



POMA-60

The SOTM type POMA-60 supports both Ku and Ka band operations and can simultaneously achieve Ku & Ka dual-band functionality without changing the feed. It features a direct drive mechanism for azimuth (AZ) and elevation (EL) with high reliability and a cap design feed for efficient performance and reduced side lobes.

This antenna operates independently of GPS by using satellite beacon tracking to correct gyro errors, requiring only manual input of local latitude and longitude before initial satellite pointing. It offers rapid initial satellite pointing, with GPS/BD cold start positioning in under 80 seconds and hot start (or manual input) in under 60 seconds.

SOTMs are ideal for a variety of applications. The POMA-60 provides reliable real-time communication for military operations, stable connectivity for emergency response, and high-quality live broadcasting. It also ensures secure connectivity for corporate networks and consistent satellite communication for maritime and aviation use, maintaining reliability across diverse terrains and weather conditions.

Key Features

- Available in Ku and Ka Bands
- High Tracking Accuracy, the Tracking error < 0.5 dB RMS without blockage
- Good Tracking Stability, the AZ system uses a closed-loop stabilization algorithm for precise satellite tracking, even during fast movements or "S" travel.
- Blockage recovery in under 3 seconds for blockage times under 5 minutes; recovery in under 5 seconds for blockage times under 20 minutes
- Dynamic Pointing and Switching enables real-time satellite pointing and seamless satellite switching while in motion.
- Optional 4G / 5G / LTE supported modem for load balancing and bonding solutions





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Environmental Data	
Operating wind speed	Max.60m/s at any direction
Working temperature	-30°C-+55°C
Storage temperature	-40°C-+60°C
Protection grade	IP67
Working humidity	0%-98%

RF performance data					
Aperture	0.6m				
Reflector material	Carbon fiber				
Antenna form	Circular symmetrical reflector and cap feed				
	Ku-Band 2 ports, Linear polarized Feed Ka-Band 2 ports, circular polarized Fee		cular polarized Feed		
Working frequency (GHz)	Rx	Tx	Rx	Tx	
	10.70	13.75	17.7	27.5	
	12.75	14.50	21.2	31.0	
POL form	H/V linear		LHCP/RHCP		
Antenna Gain at Mid- band ±0.2 dB(dBi)	35.6	37.1	40.2	43.6	
1st side lobe	≤-14dB		≤-14dB		
Cross POL (dB)	35 (axial)		-		
Axial ratio (dB)	-		1.5		
Tx-Rx isolation (dB)	35 (Axis)		-		
Rx-Tx isolation (dB)	85	-	85	-	
VSWR	=	30	-	30	

Mechanical		I
AZ motion range	360° continuous rotation without limit	
EL motion range	-5° -100°	
POL motion range	± 110°	± 45°
AZ revolution	200°/s	
EL revolution	200°/s	
AZ acceleration	200°/s2	
EL acceleration	200°/s2	
Pointing accuracy	≤0.2° (R.M.S)	
Initial acquisition time	≤ 2min	
Blockage recovery time	≤5s (blockage 20min)	
Weight of product	≤40Kg	
Radome size	1000×590 mm (D× H)	

Electrical data	
Power supply of system	100-230VAC 50-60Hz
Positioning mode	GPS+BD
Steady type	Two axes for stability, three axes for tracking

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