

# HIGH DATA RATE L/S BAND DATALINK

## Type TUALLINK-LS-10W



### KEY SPECIFICATIONS

- High Efficiency
- Up to 10 Mbps Data Rate
- Low Power Consumption
- Easy Integration
- User friendly Interface
- Low Weight
- Compact Size
- Above 200 Km Communication Range

TUALLINK-LS-10W is a compact, high data rate digital data link 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.

TUALLINK-LS-10W 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 optionally for specific applications. Modulation type can be selected in between CPFSK, MSK and PSK.

Compact size and high efficiency make TUALLINK-LS-10W 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 optionally. Reed Solomon (RS), Convolutional and LDPC error correction encoding and decoding capability highly improves receiver sensitivity.

### TECHNICAL SPECIFICATIONS

Frequency Range:	L Band (1.70-1.85 GHz), S Band (2.2-2.5 GHz)
RF Output Power:	5W / 10W
Modulation Type:	CPFSK / MSK / QPSK / BPSK
FEC:	Reed Solomon(RS), Convolutional, LDPC(O)
Data Encryption:	AES 256
Power Consumption:	<50W (10W Output)
Weight:	806 g
Dimension:	14.4 x 9 x 4.7 cm
Data Rate:	Up to 10 Mbps *
Video Encoding:	H 264 (1 SD & 1 HD 1080p60)
Data Interface:	10/100 Base-T Ethernet, RS 422/485 RS 232, RS 422/485

\* Contact TESTEM for Higher Data Rate Requirement