



## 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.

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

- Ku, Ka Bands and dual band option available
- 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 <3 seconds for blockage times <5 minutes; recovery in <5 seconds for blockage times <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



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	IP65						
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 Feed			
Working frequency (GHz)	Tx	Rx		Tx	Rx		
	13.75	10.95		30.0	20.2		
	14.50	12.75		31.0	21.2		
POL form	H/ V Linear			LHCP/RHCP			
Antenna Gain at Mid- band ±0.2 dB <sub>(dBi)</sub>	36.7	35.2		43.4	40.1		
Antenna Pattern Compliancy	ITU-R S.580-6 & ITU-R S.465-6						
Cross POL (dB)	35 (axial)			-			
Axial ratio (dB)	-			1.5			
Tx-Rx isolation (dB)	85	-		85	-		
Rx-Tx isolation (dB)	-	30	-	-	30		
VSWR	1.50:1		1.30:1		1.50:1		
Mechanical							
AZ motion range	360° continuous rotation without limit						
EL motion range	0° ~100°						
POL motion range	± 110°			± 45°			
AZ revolution	200°/s						
EL revolution	200°/s						
AZ acceleration	200°/s <sup>2</sup>						
EL acceleration	200°/s <sup>2</sup>						
Pointing accuracy	≤0.2° (R.M.S)						
Initial acquisition time	≤ 2min						
Blockage recovery time	≤ 5s (blockage 20min)						
Weight of product	≤ 65Kg						
Radome size	1000×590 mm (D× H)						
Electrical data							
Power supply of system	100~230VAC 50~60Hz						
Positioning mode	GPS+BD						
Steady type	2-axes for stability, 3-axes for tracking						

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