



## 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 $\pm 0.2$ 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	1.30:1

#### 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°/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	≤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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