



# MarineLink™ COM120KU 1.2m Ku-Band Maritime Antenna

Norsat MarineLink™ COM series provides reliable satellite communication at sea with a 2048kb/s downlink and 512kb/s uplink.

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)
- Intelsat qualified, CE certified

## ELECTRICAL SPECIFICATIONS (1/2)

|                     |  |
|---------------------|--|
| Reflector Aperture  | 120 cm (47 in)   |
| Antenna Dimension   | 161 cm (D) x 163 cm (H)  |
| Reflector Material  | Honeycomb FRP  |
| Antenna Weight      | 138 Kg   |
| Tx Frequency        | 13.75 ~ 14.5 GHz   |
| Rx Frequency        | 10.75 ~ 12.75 GHz  |
| Tx Gain             | 42.87 dBi @ 14.25 GHz  |
| Rx Gain             | 40.95 dBi @ 11.75 GHz  |
| G/T                 | 20.79 dB/K (in Radome) @ 30deg. Elevation angle and 11.75 GHz, clear sky |
| Operating Platform  | 3 - Axis   |
| Skew Control        | Automatic  |
| Elevation Angle     | -10° to +110°  |
| Azimuth Range       | Unlimited  |
| Cross Angle         | ± 35°  |
| Tracking Speed      | More than 90°/sec  |
| Antenna Input Power | 48V DC, 4.18A  |
| ACU Size            | 19" Rack 1U size   |
| Gyro Interface      | NMEA 0183, Synchro, Step by Step   |

## ELECTRICAL SPECIFICATIONS (2/2)

|              |   |
|--------------|---|
| Input Power  | 100 - 120V AC / 200 - 240V AC<br>50/60Hz, 8A/4A |
| Output Power | 48V DC, 4.18A                                   |
| External I/O | RS-232C, Mini-USB, Ethernet, Console            |

## PACKAGING

|                  |                          |
|------------------|--------------------------|
| Size (L x W x H) | 174 cm x 174 cm x 190 cm |
| Gross Weight     | 310 Kg                   |
| Packed by        | Wooden Crate             |

## ENVIRONMENTAL

|                  |  |
|------------------|--|
| Temperature      | -20° to +55°C  |
| Humidity         | Up to 100% @ 40°C  |
| Vibration Damper | Shock Absorber and Rubber Damper included  |
| Ship Motion      | Roll: ±25° at 8-12 sec periods<br>Pitch: ±15° at 6-12 sec periods<br>Yaw: ±8° at 15-20 sec periods |





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## ACCESSORY OPTIONS

| BUC OPTIONS | BUC        | BUC POWER SUPPLY         |
|-------------|------------|--------------------------|
| <b>2W</b>   | ELMTBKU002 | Via IFL Cable Connection |
| <b>3W</b>   | ELMTBKU003 | Via IFL Cable Connection |
| <b>4W</b>   | ELMTBKU004 | Via IFL Cable Connection |
| <b>6W</b>   | ELMTBKU006 | Via IFL Cable Connection |
| <b>8W</b>   | ELMTBKU008 | Via IFL Cable Connection |
| <b>10W</b>  | ELMTBKU010 | Via IFL Cable Connection |
| <b>16W</b>  | ATOMBKU016 | Via Power Vessel System  |
| <b>20W</b>  | ATOMBKU020 | Via Power Vessel System  |
| <b>40W</b>  | ATOMBKU040 | Via Power Vessel System  |

| LNB OPTIONS | SERIES             | SINGLE/MULTI BAND |
|-------------|--------------------|-------------------|
| <b>LNB</b>  | 1000H or HS1000    | Single-Band       |
|             | 1000HDF or 1000XDF | Dual-Band         |
|             | 1000HU or 1000XU   | Quad-Band         |

### 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

