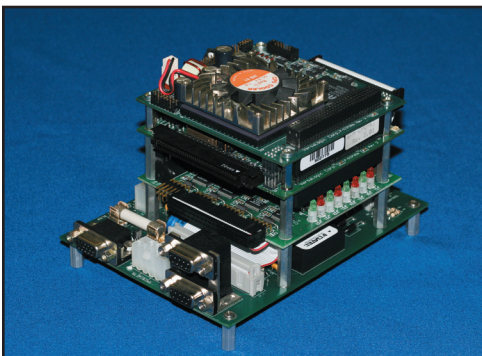
Portable Antenna Systems

We designed our Model 600 Antenna System for the telemetry user who is constantly on the move. It handles working on non-level surfaces as well as in extreme temperatures. The Model 600 comes equipped with an electronic compass and tilt sensor. All that is needed for setup is to plug it in. After self-calibration, the system is ready to be commanded through either a serial or Ethernet link. Commands to the system are given with respect to Magnetic North. The system can be installed on non-level surfaces up to 2 degrees and still maintain a full range of motion from -5° to 85° at any Azimuth angle. If the tilt of the system is more than 2° (up to 15°) off-level, the system will point with limited Elevation travel in respect to the real-world. This system can be configured for both transmit and receive. The system can be supplied with an optional tripod.

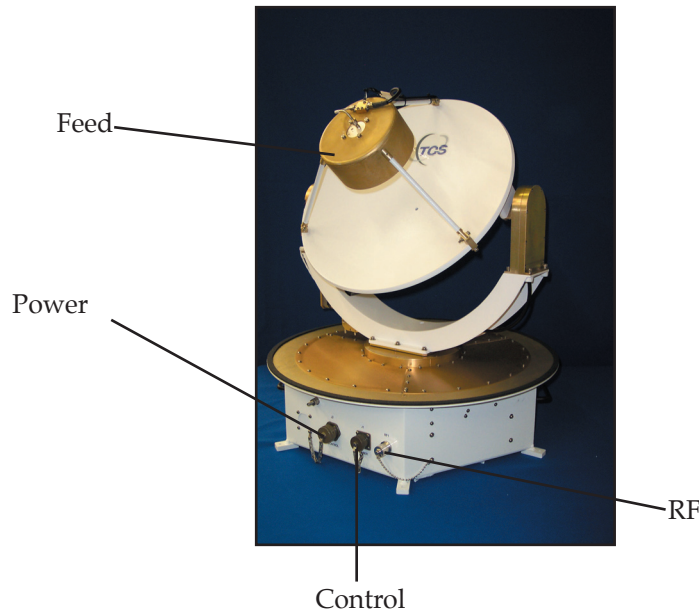


Special Features

- Complete dual axis system with slipping and rotary joint assemblies
- Handles up to 16" reflectors for L, S, X and K band applications
- Antenna Control Unit is embedded inside the base of the system
- Operates on Linux operating system with real-time extensions and custom software for system functionality
- Remote control from host computer over a specified serial or network interface
- Status information can be retrieved
- Designed and built for low EMI radiation for operations in sensitive areas
- Reflector is enclosed in a radome to eliminate wind and rain interference
- Transportable, quickly deployable, and reliable through a large range of operating environments
- Can be stabilized and customized for shipboard and airborne applications
- With GPS option, the Model 600 transforms into a satellite-tracking device that accepts either TLE files or a precomputed pass
- Can be customized for specific applications (such as GPS Slave tracking)



The ACU that controls the Model 600 System from within.



Specifications

Dimensions	3 0" (76 cm) x 22.5" (57 cm) x 2 2.5" (57 cm)
Weight	31 lbs (14 kg)
Pointing Accuracy	Better than 1° (Magnetic Heading)
Angular Resolution	0.01°
Total Travel	Azimuth: Continuous (with Slipping) Elevation: -5° to 85°
Reflector Size	12 - 24" (30 - 61 cm)
Power Requirements	1 Amp at 28 V, 110V _{AC} Available
Communication Links	Serial (RS-232/422/485) Ethernet (TCP/IP)
Operating Temperature	-22°F to 140°F (-30°C to 60°C)
Storage Temperature	-40°F to 160°F (-40°C to 71°C)
Frequency Range	L-Band through Ku Band



Telemetry & Communications Systems, Inc.

10020 Remmet Avenue
Chatsworth, California 91311-3854
www.tcs.la +1-818-718-6248