



STANDARD  
MIL-STD  
810

STANDARD  
MIL-STD  
188-164C

STANDARD  
MIL-STD  
461

Size:

0.60m

## POMA-60

### The Compact SOTM Solution for Mobile Missions

The POMA-60 is a compact SATCOM-On-The-Move (SOTM) antenna system for land platforms. It delivers seamless, real-time Ku- and Ka-band satellite connectivity for mission-critical voice, video, and data, keeping mobile command, emergency response, and broadcast teams connected from any vehicle, on any terrain.

### Advanced Engineering in a Minimal Footprint

Brushless DC servo motors with a precision gear train provide accurate, low-backlash pointing, while the cap-type feed delivers high efficiency and low sidelobes. All models support dual-band Ku/Ka operation with no hardware change, maximizing versatility and performance in an ultra-compact form factor.

### Autonomous, Secure, and Simple Operation

The POMA-60 is fully self-contained and does not depend on GPS for tracking: advanced beacon tracking continuously corrects gyro drift, making it suitable for GPS-denied environments. After a one-time entry of the platform position, it acquires and tracks the satellite fully automatically while on the move.

### Key Features

- Low-profile, lightweight design for vehicle roof mounting
- 3-axis gyro-stabilized positioner with brushless DC servo motors
- Integrated beacon tracking receiver – GPS-independent, operates in GPS-denied environments
- Multi-orbit support: GEO, MEO, LEO
- Initial acquisition < 2 min; re-acquisition < 3 s after blockage
- Stable tracking during high-dynamic manoeuvres
- Seamless satellite switching while in motion
- Modem-agnostic, OpenAMIP support
- Fully integrated BUC, LNB and ACU in a single unit
- Optional 4G/5G/LTE modem for load balancing and bonding



## GENERAL SPECIFICATIONS

|                          |                                                                 |
|--------------------------|-----------------------------------------------------------------|
| Reflector Diameter       | 0.60m                                                           |
| Stabilization Platform   | 3-Axes                                                          |
| Power Supply             | 18/36 VDC or 220V/AC 300W                                       |
| Signal Tracking Accuracy | <0.2° (R.M.S)                                                   |
| Blockage recovery time   | ≤3s (blockage 20min)                                            |
| Initial Acquisition Time | ≤2min                                                           |
| Compliance               | Compliant with ITU-R S.465-6, ITU-R S.728-1 (Ku) / S.524-9 (Ka) |

## RF CHARACTERISTIC

|                                     | Ku-Band     | Ka-Band     |
|-------------------------------------|-------------|-------------|
| Frequency (GHz) Tx                  | 13.75~14.50 | 27.50~31.00 |
| Frequency (GHz) Rx                  | 10.70~12.75 | 17.70~21.20 |
| Antenna Gain @ Midband (±0.2 dBi)Tx | 36.70       | 42.70       |
| Antenna Gain @ Midband (±0.2 dBi)Rx | 35.40       | 38.90       |
| Cross-Polar Isolation               | >30dB       | >30dB       |

## MECHANICAL SPECIFICATIONS

|                      | Azimuth         | Elevation   | Polarization |
|----------------------|-----------------|-------------|--------------|
| Motion Range         | 360° continuous | -15° - 110° | ±90° (Ku)    |
| Antenna Speed        | 200°/s          | 200°/s      |              |
| Antenna Acceleration | 500°/s²         | 500°/s²     |              |

## ENVIRONMENTAL SPECIFICATIONS

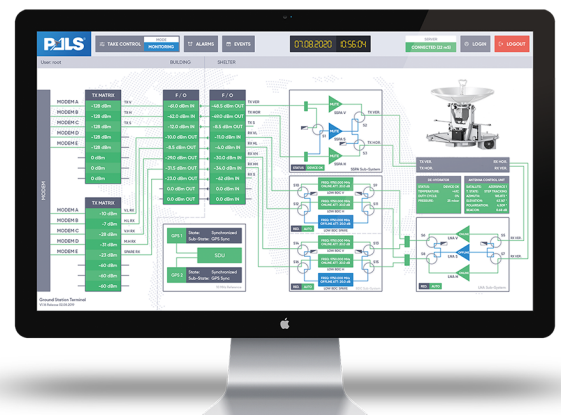
|                               | POMA-60                                            |
|-------------------------------|----------------------------------------------------|
| Temperature Range Operational | -55 ~ +70°C                                        |
| Temperature Range Survival    | -55 ~ +85°C                                        |
| Protection                    | IP65                                               |
| Vehicle Speed                 | Up to 130 km/h (full performance)                  |
| Wind Load                     | 200 km/h with radome (combined vehicle + headwind) |

## M&C Interface

Ethernet interface for M&C and user interface.

Full remote operation and monitoring with multiple tracking options.

The antenna can be controlled via the provided computer software application or via a customer interface.



Specifications are subject to change.

