The SPARTE 300 series antenna is a field and time proven product delivered to customers for mission-critical applications where the telemetry reception is at stake. This robust antenna ensures to our customers highly accurate operations, as well as a long lifetime and simple maintenance tasks.

The SPARTE 300 series empowers users with a variety of applications, such as aircraft tracking, very high speed targets with high dynamics, or duplex datalinks with an Rx/Tx system. Additionally, the numerous and customizable I/Os provide users with the ability to operate the antenna in a multi-site tracking fashion, with master-slave communications between smaller and larger models.
SYSTEM SPECIFICATIONS

Pedestal
Azimuth Travel Range: Unlimited
Elevation Travel Range: -5° / + 185° option -15° / + 195°
Angular Velocity: ± 30 °/s on Each Axis
Angular Acceleration: ≥ 40 °/s² on Each Axis

Reflector
Aluminum Alloy Reflector / Any Kind of Payload

Servo-Control
Static Pointing Accuracy: ≤ 0.2° rms
Tracking Accuracy: ≤ 0.1° rms
Acceleration Lag: ≤ 0.2°°/°/s²

Antenna Control Unit
Manual, Slew, Scan, Slave (2 x Inputs), RF Tracking, Program-Track, GPS Slaving
Advanced Features: Autotracking (Automatic ACU Modes Management), Auto Acquisition (with Adjustable Signal Thresholds), Multipath Clipping, Centralized Remote Control for Receivers, Recorders...
Tracking Signal Inputs: 4x Pairs of AM+AGC
Auto-Diversity: LHCP/RHCP, Best Telemetry Channel
Diagnostic Tool: Continuous BIT, Servo-Control, Tracking, Y-Factor, Logbook, Parameters Recording

General Characteristics
Power Standard: 110 - 230 Vac 50-60Hz
Power Consumption: 2.5 kVA Peak and 4 kVA with Max Wind Load
Antenna Weight: 550 kg (1212 lbs)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature Range
Outdoor Equipment: −25 to +55°C / +13 to +122°F

Operational Wind in 2.4 m
Mean: Up to 80 km/h
Gust: Up to 100 km/h
Survival Wind: Up to 200 km/h

Humidity
Outdoor: 95%
Indoor: 85% Non-Condensing

OPTIONAL ITEMS

1.8 M / 6 FT | 2.4 M / 8 FT | 3.0 M / 10 FT

- Operator control desk
- Cable wrap (±360°)
- Video camera for visual target aiming
- SCM feed up to 1000Hz tracking rate
- Acquisition aid and omni antennas
- 3rd channel and embedded test dipole
- Low gain switching for short range
- Single / Dual / Tri-band feed
- 6ft, 8ft, 10ft reflectors available
- Shipborne version (Inertia Measurement Unit and -15° lower EL limit)
- Trailer-mounted version
- GPS time / position / heading synchronization (single or differential)
- IR tracking capability
- Custom form factors available on demand

Tracking
Receive Frequency Range: 1429 - 1545 MHz / 2200 - 2400 MHz / 4400 - 5250 MHz
Receive Polarization: RHCP and LHCP
Axial Ratio: ≤ 1.5 dB on Axis
-3dB Beamwidth @ 2.3GHz: 5° / 3.8° / 2.9°
G/T @2300 MHz, No Filter, 10° Elevation, 20°C Clear Sky: 6.3 dB/K / 8.8 dB/K / 10.7 dB/K
Maximum Wind for Nominal / Degraded Performance: 100 / 120 km/h / 80 / 100 km/h / 50 / 75 km/h