

SUPERTRACK

Z10MK4 - DUAL Ku / Ka BAND COMMUNICATION

The Supertrack Z-Series is the perfect solution for high speed broadband connectivity in any challenging sea condition. We assure you stay connected wherever you are via on board networks such as internet access, email, multiple VoIP phones, video conference and many more.

KNS is your trusted partner in maritime satellite communication with industry leading technology, state-of-art design in stabilize platform and highly efficient RF design & performance.



*Design is subject to change without notice

MOST SELECTED VSAT MODEL

Most customers in worldwide maritime industry have chosen SUPERTRACK Z-Series as standard VSAT system for their vessels. The Z-Series MK4 will be a optimal satellite communication performance to your vessels.

EASY MAINTENANCE

The Z10MK4 has minimized parts and PCU integrated all electric parts in one module. This feature allows easier maintenance of operators and service providers.

GYRO FREE SUPPORTING

Z10MK4 can support your connection even the vessel does not have gyro(s) or in any case of the gyro failure. Z10MK4 will sustain your network communication with tracking performance without vessel failure status related.

COST AFFORDABLE

With all the latest innovations, SUPERTRACK Z-Series MK4 promise a product line-up which can fulfil all your needs at affordable costs.

RELIABILITY, THE BASIC VIRTUE

In the middle of sea, under various tough sea condition the most important factor or lifeline is high quality communication equipment with reliable connection, stable tracking and fast network performance. Live chatting with friends, video call with family, listening radio over IP, emergency phone calls and all kinds of communication to home-world require network sustainability with reliable equipment.

The SUPERTRACK is your reliable partner all the time.

PRODUCT KEY FEATURES

- **In-built DVB-S2X Tuner**

Carrier SNR direct tracking is available

- **Easy Maintenance with simple modular design**

All electrical control parts are integrated in one single module "PCU" for fast and easy maintenance.

- **Web interface & Remote software upgrade**

Monitoring and Control (M&C) function and firmware upgrade fully supported via web interface.

- **Graphic monitoring support**

Antenna signal strength or RSSD can be monitored through web GUI via PC and other wireless device such as tablet PC and mobile phone.

- **Wi-Fi support**

ACU can be operated by Wi-fi interface, a seamless wireless interface between user and ACU

- **Proven LEO/MEO satellites tracking algorithm**

- **Option for single cable solution between ADU and BDU**

- **SNMP support**

- **Automatic Satellite Search & Skew Control**

- **Accurate Signal Acquisition by KNS's Distinctive Algorithm**

- **Pre-programmed Satellite Database**

Editable 80 satellite data

- **Band Switch Operation**

User can switch the band between Ku to Ka via ACU / Web - Interface at below deck

Z10MK4 - DUAL

Ku / Ka BAND COMMUNICATION

SPECIFICATIONS

ABOVE DECK

Antenna Type	Dual Reflector Type
Dish Diameter	105cm (41")
Antenna Dimension	144cm(D) x 152cm(H)
Antenna Weight	112 Kg
Frequency	Ku - band TX : 14.00 ~ 14.50 GHz RX : 10.95 ~ 12.75 GHz Ka - band TX : 29.50 ~ 30.0 GHz RX : 19.70 ~ 20.2 GHz
Antenna Gain	Ku - band TX : 42.45 dBi @ 14.25GHz RX : 39.75 dBi @ 11.85GHz Ka - band TX : 47.10 dBi @ 29.75GHz RX : 43.35 dBi @ 19.95 GHz
G/T	Ku-band 17.71dB/k (in Radome) @ 30deg. Elevation angle and 11.85GHz, Clear Sky Ka - band 18.35dB/k (in Radome) @ 30deg. Elevation angle and 19.95GHz, Clear Sky
Operating Platform LNB	3 - Axis Single PLL LNB Selectable LO PLL LNB(optional)
BUC	Ku-band : 8W / Ka-band : 5W
BMIP	Included (BUC M&C Control)
Elevation Angle	-20° to +110°
Azimuth Range	Unlimited
Cross Angle	± 35°
Ship Motion	Roll : ±24° at 8-12 sec periods Pitch : ±14° at 6-12 sec periods Yaw : ±8° at 15-20 sec periods
Tracking Speed	More than 90°/sec
Polarization	Ku-band : Linear / Ka-band : Circular
Vibration Damper	Rubber Damper
Antenna Input Power	48V DC, 4.18A
Temperature	-20°C to +55°C
Humidity	Up to 100% @ 40°C

WARRANTY INFORMATION

3-year parts warranty

PACKING DIMENSION

Size	158 X 158 X 177 cm
Gross Weight	256 kg
Packed by	Wooden Crate

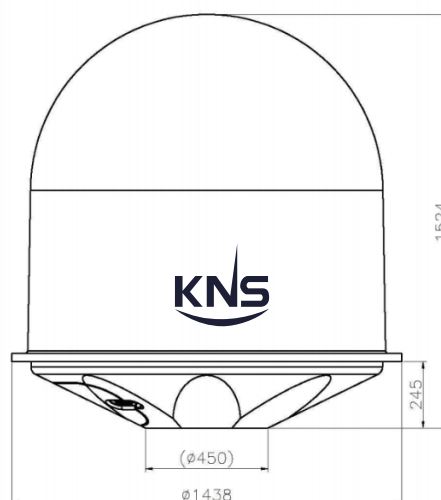
BELOW DECK

KA - 190 Antenna Control unit



ACU Size	19" Rack 1U size
Gyro Interface	NMEA 0183, Synchro, Step by Step
Input Power	100~240V AC, 8A/4A, 50~60 Hz
Out put Power	48VDC, 4.18A
External I/O	RS-232C, RS-422, USB, Mini-USB, Ethernet, Console
Monitoring	Web Interface Support (SCS)
Wi-fi Dongle	Wi-fi access is available (Optional)

RADOME DIMENSION



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The picture on the right shows our Ku-band coverage map with this antenna.

