



Size:

7.50m

PXY-750

Multi-Band Versatility

The PXY-750 delivers outstanding pattern characteristics and high gain across S, C, X, Ku, or Ka bands. Configurable with circularly or linearly polarized multi-port combining networks, this durable antenna system operates efficiently while withstanding harsh environmental conditions. Its versatility ensures reliable performance for diverse tracking applications.

Precision-Engineered Components

The aluminum alloy main reflector is precision-formed for strength and accuracy, requiring minimal maintenance. Divided into multiple parts for transport to remote locations, the reflector panels receive conversion coating and highly reflective white paint. A hot-dipped galvanized steel mount ensures pointing precision, durability, and long-term dependability.

Advanced Tracking with Monopulse

The S/X band feed with Monopulse capabilities, paired with the Antenna Control Unit and Tracking Receiver, enables precise LEO/MEO/GEO satellite tracking. Brushless motors deliver up to 5° per second acceleration along the Az/EI axis.

Key Features

- S and X Bands available
- Superior precision
- PC-based Automated Computer Control with P-Series ACU
- High Torque and Low Backlash
- Rapid Slew Rates
- Brushless Motors
- Rugged Construction
- Supports S-Band through Ka-Band
- Monopulse tracking





GENERAL SPECIFICATIONS

Reflector Diameter	7,50m
Mount Type	Elevation over Azimuth or X/Y
Feed Type	S/X band monopulse capability

RF CHARACTERISTIC

	S-Band	X-Band
Frequency (GHz) Tx	2.025 - 2.120	
Frequency (GHz) Rx	2.200- 2.300	8.00-8.40
Gain (dBi) Tx	41.00	
Gain (dBi) Rx	42.00	53.00
Feed Port Tx	RHCP/LHCP selectable	
Feed Port Rx	RHCP/LHCP simultaneous	RHCP/LHC
Port-to-Port Isolation (dB)	>30dB S-Band Rx to Rx / >70 dB S-Band Rx & Tx to X-Band Rx	
Return Loss (dB)	>20	
Polar Discrimination (dB)	>25 within the 1dB contour of the pattern	
G/T (dB/K)	18.3 @ 2.2 GHz 5° EI, 0.95 NF LNA	30.0 @ 8.2 GHz, 5° EI, 0.8 NF LNA
Feed Interface	WR430	WR112
Surface Accuracy	≤0.4mm (R.M.S)	
Antenna Pattern Compliancy	ITU-R S.580-6 and ITU-R S.465-6	

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation
Antenna Motion Range	0°~ 90°	± 180 °
Antenna Drive Rate	Up to 5°/s	Up to 5°/s

ENVIRONMENTAL SPECIFICATIONS

	PXY-750
Temperature Range Operational	-50~ +55°C
Temperature Range Survival	-55~ +65°C
Wind Speed Operational	72km/h
Wind Speed Operational (with gusting)	Up to 85 km/h
Wind Load Operational (stowed)	200km/h
Humidity	0 to 100%

Specifications are subject to change.

