



TRACK

TRANSMIT

RECEIVE

RECORD

# PRO 370 PRO 550

## TURNKEY SYSTEMS

READY FOR NEXT GENERATION SATELLITES  
S / X / KA-BAND



PRO Series antennas are the flagship antenna systems of Zodiac Data Systems. Their **state-of-the-art technology and full motion tracking capabilities** have made them successful worldwide.

The PRO Series is defined as a **complete package including all capabilities** (simultaneous dual polarization, single channel monopulse tracking and test capabilities in all bands), basebands and services. They ensure our customers a smooth deployment, easy operational start and a long service life in all environments.



Scientific Missions

**TRIBAND S / X / KA**  
ZDS Patented Concentric Feed

**100% IN-HOUSE COMPONENTS**  
High Performance



Earth Observation Satellites

**HEXAPOD PEDESTAL**  
ZDS Patented Solution Targeting any point in the 360° Hemisphere

**SATELLITE AGNOSTIC**  
Versatile Architecture



Service Providers

**CORTEX SERIES BASEBAND**  
The Space Community Standard

**THE RESILIENT ASSET FOR THE NEW STANDARDS**

# Satellite Tracking Solutions

## PRO 370 / 550

	MODEL	PRO 370	PRO 550
	DIAMETER	3.7 m	5.5 m
	CONFIGURATION	S+Ka	X or S+X or S+Ka or S+X+Ka
<b>S-Band</b> 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 and RHCP (Simultaneous)	
	EIRP @ Psat	54 dBW	56 dBW
	Tx Polarization	LHCP or RHCP (Switchable)	
<b>X-Band</b> Rx [7.900 - 8.500 GHz]	G/T Mid-Band, 5° Elevation, Clear Sky, +20°C, Continental	N/A	>30.5 dB/K
	Rx Polarization		LHCP + RHCP
	Specific Filtering		Included - Radar Low Pass Filter
<b>Ka-Band</b> Rx [25.500 - 27.000 GHz]	G/T Mid-Band, 5° Elevation, Clear Sky, +20°C, Continental	>30.5 dB/K	>35 dB/K
	Rx Polarization	LHCP and RHCP (Simultaneous)	
<b>Mode of Operations</b>	Auto-Track Mode	Single Channel Monopulse - Triband/Polarization Switchable in each band (ZDS Patented)	
<b>Accuracies</b>	Tracking Accuracy	0.03° rms	0.05° rms
	Pointing Accuracy	0.10° rms	0.08° rms
<b>Environmental Conditions</b>	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 (-4°F to +122° F) • -40°C to +50 °C (-40° F to +122° F) with Available Options: Winter Package, Deicing, Radome	

### PEDESTAL SPECIFICATIONS

#### Tracking Any Satellite from 400 km Altitude

Azimuth Travel Range	540°
Elevation Travel Range	0°-90° + Train Axis
Angular Velocity	12°/s El - 10°/s Az
Angular Acceleration	10°/s <sup>2</sup> El / 10°/s <sup>2</sup> Az

### BASEBAND



#### The Space Community Standard

TT&C Modem	Cortex CRT
High Rate Demodulator	Cortex HDR



**PRO Series**  
Highest Quality, Best Performance  
& Ultimate Service Level

#### GLOBAL SALES

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## ZODIAC DATA SYSTEMS

ZODIAC AEROSYSTEMS  
Control Systems Division

