

The new standard of satelite communication Pure Technology and performance

1000 Ku TACTICAL SATCOMS

ULV-series is a masterwork of KNS that excels in performance and sturdiness. Its high-end specification with incomparable performance is chosen by Naval Defense Force worldwide as a mission-critical solution.



* This Specification can be changed without notice.

Fully Complied with Military Standard

It is proved by MIL-STD tests that ULV-series operate without any issues even with the extreme impacts in the level of wartime situation. It shows excellent operation even in the harshest environment. Complied with MIL-STD-901D (Shock), MIL-STD-167-1A(Vibration), MIL-STD-461F (EMC), and MIL-STD-810G (Environment), ULV-series is considered as the best choice by Navies.

Extreme Performance

KNS' ULV-series guarantees the ultimate durability and reliability with the strongest system. They are controlled by direct-driven motors which have high level of responsibility and implement a detailed positioning control. With a real-time precise algorithm, ULV-series never fails the critical missions that require a high accuracy and an extreme solidity on wartime conditions.

Extended Functions for Military Application

The extended functions are configured in ULV-series for convenient operation.

- EMCON (Emergency Control): Using the EMCON switch, Tx can be muted in an emergency.
- Automatic Polarity Switching: In Ka-band, RHCP and LHCP is automatically switched depending on the carrier information.
- Web Interface: Monitoring and Control is available in Web-GUI. With Wi-Fi connectivity, no physical connection is required.



MIL-STD-901D / MIL-STD-167-1A MIL-STD-461F / MIL-STD-801G Compliance



High Tracking Speed More than 90° / sec



Dual Antenna System Support



All-in-One PCU



Rugged Structure for Military Application



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KNS

SPECIFICATIONS

ABOVE DECK

Dish Diameter	100cm(40")
Antenna Weight	184 Kg
Radome Material	Composite FRP
Frequency	TX : 13.75 ~ 14.5 GHz
	RX : 10.7 ~ 12.75 GHz
Antenna Gain	TX : 42.1 dBi @ 14.25 GHz
	RX : 40.8 dBi @ 12.50 GHz
G / T	20.11 dB/K @ 30deg. Elevation angle and 12.50GHz, Clear Sky
Operating Platform	4 - Axis (Includ skew control)
BUC	8W/16W/25W(optional)
LNB	Universal 4LO PLL LNB
Polarization	Linear
	(Automatic Skew Control)
Elevation Angle	-15° to +110°
Azimuth Range	Unlimited
Cross Angle	± 35°
Tracking Speed	More than 90°/sec
Ship Motion	Roll : $\pm 24^{\circ}$ at 8-12 sec periods
	Pitch : ±14° at 6-12 sec periods
	Yaw : $\pm 8^{\circ}$ at 15-20 sec periods
Vibration Damper	Wire Rope
Temperature	-30°C ~ +55°C
Input Power	28V DC
Power Consumption	1200W max.
Communication to ACU	RS-422 Serial Communication

BELOW DECK

0-1

ANTENNA CONTROL UNIT (ACU)

19" Rack 1U size
NMEA 0183, Synchro, Step by Step
85~254V AC, 12A, 47~63Hz
RS-232C, RS-422, Mini-USB,
Ethernet, Console
Web Interface Support (SCS)
Wi-Fi access is available (Optional)

PACKING DIMENSION

Size Gross Weight Packed by 168 X 168 X 174 cm 378 kg Wooden Crate

WARRANTY INFORMATION

3-year parts, 1-year labour warranty

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