



Innovation in Antenna Technology



INNOVATIVE

The Mobile WorldSpace antenna provides advanced RF performance while maintaining an aesthetic, low-profile design. It is the only L-band antenna specifically designed for ground mobile WorldSpace applications. The low profile design of the antenna and the WSMAC-1 mount allows discrete installation on all car types.

RECEPTION

The omni-directional antenna provides full azimuth coverage with a broad elevation beam to ensure operation over the largest possible coverage area. The omni-directional pattern assures you are always pointing at the satellite. Dual polarization allows reception of all channels.

COMPATIBILITY

The antenna is backward compatible with all WorldSpace mobile receivers, including Tongshi, AMI, and other receivers with the WSMAA-1 adapter.

INSTALLATION

You can easily install the antenna on any car using the magnetic mount on the bottom of the antenna casing. No manual pointing is required, so you can automatically enjoy WorldSpace service no matter which direction you travel.



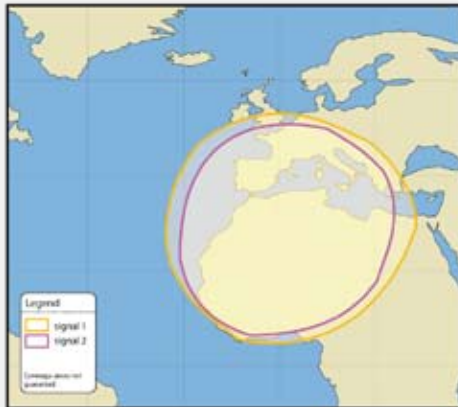
AVAILABLE ACCESSORIES

Antenna Power Supply Adapter



WSMAA-1

