

C BAND UAV DATA LINK



GENERAL DESCRIPTION

C Band UAV Data Link is a compact and high data rate digital datalink for UAV Intelligence, Surveillance and Reconnaissance missions. For downlink, video and telemetry data can be multiplexed inside the airborne module and demultiplexed by the ground module to be displayed on the user interface of the operator.

Compact size and high efficient make C Band UAV Data Link perfect choice for Tactical, MALE and HALE UAVs. System has fully transparent 10/100 Base-T Ethernet and RS 232/422/485 data interfaces. Data security is satisfied via AES 256 encryption algorithm. H.264 Video encoder is also available as an option. Reed Solomon (RS), Convolutional and LDPC error correction encoding and decoding capability highly improves receiver sensitivity.

C Band UAV Data Link can be operated full-duplex in lower and upper C Band up to 10 Mbps data rate. Higher data rates can also be offered optionally for specific applications. Modulation type can be selected in between CPFSK, MSK and PSK.



With Autotracking Antenna System,
the range can be more than 200 km.

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Weight (g)

870

Dimensions (cm)

12.1 x 7.6 x 8

Frequency

Lower and Upper C Band

RF Output Power

5 W / 10 W

Data Rate

Up to 10 Mbps

Modulation

CPFSK / PSK

ECCM (Optional)

FHSS / DSSS

FEC

Reed Solomon (RS) and Convolutional, LDPC

Data Encryption

AES 256

Data Interfaces

Ethernet, RS 422/485, RS 232

Video Encoding

H 264 (SD and HD 1080p60)

Power Consumption

< 80 W (10 W Output)

Environmental Tests

MIL-STD-810G

EMI / EMC

MIL-STD-461F

KEY SPECIFICATIONS

- Full Duplex Communication
- High Efficiency
- Up to 10 Mbps Data Rate
- Low Power Consumption
- Easy Integration
- Light Weight
- Compact Size



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