



Size:

0.60m

## POMA-60

### Dual-Band Flexibility

The SOTM type POMA-60 supports both Ku and Ka band operations, enabling simultaneous dual-band functionality without changing the feed. Its advanced cap design feed and direct drive mechanism for azimuth and elevation ensure high reliability and efficient performance across all conditions.

### Rapid & Autonomous Positioning

This antenna operates independently of GPS by using satellite beacon tracking to correct gyro errors. It requires only a one-time manual input of local latitude and longitude. Initial satellite pointing is rapid: GPS/BD cold start takes under 80 seconds, while hot start (or manual input) takes under 60 seconds.

### Versatile Applications

Ideal for diverse markets, the POMA-60 ensures real-time communication for military operations, stable connectivity for emergency response, and high-quality live broadcasting. It also provides secure links for corporate networks and consistent satellite communication for maritime and aviation use, maintaining reliability across all terrains and weather.

### Key Features

- Ku and Ka Bands and Dual Bands are available
- High Tracking Accuracy; the tracking error <math><0.5\text{ dB (RMS)}</math> without blockage
- Perfect Tracking Stability, even during fast movements or "S" travel
- 2-Axes stability, 3-axes tracking system
- Fast Sheltering Recovery Time  
Blockage <math><5\text{min}</math>, recovery <math><3\text{s}</math>
- 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





**GENERAL SPECIFICATIONS**

Reflector Diameter
Reflector Material
Stabilization Platform
Antenna form
Positioning Mode
Power supply of system

**POMA-60**

0.6m
Carbon-Fiber
2-Axes Stability, 3-Axes Tracking
Circular symmetrical reflector and cap feed
GPS+BD
100-230VAC 50-90Hz

**RF CHARACTERISTIC**

Frequency (GHz) Tx
Frequency (GHz) Rx
POL Form
Antenna Gain (dBi) Tx
Antenna Gain (dBi) Rx
Cross POL (dB)
Axial Ratio (dB)
Tx-Rx isolation (dB)
Rx-Tx isolation (dB)
VSWR Tx
VSWR Rx
Antenna Pattern Compliancy

**Ku-Band 2 ports, Linear polarized Feed**

13.75 ~14.50
10.95 ~12.75
H/V Linear
36.7
35.2
35 (axial)
-
85
30
1.50:1
1.30:1
ITU-R S.580-6 & ITU-R S.465-6

**Ka-Band 2 ports, circular polarized Feed**

30.0 ~31.0
20.2 ~ 21.2
LHCP/RHCP
43.4
40.1
-
1.5
85
30
1.50:1
1.30:1

**MECHANICAL SPECIFICATIONS**

Antenna Motion Range
Antenna Revolution
Pointing Accuracy
Initial Acquisition Time
Blockage Recovery Time
Weight
Radome size

**Azimuth**

360° cont. rotation without limit
200°/s
≤0.2° (R.M.S)
≤ 2min
≤5s (blockage 20min)
≤65Kg
1000×590 mm (Dx H)

**Elevation**

0°-100°
200°/s

**Polarization**

± 110°
200°/s

**ENVIRONMENTAL SPECIFICATIONS**

Wind Speed Operational
Temperature Range Operational
Temperature Range Survival
Protection grade
Humidity

**POMA-60**

216 km/h
-30°C~+55°C
-40°C~+60°C
IP65
0%-98%

Specifications are subject to change.