Predicted Coverage Area - Antenna Horizontal JAST Marine Antenna



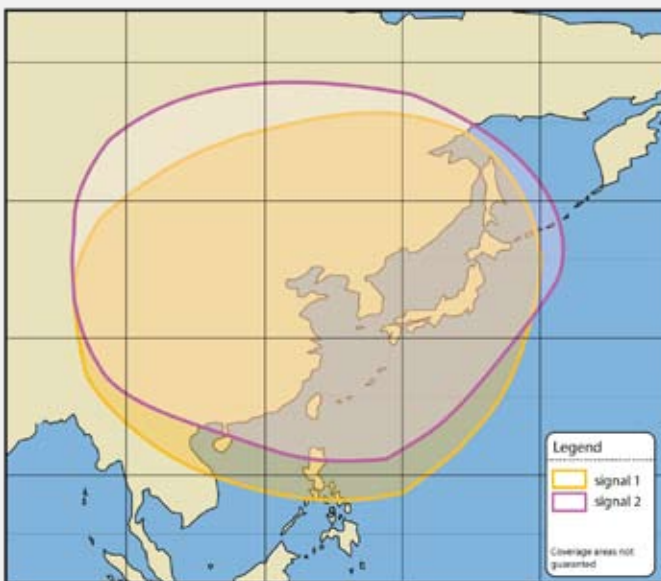
AfriStar North-West



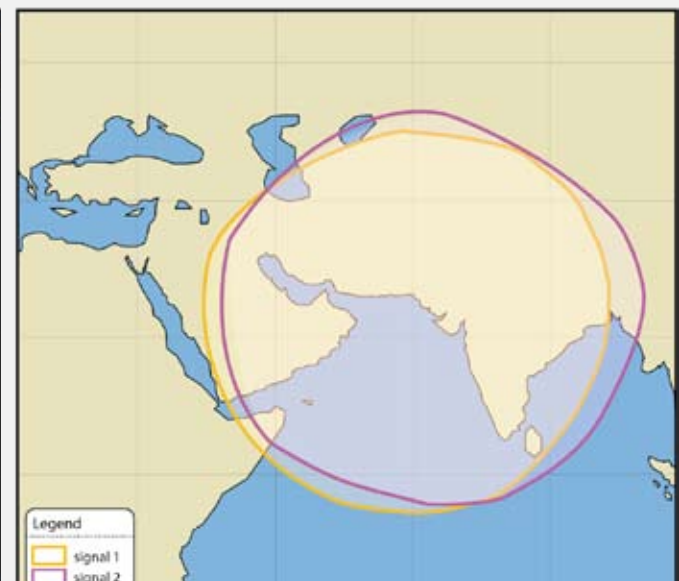
AfriStar North-West



AfriStar North-West



AsiaStar North-West



AsiaStar North-West

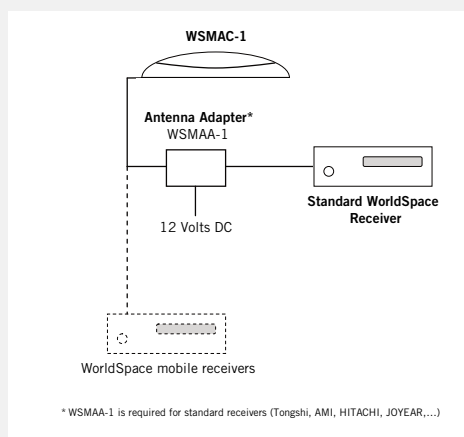


SPECIFICATIONS

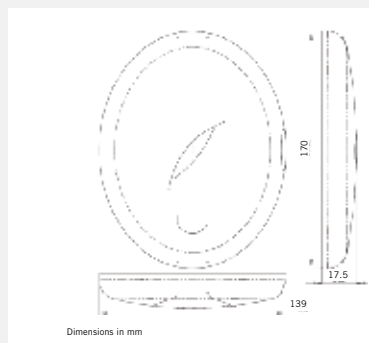
Antenna Characteristics

Frequency Band	1462 - 1492 MHz
Polarisation	Dual circular RHCP and LHCP
Gain	> 3 dBic for $25^\circ < \text{elevation} < 70^\circ$ $0^\circ < \text{azimuth} < 360^\circ$
Elevation Coverage	$\sim 20^\circ \leq \alpha \leq 70^\circ$ average (Depends on satellite power flux)
Azimuth Coverage	$0^\circ \leq \phi \leq 360^\circ$.
Supply Voltage	6-8V (Through coaxial cable)*
Current Consumption	< 150 mA @ 25°C
Noise Figure @ fR	< 0.8 dB @ 25°C
Gain in Pass Band	27 dB \pm 2 dB
Linearity	IP3=+3 dBm
Temperature Range	-40°C to 80°C
Installation	magnetic or screw mounting
Output	5 m RG174 coaxial cable with SMA male connector
Colour	Black
Housing Characteristics	Waterproof (IP65)

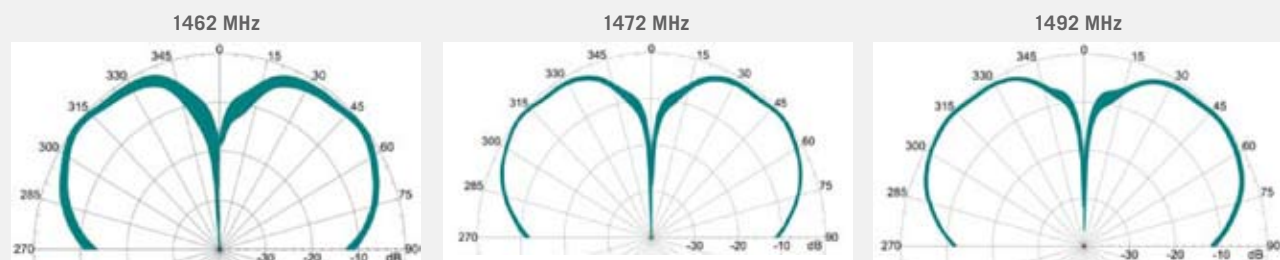
System Configuration



Antenna Dimensions



Typical Radiation Patterns



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