LS BAND
UAV DATA LINK 2W/5W/10W

GENERAL DESCRIPTION

LS BAND UAV 2W Data Link is a compact, 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.

LS BAND UAV 2W Data Link can be operated full duplex in L Band and S Band up to 10 Mbps data rate. Higher data rates can also be offered as an option for specific applications. Modulation type can be selected in between CPFSK, MSK and PSK.

Compact size and low power consumption allow airborne terminals to be used in mini, midi and tactical UAVs. Having approximately the same dimensions, ground module can also be used in mobile terminals.

LS BAND UAV 2W Data Link has fully transparent 10/100 Base-T Ethernet and RS 232/422/485 data interfaces. H.264 Video encoder is also available optionally. It can directly be operated with any IP camera. Data security is defisitasvia AES 256 encryption algorithm. Reed Solomon (RS) and Convolutional and LDPC error correction encoding and decoding capability highly improves receiver sensitivity for different data rates.

LS BAND UAV 10W Data Link is a compact, high data rate digital datalink for UAV Intelligence, Surveillance and Reconnaissance missions. It is a module solution which can handle replaceable uplink and downlink data together. 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.

LS BAND UAV 10W Data Link can be operated full-duplex in lower and upper L/S Band up to 10 Mbps data rate. Higher data rates can also be offered as an optional for specific applications. Modulation type can be selected in between CPFSK, MSK and PSK.

Compact size and high efficiency make LS BAND UAV 10W Data Link a 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 defisitasvia 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.

Weight (g)
2W	**315**
5W-10W	**870**

Dimensions (cm)
2W	**8.2 x 6.1 x 3.6**
5W-10W	**12.1 x 7.6 x 8**

Frequency
2W	**S Band**
5W-10W	**L Band, S Band**

RF Output Power
2 W / 5 W / 10 W

Data Rate
Up to 10 Mbps

Modulation
2W	**CPFSK / PSK**
5W-10W	**CPFSK / MSK / PSK**

ECCM (Optional)
FHSS / DSSS

FEC
2W	**Reed Solomon (RS) and Convolutional**
5W-10W	**Reed Solomon (RS) and Convolutional LDPC (0)**

Data Encryption
AES 256

Data Interfaces
Ethernet, RS 422/485, RS 232

Power Consumption
2W	**< 15W**
5W-10W	**< 70 W (10 W Output)**

Video Encoding
5W-10W	**H 264 (SD and HD 1080p60)**

Environmental Tests
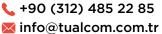**MIL-STD-810G**

EMI / EMC
MIL-STD-461F

KEY SPECIFICATIONS

- High Efficiency
- Up to 10 Mbps Data Rate
- Low Power Consumption
- Easy Integration
- Light Weight
- Compact Size
- Integrated LNA and PA

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

TUALCOM ELEKTRONİK A.Ş.

📞 +90 (312) 485 22 85
✉ info@tualcom.com.tr
www.tualcom.com.tr