

FDMLS 10W DATA LINK

GENERAL DESCRIPTION

FDMLS 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.



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Compact size and high efficiency make FDMLS 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 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.

KEY SPECIFICATIONS

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

FDMLS 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.

TECHNICAL SPECIFICATIONS

Frequency Range	L Band, S Band
Data Rate*	Up to 10 Mbps
RF Output Power	5 W / 10 W
Modulation Type	CPFSK / MSK / PSK
ECCM (Optional)	FHSS or DSSS
FEC	Reed Solomon (RS) and Convolutional, LDPC (0)
Data Encryption	AES 256
Data Interface	Ethernet RS 422/485 RS 232
Video Encoding	H 264 (1 SD and 1 HD 1080p60)
Power Consumption	< 70 W (10 W Output)
Dimensions (cm)	14.4 x 9 x 4.7
Weight	806 g

* Contact TUALCOM for higher data rate requirements