

 **MSA-60**
SAILFREE
Ka-Band Maritime Terminal

MSA-60 is 63 cm diameter Ka-band Satcom On The Move antenna. It automatically acquires the satellite and starts to track while vehicle is moving. It provides broadband connectivity via satellite to maritime and land applications.

It is best suited for broadband Internet services during sailing. Thanks to its cutting-edge tracking technology, MSA-60 provides superior connectivity even under harshest conditions in the sea.

Light weight and simple three cable connection to indoor equipment makes it easy to install the antenna on ship or boat.

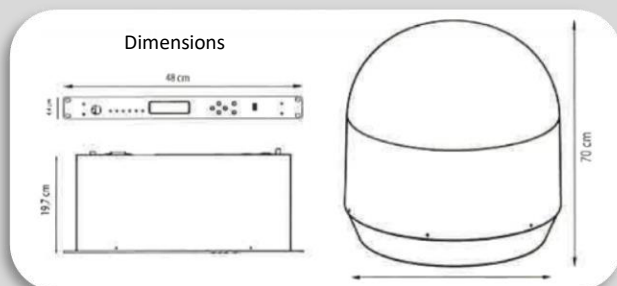
MSA60 is the perfect solution for those looking for affordable and highly reliable solution for Ka-Band mobile connectivity.

Key Features

- Highly efficient Cassegrain 63cm reflector
 - Automatic satellite acquisition and tracking
 - Ka-Band communication
 - Gyro, GPS, compass, inclinometer sensors
 - Circular polarization
 - Internal signal tracking receiver
 - Antenna software upgrade over Antenna Control Unit
 - Ethernet, USB and RS232 interfaces
 - 24 VDC or 220 VAC power options
 - Typical 30 seconds lock on time
 - Compliant with Eutelsat, Avanti, Turksat and similar operators
 - Compliant with Hughes, iDirect, Viasat modems
- Easy installation with simple connections.
Light weight <20 kg

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Antenna Specifications*	
Reflector	63 cm dual reflector Cassegrain
Gain	Rx: 39.6 dBi @20GHz, Tx: 41.9 @29.8 GHz
HPBW	Rx 1.7deg Tx: 1.1deg
Cross POL Isolation	27dB
RX Frequency	19.2-20.2 GHz
TX Frequency	29.5 - 30.0 GHz
Polarization	RHCP / LHCP Circular
Geometry	Elevation over azimuth
Antenna Tracking	Conical Scanning
Pointing Error	< 0.3 ⁰
Speed	80 ⁰ /s and El axis)
Acceleration	100 ⁰ /s ² (Az and El axis)
Azimuth Range	0 - 680 ⁰
Elevation Range	5 ⁰ to 80 ⁰
Acquisition	< 30 sec (connection time depends on the modem)
Tracking Source	Internal signal receiver
Sensors	Compass, Inclinator (with Kalman Filter)
ODU Dimensions	DxH: 74 cm x 70 cm
Weight	< 20 kg
Operating temperature	-20 ⁰ C to +60 ⁰ C
ACU Specifications*	
External Interfaces	LCD display, Keypad, Ethernet, USB, RS232
ODU Connection	1 x F-Connector for power and data
User Interface	OLED displays, 6 buttons keypad 6 LEDs and ON/OFF
Modem Protocol	OpenAMIP
Software Upgrade	Over USB or Ethernet
Mount Type	19" 1RU rack mount
Dimensions	HxWxD: 4.4 x 48 x 20 cm
Weight	3 kg
Voltage	220V AC or 12/24V DC
Power	50W (excluding BUC)



*Specification of the products are subject to change without any notice