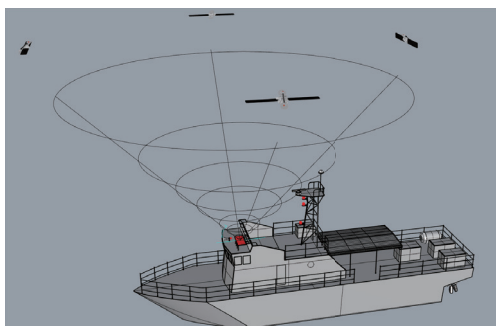
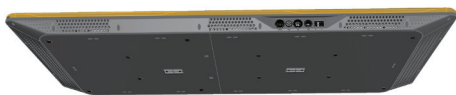
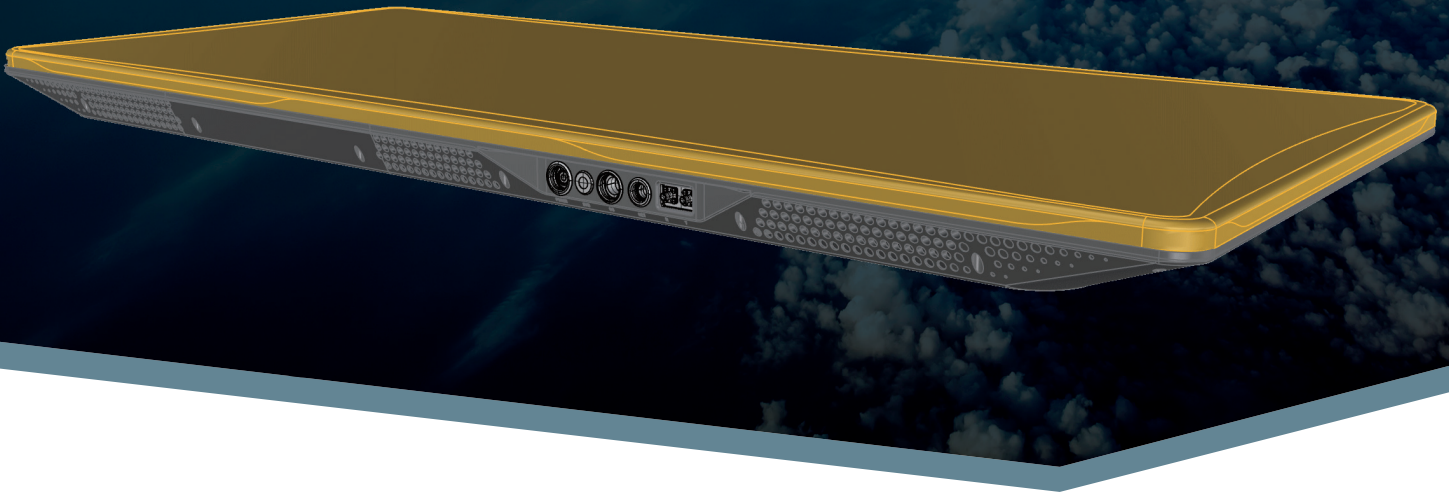


OTM Phased Array Antenna

Alpha2 Jumbo ESA

Ku Band Antenna



Main Features



Anywhere

Alpha2 Jumbo ESA ensures secure communication services without space and time constraints. Alpha2 Jumbo ESA satisfies the frequency bands available for GEO/MEO/LEO.



High Reliability

ESA beam tracking technology provides OTM capabilities to maintain connection while moving. GK ESA antennas provide fast beam switching and satellite to satellite switching services.



Strong Durability

Alpha2 Jumbo ESA is light but sturdy composition and shock-resistant, so it can be used in marine environments. IP66 waterproof enables marine services.



No mechanical break down

Alpha2 Jumbo ESA is light and easy to install, so convenient to control. No mechanical break down because Alpha2 Jumbo ESA does not use motor and BUC, and ACU board is built in.



Ku Band OTM User Terminal

Model Name	Konet Alpha2 Jumbo (GU440)
Operrating Frequency Range	TX: 13.7 - 14.5GHz / RX: 10.7 - 12.75GHz
Scanning Range	Azimuth: 0° ~ 360° Elevation: 20° ~ 90°
EIRP (typical)	Linear Pol: ≥49dBW@0°@14.1GHz Circular Pol: ≥47dBW@0°@14.1GHz
G/T(typical)	≥15dB/K@0°@11.7GHz@80K
Polarization	Linear H/V or LHCP/RHCP Pol
Cross Polarization	≤30dB
Boot Pointing Time	≤3 min
Vehicle	OPEN AMIP Support
Marine	OPEN AMIP Support
Pol Switching Time	<0.5ms
Beam Switching Time	≤0.3ms
Beam Width	TX 2.5°@90° / RX 2.4°@90°
Modem	In-built Option - Direct Board, Gilat Board, UHP Board (can be customized)

Interface Features

Interface Ports	Power BTN, STATUS LED, DC Input, NET x 1
Communication Interface	Ethernet, WiFi

Physical Dimensions

Size (W x D x H)	1450mm x 600mm x 70mm
Weight	≤30kg

Power Supply Requirement

Rated Voltage	28V(19V ~ 32V)
Power Consumption	≤750W(Peak)

Environment Parameters

Operating Environment Temp	-40°C ~ +60°C
Storage Temp	-55°C ~ +70°C
Water-proof	IP66

Frequency Converter Parameters

Freq Local Oscillator	Receive : L-Band 10.7Ghz ~11.7Ghz(9.75Ghz) H-Band 11.7Ghz~12.75Ghz(10.6Ghz) Transmit : 13.7Ghz ~ 14.5Ghz(12.8Ghz)
10Mhz Reference	Tx port requires 10Mhz.
Manufacturer	GLOBAL KONET Co., Ltd.

