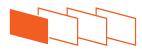
**DATA SYSTEMS** 



TRACK RECEIVE RECORD PROCESS

# SPARTE 700 L/S/C

Tracking Antennas 20ft (6.0m) / 24ft (7.3m)



**TELEMETRY GROUND SOLUTIONS** 



The SPARTE 700 series antenna is a field and time proven product delivered to customers for **mission-critical applications** where the telemetry reception is at stake. Any flying target such as aircraft or space launching vehicles will be accurately tracked thanks to the high gain of this **large aperture antenna**.

The very robust and solid design of the SPARTE 700 series ensures the **best performance in any situation:** aluminumalloy reflector for increased surface accuracy, SCM tracking feeds for reliable and accurate tracking, dual drive for motors redundancy and no-backlash...

And for the ever most demanding applications, the SPARTE 700 series also exists in **skid-mounted transportable and 3-axis gyro-stabilized versions.** 



Launch Vehicle Telemetry



Missile Testing



Fixed & Rotary Wing

BEST-IN-CLASS SERVO CONTROLS
Direct Drives, Precise
Reducers

SCM 1000 HZ SCAN RATE Common SCM Design for Main & ACQ-AID Feed **C-BAND FIELD UPGRADE-ABLE**Simple Add-On without
any Structural Change

DUAL DRIVE
Uninterrupted Operations,
No Backlash

TRANSPORTABLE VERSION
Relocatable skid mounted version



#### **TELEMETRY GROUND SOLUTIONS**

# SPARTE 700 L/S/C

#### SYSTEM SPECIFICATIONS

#### **Pedestal**

Azimuth Travel Range	± 270°
Elevation Travel Range	0°/+90°
Angular Velocity	10°/s Az, 10°/s El
Angular Acceleration	10°/s²
Motors	2 Motors/Axis (Dual Drive)
Position Readouts	17 bits Encoders

#### Reflector

12 Panel Segmented Aluminum Alloy Reflector

#### **Servo-Control**

Pointing Accuracy	≤ 0.08° rms
Tracking Accuracy	≤ 0.05°
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, ...

#### **General Characteristics**

Power	. 230 or 400 Vac 50-60Hz. 30kVA
Antenna Weight	11,000 kg (24,250 lbs)

### > ENVIRONMENTAL SPECIFICATIONS

#### **Operating Temperature Range**

	13°F to 122°F (-25°C to +50°C)
Indoor Equipment	50°F to 95°F (+10°C to +35°C)
<b>Operational Wind</b>	
Mean	≤ 90 km/h
Gust	≤ 110 km/h
Survival Wind	≤ 200 km/h

#### Humidity

Outdoor	100 %
Indoor	85 % Non-Condensing

## **>** OPTIONAL ITEMS

- ▶ INET
- ► Operator control desk
- Reflector and feed de-icing system
- Rotary joint for unlimited azimuth travel
- Axial video camera for visual target aiming
- ► 3<sup>rd</sup> channel and embeded test dipole
- ► Low gain switching for short range

- ► Single / Dual / Tri-band feed
- ► 100W and 1000W S-Band Tx (+Rx) feed
- ► 3-axis pedestal version for shipborne operations
- ► Skid-mounted relocatable version
- ► Radome environment protection
- ► Extended Elevation travel range -5+92°
- ► Extended temperature -40°C

	6.0 M / 24 FT	7.3 M / 24 FT
Tracking	8 Dipoles Monopulse	
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	1,5°	1,24°
G/T @2300 MHz, No Filter, 10° Elevation, 20°C Clear Sky	16.3 dB/K	18 dB/K
Maximum Wind for Nominal / Degraded Performance	100 / 120 km/h	90 / 110 km/h







#### **GLOBAL SALES**

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**SAFRAN**