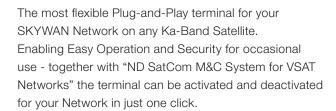


SKYRAY Ka4Gov



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. For this most exact and robust terminal EUTELSAT has stated an pointing accuracy of <=0.2° and pointing stability during high winds up to 75km/h. This results in 3 dB more transmit power than other terminals. This margin is essential for high data rates during bad weather transmissions.

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 SKYWAN 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 video encoders can be integrated inside the terminal as well. The communication for the Ka4Gov terminal as well as for the video 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 specia knowledge required
- Easy to use Web interface through mobile device
- Integrated SKYWAN 5G Mini and 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 20 Mbit/s throughput, even in bad weather
- All hardware integrated within terminal
- Type approved for EUTELSAT KA-SAT
- Aerodynamic casing for high speed travel
- Different power classes for Ka-Band BUCs available
- Easy vehicle mounting
- Built-in audio/video encoders available
- Optional with LTE switch-over capabilities



TECHNICAL SPECIFICATIONS SKYRAY KA4GOV – TERMINAL

ANTENNA SPECIFICATIONS

Antenna Diameter 0.89 m

Antenna Pointing
Antenna Pointing
(SKYWAN)

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



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 5 W up to 25 W

Tx Frequency Range 27.5 – 30 GHz circular

Rx Frequency Range 17.7 – 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

EUTELSAT EESS 502 Standard M Pointing error ≤0.2°

19.9 dB/K@19.95 GHz, 20° Elevation

INTERFACES

Power 26 V DC ±2 %

Ethernet LAN/WLAN interface

Power Consumption min. 90 W, dependent on Transceiver Version

VSAT SPECIFICATIONS

Modem SKYWAN 5G Mini











HEADQUARTERS

ND SatCom GmbH Graf-von-Soden-Strasse 88090 Immenstaad Germany

PHONE: + 49 7545 939 0 FAX: + 49 7545 939 8780 E-Mail: info@ndsatcom.com CHINA

ND SatCom (Beijing) Co. Ltd. PHONE: +86 10 6590 6869/6878 MIDDLE EAST

ND SatCom FZE PHONE: +971 4886 5012