ND SAT COM

INSTALLING RELIABILITY

KA2GO TERMINAL

eutelsat

type approved for KA-SAT

The most exact and robust terminal which can be used for the EUTELSAT NewsSpotter service. EUTELSAT has stated an pointing accuracy of ≤0.2° which is by far better than competition (mostly ≤0.4°). This results in 3 dB more transmit power. This margin is essential for high data rates during bad weather transmissions.

This small and lightweight antenna terminal can be mounted on all passenger vehicles using commercially available roof mounts. Connecting only one power cable it can be set operational by just pressing one button.

The antenna comprises a high precision offset Ka-Band reflector, GPS receiver and compass enabling autopointing and auto-network acquisition. In addition to the antenna, the terminal integrates a KA-SAT modem, antenna controller and IP router which can connect smart phones or tablets to the system to control it from inside the car.

In order to minimise the vehicle modification encoders can be integrated inside the terminal as well. The communication for the Ka2Go terminal as well as for the encoder can be done via the LAN interface or via Wi-Fi.

PLUG AND PLAY

- Go live quickly, from stowed to operational within 180 sec
- Automatic antenna pointing – no special knowledge required
- Easy to use Web interface through mobile device
- Integrated IP router

KEY FEATURES

- Best pointing in the market – accuracy of ≤0.2° results in 3 dB more transmit power
- Fast and stable transmissions – up to 10 Mbit/s throughput, even in bad weather
- All hardware integrated within terminal
- EUTELSAT NewsSpotter service compatible
- Aerodynamic casing for high speed travel
- eTRIA transceiver with high durability
- Easy vehicle mounting
- Terminal casing optional
- Built-in audio/video encoders available
- Optional with LTE switch-over capabilities

TECHNICAL SPECIFICATIONS
KA2GO – TERMINAL

ANTENNA SPECIFICATIONS

Antenna Diameter	0.89 m
Antenna Pointing (SKYWAN, DVB carrier)	Automatic Pointing System (APS) based on ND SATCOM's sophisticated and field proven algorithm and sensors for one button operation
Azimuth Travel	±190°
Elevation Travel	5° to 78°
Drive Rates	Variable drive speed up to 10 °/sec
Reflector	Single piece, prime focus, offset feed

PHYSICAL SPECIFICATIONS

Dimensions (L x W x H)	138.5 x 95 x 35 cm (without cover) 159 x 101 x 40 cm
Weight	approx. 75 kg fully operational, depending on options

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	-30 °C to +50 °C (optionally up to +60 °C)
Survival Temperature	-40 °C to +70 °C
Humidity	0 to 100 %
Operational Wind Speed	75 km/h
Rain	Survival in heavy rainstorm
Survival Wind Speed	130 km/h deployed, 180 km/h stowed
Solar Radiation	1,000 W/m²

RF SPECIFICATIONS

BUC Power	4 W
Tx Frequency Range	29.5 – 30 GHz circular
Rx Frequency Range	19.7 – 20.2 GHz circular
Tx Antenna Gain@29.75 GHz	45.8 dBi
Rx Antenna Gain@19.95 GHz	42.4 dBi
Max allowed EIRP	29.3 dBW/40 kHz
G/T	19.9 dB/K@19.95 GHz, 20° Elevation
EUTELSAT	EESS 502 Standard M Pointing error ≤0.2°

INTERFACES

Power	26 V DC ±2 %
Ethernet	LAN/WLAN interface
Power Consumption	min. 90 W, max. 470 W

VSAT SPECIFICATIONS

Modem	ViaSat Surfbeam2 Satellite Modem
RF Unit	ViaSat Surfbeam2 enterprise eTRIA

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Oct. 2020, Version A.10.