



Norsat
International Inc.

Innovative Communication Solutions

MarineLink™ COM150X 1.5m 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)
- WGS certified



SPECIFICATIONS

ELECTRICAL

Reflector Aperture	150 cm (59 in)
Antenna Dimension	212 cm (D) x 206 cm (H)
Antenna Weight	314 Kg (not including RF)
Radome Material	FRP
Tx Frequency	7.9 ~ 8.4 GHz
Rx Frequency	7.25 ~ 7.75 GHz
Tx Gain	40.2 dBi @ 8.15 GHz
Rx Gain	39.6 dBi @ 7.5 GHz
G/T	19.7 dB/K (in Radome)
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
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)	225 cm x 225 cm x 240 cm
Gross Weight	545 Kg
Packed by	Wooden Crate

ENVIRONMENTAL

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

MARINELINK™ COM150X 1.5M X-BAND MARITIME ANTENNA

COM150X

ACCESSORY OPTIONS

BUC OPTIONS

50W	BUC BUC-100016	BUC POWER SUPPLY 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
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AIR CONDITIONING

COM-AC	Air Conditioner Unit
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HEATER OPTION

COM-HT	Heater Unit
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VCS OPTION

COM-VCS	VSAT Cross Over System
or	
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)
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INSTALLATION

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

COM-COM	Contacting with HUB and set to optimal communication status and frequency post installation
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