



C-Band UAV Data Link



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C-Band UAV Data Link is LOS air-to-air and air-to-ground real time communication system that transmit UAV control and high data rate real-time video data with highly reliable EW protection.

High Resolution Video and Control Data Link

Meteksan Defence has developed a LOS bidirectional data link for communication between MALE/HALE UAV platforms and ground systems in 200 km range.

C-Band UAV Data Link can compress in H.264 format and transmit UAV payload data and health/status information to ground control station and command/control information vice versa. C-Band UAV Data Link System that is operating in C-Band (4.4 – 5.85 GHz) has two main parts as Air Data Terminal (ADT) and Ground Data Terminal (GDT).

C-Band UAV Data Link that is designed to be competitive with similiar systems in the market targeting the main goals as easily adaptation for various platforms and cost effectiveness in procurement and maintenance.



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UAV Data Link



Innovative and Modular Design

All subunits (modem, RF, Video and signal processing unit, carbon fiber composite antennas, radom and control units) are developed and produced by Meteksan Defence.

Antennas are designed according to the suitable gain parameters achieved by link budget analysis. Reflector antenna surface is manufactured with carbon fiber composite so significantly decreasing the antenna weight. Air vehicle antenna radom is developed for resistance to airborne environmental conditions.

Key Features



Secure and realtime communication



SWAP design (Airborne units total less than 3 kg, total power consumption less than 150W)



Compliant to MALE/HALE airborne environmental conditions



Remote video transfer to mobile terminals



Modular design adaptable for different platforms



Multi antenna support



Cost effective and competitive product

High Speed and Secure Communication

Data Rate: Unidirectional 10 Mbps, total 20 Mbps

H.264 video compression (simultaneously up to 4 analog and up to 2 HD/SDI video support)

TRANSEC: DSSS and FHSS techniques

COMSEC: AES-256 and national/custom crypto support

Special coding techniques (FEC) supporting different rates (1/2, 2/3, 4/5 etc.)

Technical Properties

- Data rate: 10/20 Mbps
- Range: min. 200 km LOS PTP
- Frequency: C-Band (4.4 – 5.85 GHz)
- Ethernet based IP interface
- H.264 video compression
- SwaP (Small volume, weight and Power) design for airborne platforms
- User friendly web based control interface
- Automatic Antenna Control Ground Unit

Military Standards

- MIL-STD-810
- MIL-STD-461
- MIL-STD-704