

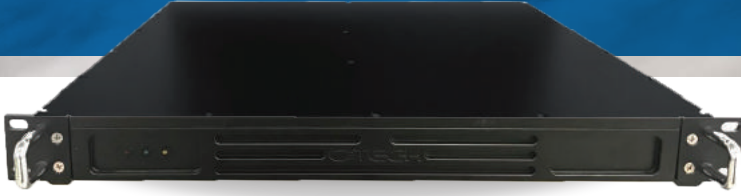
▶ “SECURE AND ROBUST POINT TO POINT COMMUNICATION LINK”



Airborne Modem

UFUK-C10

LINE of SIGHT (LOS) COMMUNICATION FOR AIRBORNE PLATFORMS



Ground Modem

CTECH provides end to end LOS communication solution for UAVs. The solution consists of antenna, RF components and modem on the air platform and paired equipment on the ground segment. CTECH LOS solution provides point-to-point full-duplex communication link. The uplink maintains real-time control and data whereas the downlink transfers payload to the ground segment. Embedded video encoder in the modem allows HD and SD video transmission simultaneously.

DESCRIPTION/FEATURES

- Operating Frequency: C Band
- Data Rates: Up to 10 Mbps
- H264 simultaneous HD/SD Video Compression
- COMSEC: AES-256

CTECH UFUK-C10 Communication Solution is suitable for military, government and civilian applications, including;

- Command & Control
- Intelligence, Surveillance, Reconnaissance
- Electronic warfare
- Law Enforcement
- Communication
- Crop and Disaster Management
- Search and Rescue

LOS Range: 200km +



Variable Data Rate 500kbps-10Mbps

MODEM

DC Power Input:	28VDC nominal, 12-36VDC
DC Power Standard:	MIL-STD-704F (airborne), MIL-STD-1275D(ground)
DC Power Consumption:	max <100W
Operating Temp:	-20°C - +55°C
Standards:	MIL-STD-810F, MIL-STD-461E
LOS Range:	200km+
Altitude:	30000Feet
Airborne Dimension:	285mm X 235mm X 85mm
Airborne Modem Weight:	4kg
DataRate:	500kbps-10Mbps
Modulation:	QPSK, 8PSK, 16APSK, 32APSK
Data Interface:	3-channel RS232/RS422 selectable serial interface for ReturnLink(air-to-ground), RS232@max 115200bps, RS422@max 1Mbps 3-channel RS232/RS422 selectable serial interface for CommandLink(ground-to-air), RS232@max 115200bps, RS422@max 1Mbps 1-channel Gigabit Ethernet interface
GPS Interface:	1-channel RS232/RS422 selectable serial interface
CLI Interface:	2-channel RS232/RS422 selectable serial interface for control&status of modem, RS232@max 115200bps, RS422@max 1Mbps



GUI/Maintenance Interface:	1-channel Gigabit Ethernet interface with SNMPv3
HD Video Interface:	Digital HD-SDI 2 channel, 2xHD-BNC connectors
SD Video Interface:	Analog Composite 4 channel, 4xHD-BNC connectors
Video Encoding:	H264 Main profile, Up to 2xHD simultaneously Up to 4xSD simultaneously 1xHD+2xSD simultaneously
Video Encode Rate:	HD: 512kbps-20Mbps selectable SD: 512kbps-10Mbps selectable Total video encode rate <20Mbps
HD Video Formats:	1080i60, 1080i50, 1080p30, 1080p25, 1080p24, 720p60, 720p50
SD Video Formats:	NTSC, PAL
Audio Interface:	1-channel Stereo
Audio Compression:	AAC-LC
Audio Bitrate:	192000bps or 128000bps selectable

RF Front End

UpLink Frequency:	5250 MHz - 5850 Mhz
DownLink Frequency:	4400 MHz - 4950 MHz
RF Output Power:	10W (40dBm)
RF FE Power Consumption:	< 100 W
RF FE Operation Temperature:	-40°C - +55°C

H264 Video Encoding



Multiple Data Interfaces





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