



Airborne Technologies

OQPSK/BPSK Compact Data Link

D-ATKS System

Wide Band Digital Tactical Link

IPR compact size D-ATKS Compact Data Link system, is specifically designed for Wide Band communications purposes all kind of Airborne Platforms: Rotary – Fixed Wings, Manned or Unmanned

Reliable OQPSK/BPSK data transmissions, support ISR missions and more in Line of Sight conditions (LoS) over 200 Km.

The system is engineered to work on a wide frequency range upon specific requests

Based on a LAN Ethernet interface, it enables the streaming of commands over IP, telemetries, GPS positioning, controlling data and more

Includes bi-directional full duplex symmetrical capabilities (Uplink/Downlink)

According to the modulation scheme, it is capable of an uplink/downlink data speed up to 20Mbit/s

Data transmission is AES standard @ 256 bit Encrypted

Main Sub-assemblies:

- ATD Onboard Modem
- Airborne Omni Antenna (2dBi)

Reliable personalized solutions

All critical technologies' parts are developed produced and integrated by IPR providing an outmost degree of customization: systems can be tailored to end users' specific layout and weight requirements

Technical Features

Electrical

Interface:

LAN Ethernet 10/100 Base-T/Serial interface

Frequency Band:

UHF - S - C Available on request

TX/RX Modulation:

OQPSK/BPSK

Other on request

Data Speed:

Downlink: Up to 20 Mbits

Uplink: Up to 20 Mbits

Receiver Sensitivity:

≥ -95 dBm

10 Mbits

RF Output Power:

+40 dBm

±1 dBm

Spread Spectrum:

Option available uplink

Supply Voltage:

18 to 32 VDC

Other available on request

Encryption:

AES @ 256 bit

Video Inputs:

Composite NTSC-PAL

SD/HD SDI

Mechanical

Weight:

~3,5 Kg

Environmental

Storage Conditions:

-55° / +85°

Operating Conditions:

-40° / +70°

RTCA-DRO160