

Power Phased Array Antenna

Konet GA24

Ka Band Antenna



Main Features



Anywhere

GA24 ESA ensures secure communication services without space and time constraints.
GA24 ESA satisfies the frequency bands available for GEO/MEO/LEO.



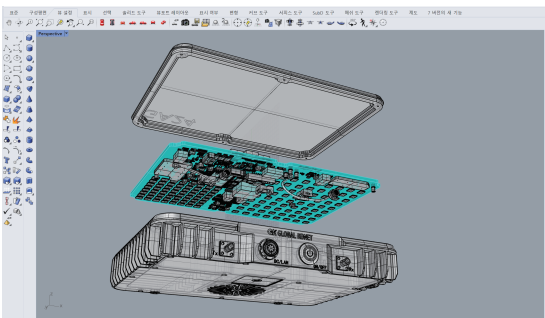
High Reliability

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

Alpha 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

GU24 is light and easy to install, so convenient to control.
No mechanical break down because Alpha ESA does not use motor and BUC, and ACU board is built in.

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Antenna

Antenna Type	communication active phased array antenna
Frequency Band	KA
Frequency Range	Receiving antenna: 17.7–21.2 GHz Transmitting antenna: 27.5–31.0 GHz
Polarization Mode	Linear polarization or LHCP/RHCP
Scanning Angle	Azimuth 0°–360°; elevation 30°–90°
G/T	$\geq 3\text{dB/K}@90^\circ@19.5\text{GHz}@60\text{K}$
EIRP	$\geq 29\text{dBW}@90^\circ@29.5\text{GHz}$
Beam Width	TX: $7.0^\circ@90^\circ$ RX: $8.0^\circ@90^\circ$

Tracking

Tracking Angular Velocity	100°/s
Tracking Accuracy	$\leq 0.2^\circ$
Initial Dynamic Satellite Acquisition Time	$\leq 3\text{ min}$
Initial Static Satellite Acquisition Time	$\leq 30\text{ sec}$
Re-acquisition Time After Signal Lost	$< 8\text{ sec}$ (blocking time $\leq 5\text{ min}$)
IF Interface	SMA

Physical and Power Supply Characteristics

Dimensions	$\leq 330\text{ mm} \times 245\text{ mm} \times 40\text{ mm}$
Weight	2.5 Kg
Power Supply Input	12 V
Power Consumption	$\leq 40\text{ W}$ (peak power consumption)

Environmental Characteristics

Operating Ambient Temperature	$-40^\circ\text{C} \sim +60^\circ\text{C}$
Storage Ambient Temperature	$-55^\circ\text{C} \sim +70^\circ\text{C}$
Waterproof Grade	IP66
Relative Humidity	10%–90%
Wind Resistance	40 m/s

