DataPath Ku-Band Maritime Antenna System℠

Series MAS 1100

DataPath's new Ku-Band Maritime Antenna System delivers uninterrupted communications with virtually no loss of electromagnetic compatibility, radio performance or reliability.

The new Maritime Antenna System builds upon the company's modular and robust designs used in its land-based, rapid-deploy Q-Series antenna systems and the quick-deploy C-series terminals. The innovative 4-Axes gimbaled Maritime Antenna System provides an accurate and long-lasting maritime SATCOM solution that meets all the standards required for military use.

The high performance, stabilized VSAT (Very Small Antenna Terminal) is easy to install, light and small - yet is reliable and provides superior radio performance to support mission critical applications used on a modern warships.

COMPLIANCE TO MIL STANDARDS

DataPath's Maritime Antenna Systems are tested and approved based on military standard specifications for vibration, shock, and EMC according to MIL STD 810G and MIL STD 461F.

STANDARD CARBON FIBER REFLECTOR

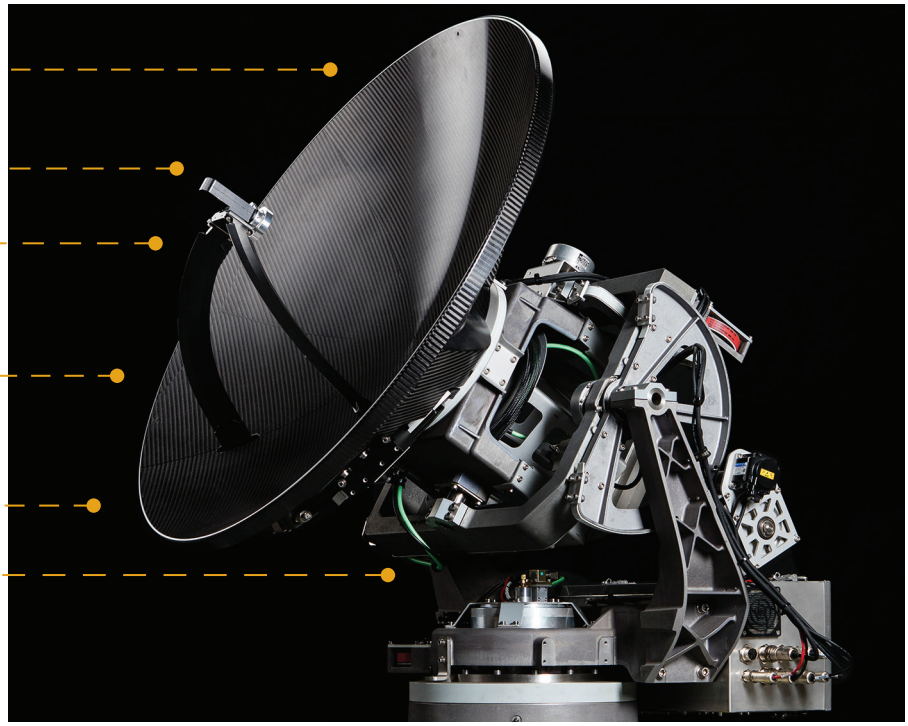
ANTENNA COMPLIES WITH EUTELSAT STANDARDS

FAST SATELLITE ACQUISITION
Terminal Locks On Satellite Within Eight Seconds

UNIQUE 4-AXES DESIGN CREATES LESS STRESS ON MECHANICAL RIG
Reduced Maintenance Costs and Downtime

FOUR AXES MEANS NO ZENITH PROBLEMS AT THE EQUATOR

REMOTE MANAGEMENT USING SNMP



SPECIFICATIONS

Stabilization Type	4-axes gimbals. AC servo low inertia belt drive
Antenna Type	Prime Focus
Reflector Diameter	1 m (39")
Radome Size	H: 1.35 m (53") D: 1.45 m (57")
Weight including Radome	230 kg (510 lbs)
Frequency	Rx: 10.95 - 12.75 GHz / Tx: 13.75 - 14.5 GHz
Antenna Gain	Rx: 40.0 dBi / Tx: 42.0 dBi
Reflector Material	Carbon Fiber
Side lobe Envelope	33 - 25 log (θ)
Cross Polarization	Tx:> 35 dB within 1 dB cone
Signal Polarization	Linear Cross-pole
G / T (@ 20° elevation, typical)	18.5 dB / K @ 12.2 GHz
Maximum BUC Power	50W internal BUC or 100 - 200W external BUC
Antenna Movement Azimuth	Continuous, unlimited (slip ring)
Elevation	0 - 120°
Cross Level	± 30°
Polarization	± 120°

Ship Motion	± 30° per 4s in pitch, roll and yaw
Heave	+/- 5m @ 3s
Pointing accuracy	0.1° RMS
GPS Antenna	Built in
Radar Rejection	> 80 dB @ 9.6 GHz
Radome Material	Polyester laminate with Trident foam core
Compass Interface	NMEA 0183
Nominal Voltage	115VAC @ 60 Hz or 220 - 230VAC @ 50/60 Hz
Operating Temperature	-20 - 55° C
Humidity	97% @ 30° C
Vibration Operating	MIL-STD-810G, Method 528, Table 528.III
Shock Operating	20 g, half-sin 11 ms, MIL-STD-810G, Method 516.6
Shock Non-Operating	Transverse / Longitudinal: 20 g 20 ms; 40 g 6 ms Vertical: 15 g 20 ms; 30 g 6 ms
EMC	MIL STD 461F, RS103 200V / m (2 MHz - 40 GHz)

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