## Video and Data Transceiver

**DL-5000** 



The DL-5000 is an Internet Protocol (IP) radio ideal for high data rate applications including the transmission of high definition video.

The product is specifically optimised for UAV applications in terms of mass, power, volume, heat dissipation and feature set. Several radios may be networked together enabling a distributed payload/platform control and display capability, allowing system integrators to implement a flexible system architecture.

The radio provides several advanced optional features such as ranging, mono-pulse tracking information and high transmission power. The DL-5000 complements Tellumat's extended family of UAS-related products, which includes avionics, tracking and antenna positioning solutions and ground stations.

## **FEATURES**

Select up to 4 video inputs

Stream 2 HD channels simultaneously

Multi-rate H 264 video encodino

Low latency design (less than 200 ms)

High bandwidth, video streaming over Ethernet

Integrated encryption

Built-in ranging function

STANAG 4586 compliant

## **BENEFITS**

Tellumat

Compact and lightweight (2.2 kg excl. heat sink)

IP based for range extension and remote operations

Networkable

Long range line of site

Installation possible in any orientation

Heat sinks are configurable to client specification

Non-aligned manufacturer, no HAR restrictions

## **PERFORMANCE**

Frequency Band C-Band

Vlodulation Constant envelope DSSS (up)

Narrow band GMSK (down)

Max Data Rate (Gross) 16 Mbps (upgradeable to 24 Mbps)

Bit Error Rate Better than 10<sup>-6</sup> at specified sensitivity

Forward Error Correction Reed-Solomon

Transmitter Characteristics

Number of Channels 6

Output Power (Max) +38 dBm

Receiver Characteristics

Number of Channels 6

Dynamic Range -70 dB

Sensitivity -88 dBm (video), -92 dBm (data

**INTERFACES** 

√ideo 2x HD SDI up to 1080p30

2x CVBS SD selectable

Data / Control / Status 6x 115 Kbps RS-422 / RS-232 Selectable (asynchronous)

Ethernet 1x 100BASE-T (with GbE option available)

PHYSICAL CHARACTERISTICS

Mass 3.0 kg airborne unit

Dimensions 265 mm x 180 mm x 62 mm (H x W x D)

Mounting Integrated mounting points

POWER REQUIREMENTS (AIRBORNE UNIT)

Input Voltage Nominal 28 V dc <150 W

Power Consumption <150W

**OPTIONAL** 

Tracking Antenna System Azimuth and elevation (options available)

**ENVIRONMENTAL (AIRBORNE AND GROUND UNITS)** 

Temperature Range -40°C to +65°C

General MIL-STD-810G

Registration Number: 1996/00957/07 ©2013

EMC MIL-STD-461D / MIL-STD-462D







