

MarineLink™ COM100X

1.0m X-Band Maritime Antenna

Norsat MarineLink™ COM series provides reliable satellite communications at sea.

The MarineLink's 3-axis operating platform and 360 degree high speed tracking design ensures a reliable link in even the most rugged conditions.

With its simple setup and pre-programmed satellite almanac, staff with minimal training can have a MarineLink system up and transmitting in just a matter of minutes.



FEATURES

- Advanced anti-vibration technology with built in shock absorber
- Automatic satellite search & skew control
- Fast tracking speeds (90 deg/s) for accurate and dependable signal lock
- 3-axis operating platform for reliable operations even in rough sea states (up to Sea State 6)
- Built-in motor brake and wire-rope isolator for longevity and reliability
- Unlimited azimuth for precise tracking and ease of cable management
- 3 types of Gyro input (NMEA Synchro step by step)

ELECTRICAL SPECIFICATIONS (1/2)

Reflector Aperture	100 cm (39 in)
Antenna Dimension	144 cm (D) x 152 cm (H)
Antenna Weight	120 Kg (not including RF)
Radome Material	Honeycomb FRP
Tx Frequency	7.9 ~ 8.4 GHz
Rx Frequency	7.25 ~ 7.75 GHz
Tx Gain	36.89 dBi @ 8.15 GHz
Rx Gain	36.3 dBi @ 7.5 GHz
G/T	16.37 dBi/K @ 7.5 GHz including radome loss
Operating Platform	3 - Axis
Skew Control	Automatic
Elevation Angle	-15° to +110°
Azimuth Range	Unlimited
Cross Angle	± 35°
Tracking Speed	More than 90°/sec
Antenna Input Power	Tx : 100-240V AC, 656 VA Rx: 48V DC, 4.18A supplied by ACU

ELECTRICAL SPECIFICATIONS (2/2)

ACU Size	19" Rack 1U size
External I/O	RS232C, mini-USB, Ethernet
Gyro Interface	NMEA, Synchro, Step by Step
Input Power	100 ~ 120V AC / 200 ~ 240V AC 50/60Hz, 8A/4A
Output Power	48V DC, 4.18A

PACKAGING

Size (L x W x H)	158 cm x 158 cm x 177 cm
Gross Weight	262 Kg
Packed by	Wooden Crate

ENVIRONMENTAL

Temperature	-20° to +55°C
Humidity	Up to 100% @ 40°C
Vibration Damper	Shock Absorber and Wire Rope Isolator
Ship Motion	Roll: ±25° at 6-12 sec periods Pitch: ±15° at 6-12 sec periods Yaw: ±5° at 5-50 sec periods



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ACCESSORY OPTIONS

BUC OPTIONS	BUC	BUC POWER SUPPLY
50W	BUC-100016	Via Power Vessel System
100W	BUC-100030	Via Power Vessel System
125W	BUC-100031	Via Power Vessel System
150W	BUC-100032	Via Power Vessel System
175W	BUC-100033	Via Power Vessel System

LNB OPTIONS

LNB XT1000 or XT1000 Series

AIR CONDITIONING

COM-AC Air Conditioner Unit

HEATER OPTION

COM-HT Heater Unit

VCS OPTION

COM-VCS VSAT Cross Over System

COM-VCS-N VSAT Cross Over System with 10MHz reference and Emission Control (EMCOM)

INTEGRATION

COM-INT Assembly, function verification, and pointing test (standard product/RF packages only)

INSTALLATION

COM-INST On board placement, mounting and assembly service, booting and testing.

COMMISSIONING

COM-COM Complete system verification testing post installment