

Alpha2 ESA

Ku Band Antenna OTM Phased Array Antenna



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Main Features



Anywhere

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



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



No mechanical break down

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

Alpha2 ESA

Full-Duplex Electronic active beam Steering Antenna

Ku Band OTM User Terminal

Model Name	Konet Alpha2 (GU420)
Operaring Frequency Range	TX: 13.7 - 14.5Ghz / RX: 10.7 - 12.75Ghz
Beam Scanning Range	Azimuth: 0° ~ 360° Elevation: 30° ~ 90°
EIRP (typical)	Linear Pol: ≥49.5dBW@0°@14.1Ghz Circular Pol: ≥47dBW@0°10@14.1Ghz
G/T(typical)	≥ 12.1dB/K@0°@11.7Ghz@80K
Modem	In-built Option
Polarization	Linear H/V and Circular LHCP/RHCP Support
Cross Polarization	≥30dB
Boot Pointing Time	≤3 min
Vehicle/Marine	OPEN AMIP Support
Pol Switching Time	<0.5ms
Beam Switching Time	≤0.3mS

Interface Features

Interface ports	Tx SMA port, Rx SMA port, DC port, Lan Port
Communication Interface	Ethernet, Wifi(option)

Physical Dimensions

Size (W x D x H)	980 x 602 x 70mm(36.58 x 23.7 x 2.76inch)
Weight	≤25kg(55.12lbs)

Power Supply Requirement

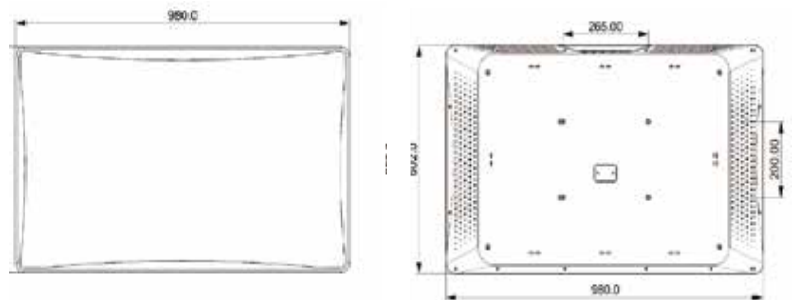
Rated Voltage	24V(19V~31V)
Power Consumption	≤ 550W(Max)

Environment Parameters

Operating Enironment Temp	-40°C ~ +55°C
Storage Temp	-55°C ~ +70°C
Water-proof	IP66
Military Standard	MIL-STD-810 (option)

Frequency Converter Parameters

Freq Local Oscillato	Rx : 9.75Ghz, 10.6Ghz, 11.3Ghz Tx : 12.8Ghz, 13.03Ghz
10Mhz Reference	Tx port required
Manufacturer	GLOBAL KONET Co., Ltd.



OTM Phased Array Antenna

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