

## FDMC DATA LINK

### GENERAL DESCRIPTION

FDMC 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.



FDMC Data Link

Compact size and high efficiency make FDMC 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.

### KEY SPECIFICATIONS

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

FDMC 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.

### TECHNICAL SPECIFICATIONS

<b>Frequency Range</b>	Lower and Upper C Band
<b>Data Rate*</b>	Up to 10 Mbps
<b>RF Output Power</b>	5 W / 10 W
<b>Modulation Type</b>	CPFSK, MSK, PSK
<b>FEC</b>	Reed Solomon (RS) and Convolutional, LDPC (0)
<b>ECCM (Optional)</b>	FHSS or DSSS
<b>Data Encryption</b>	AES 256
<b>Data Interface</b>	Ethernet RS 422/485 RS 232
<b>Video Encoding</b>	H 264 (1 SD and 1 HD 1080p60)
<b>Power Consumption</b>	< 80 W (10 W Output)
<b>Dimensions (cm)</b>	14.4 x 9 x 4.7
<b>Weight</b>	806 g

\* Contact TUALCOM for higher data rate requirements