



**CREATIVE DIGITAL SYSTEMS INTEGRATION**

# Telemetry Systems

## Complete Telemetry Antenna Systems

CDSI provides a wide range of telemetry systems, from single axis pointers to sea-stabilized tracking antenna systems. The pedestals internal processor interfaces via fiber-optic connection to the remote ACU. CDSI's feeds are designed with band tuned elements providing superior system sensitivity. Completely tested and validated tracking capabilities using CDSI's proprietary Telemetry Environment Simulator (TES).

### Key Capabilities

- System Sizes From 1.2m - 4m
- L/S/C-Band Capable
- Up to 3-Axis Pedestals
- Field Configurable Feeds
  - 4/5G LTE Rejection Available
- RF, Optical or Slave Tracking Capabilities
- Zero or Low Backlash Pedestals
- On Board Real-Time Servo Control
- Ethernet or Fiber Optic Remote Control

### Other Services

- Legacy System Modernization
  - Feeds, Motors, Servos
  - ACUs, Servo Processors





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### Specifications

#### **Pedestal:**

Axis.....	Up to 3
Typical Velocities.....	≥ 20°/second AZ & EL
Elevation Travel.....	≤ 5° to ≥ 185°
Azimuth Travel.....	+/- 400° or Continuous
Sea Stabilized.....	Roll/Pitch 0.2° Heading < 0.50° GPS

#### **Antenna:**

Reflector.....	1.2m to 4m Parabolic or Cosecant Squared
Feed.....	Modular, Tracker or Pointer
	L, S, C, L/S, L/S/C Bands
Polarization.....	Linear (H/V) or Circular (RHCP/LHCP)
2.4m Antenna Typical G/T:	
L-Band.....	1800MHz → 7dB/K
S-Band.....	2300MHz → 10dB/K
C-Band.....	5100MHz → 16dB/K

#### **Power and Environment:**

Power.....	120-240VAC
Temp: Operational.....	-20°C to +50°C (Extended Temperature available)
Storage.....	-50°C to +70°C
Relative Humidity.....	0 to 100%
Wind: Operational.....	80km/h with Gust up to 100km/h
Non-Operational.....	180km/h (Stowed)