

DATA SYSTEMS



AXS 370 AXS 550

Satellite Tracking Antennas LEO Satellites in S / X-Band



SATELLITE TRACKING SOLUTIONS

AXS Series antennas are lean versions of the well-known systems deployed by Safran Data Systems worldwide, over the past decade, for high performance customers. Customers can benefit from this technology to support **LEO satellites in X-band Rx, S-band Rx and S-band Tx.**

Proposed in baseline as **stand-alone products**, our COTS AXS antennas can also be efficiently integrated into a **complete system** with Safran Data System's **Satcore^{Direct} baseband**, either by Safran Data Systems or by the customer.



Scientific
Commercial
Satellites



Small
Satellites



Service
Providers

COMMERCIAL OFF-THE-SHELF

Cost-Effective Antennas

HEXATRACK TRACKING

Safran Data Systems Patented
Software Algorithm

SIMULTANEOUS DUAL-POLARIZATION

For both S & X-Band Rx

SIMPLICITY & RELIABILITY

Easy Deployment &
Maintenance

PERFORMANCE

Best in Market

CONNECTING NEW SPACE

SATELLITE TRACKING SOLUTIONS

AXS 370 / AXS 550

	MODEL	AXS 370	AXS 550
	DIAMETER	3.7m (12 ft)	5.5m (18 ft)
	CONFIGURATION	X or S or S+X	
S-Band Rx [2.200 – 2.300 GHz] Tx [2.025 – 2.120 GHz]	G/T Mid-Band, 5° Elevation, Clear Sky, +20°C, Continental	>13 dB/K	>16 dB/K
	Rx Polarization	LHCP or RHCP (select at order) • Option: Simultaneous Dual Polarization	
	EIRP @ Psat	50 dBW • Option: 54 dBW	52 dBW • Option: 56 dBW
	Tx Polarization	LHCP or RHCP (Switchable)	
X-Band Rx [7.900 – 8.500 GHz]	G/T Mid-Band, 5° Elevation, Clear Sky, +20°C, Continental	>27 dB/K	>30.5 dB/K
	Rx Polarization	LHCP or RHCP (select at order) • Option: Simultaneous Dual Polarization	
	Specific Filtering	On-Demand	
Mode of Operations	Auto-Track Mode	Hexatrack (Option)	
Accuracies	Tracking Accuracy	0.13° rms	0.10° rms
	Pointing Accuracy	0.13° rms	0.10° rms
Environmental Conditions	Operating Wind	90 km/h (56 mi/h) gust	
	Survival Wind	180 km/h (112 mi/h)	200 km/h (125 mi/h)
	Operating Temperature	-20° C to +50° C (14° F to 122° F) • -40° C to +50° C (-40° F to +122° F) with Available Options: Winter Package, Deicing, Radome	
	Outdoor Equipment Weight	750 Kg (165.4 lb)	5,000 Kg (11.023 lb)

PEDESTAL SPECIFICATIONS

Tracking Any Satellite from 400 km (250 miles) Altitude

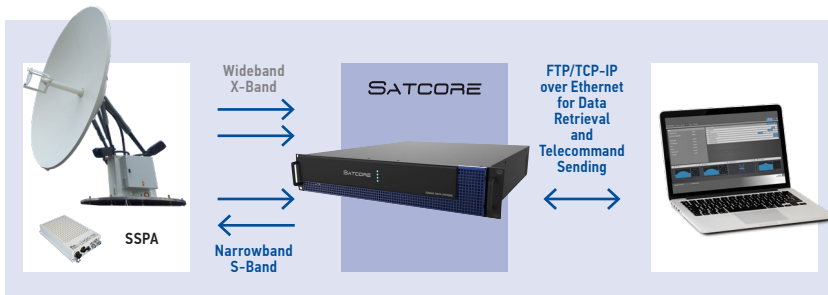
Azimuth Travel Range Unlimited
 Elevation Travel Range 0° / +180°
 Angular Velocity 3°/s, Any Direction
 Angular Acceleration 10°/s²

AVAILABLE OPTIONS

- ▶ Simultaneous Dual Polarization in All Bands
- ▶ Loop-Back Tests
- ▶ Hexatrack
- ▶ SSPA
- ▶ Satcore Baseband
- ▶ MCS Server



All AXS antennas parts are factory calibrated. They are delivered pre-assembled to simplify customer installations.



AXS Series Low Risk, High Performance & Right Price

GLOBAL SALES

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