muLTElink915

Multiple Link Airborne Radio System

Overview

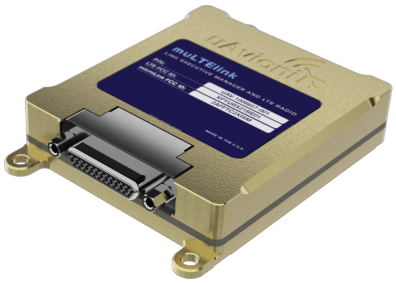
muLTElink is a multiple link airborne radio system that combines a DO-377A Link Executive Manager (LEM) with integrated LTE and ISM command and control (C2) radios plus support for an external DO-362A C-Band C2 radio. muLTElink connects to an autopilot via a transparent RS232 serial interface. muLTElink is plug and play with the George G3 autopilot and the SkyLink5060 C-Band CNPC radio, and it streamlines platform integration by automatically registering aircraft with SkyLine Cloud Managed BVLOS service.

Features

- Transmits and receives simultaneously on all available links, offering dual- or tri-band path diversity.
- Integrated airborne Link Executive Manager (LEM) that complies with DO-377A.
- Transparent, protocol agnostic, RS232 autopilot telemetry interface.
- Integrated Global LTE Cat 1 radio exclusively for Command Non-Payload Control (CNPC).
- Integrated SkyLink915 ISM airborne radio system (ARS).
- Optional external SkyLink5060 or SkyLink5060Micro C-Band ARS.
- Integrated eSIM with out of the box Hologram global service (with optional nanoSIM card support).
- Automatic aircraft registration with SkyLine Cloud Managed BVLOS Service.
- Ethernet reprogramming and ARS configuration interface
- Environmental DO-160G
- Software DO-178C Level C
- Complex Hardware DO-254 Level C

Regulatory

- microLink FCC 47 CFR Part 15.247
  ID: 2AFFTC2XISM
- LTE FCC ID: XPYUBX21BE01



Technical Specifications

Parameter	Value
Input Voltage / Power	9-31 VDC 1.7 W Average
Size	14 x 51 x 71 mm
Weight	65 grams
Operating Temp	-45 to 70°C
microLink Radio	
Band	902-928 MHz ISM Band
Architecture	2X MIMO Radio Diversity
Transmit Power	1W (4W IEIRP)
Spreading	Code and Frequency
Bandwidth	200 kHz
Sensitivity	-118 dBm
LTE Radio	
Service	Global LTE Cat 1
LTE FDD Bands	1, 2, 3, 4, 7, 8, 12, 13, 18, 19, 20, 26, 28
LTE TDD Bands	38, 39, 40, 41
SIM	Global IoT eSIM
External Interfaces	
Timing/Position	
Interface	RS-232 115200 bps
Position Protocol	NMEA 0183
UTC	1 PPS Time Pulse
External CNPC User	
Interface	RS-232 57600 bps
Protocol	Binary, Transparent
External CNPC Control	
Interface	RS-232 115200 bps
Protocol	UCP
Autopilot Telemetry	
Interface	RS-232 57600 bps
Protocol	Binary, Transparent
Environmental	
DO-160G	Temperature Cat B2

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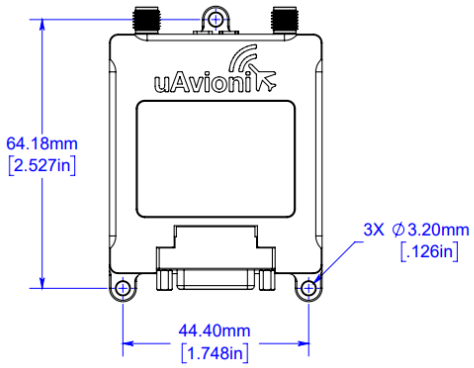
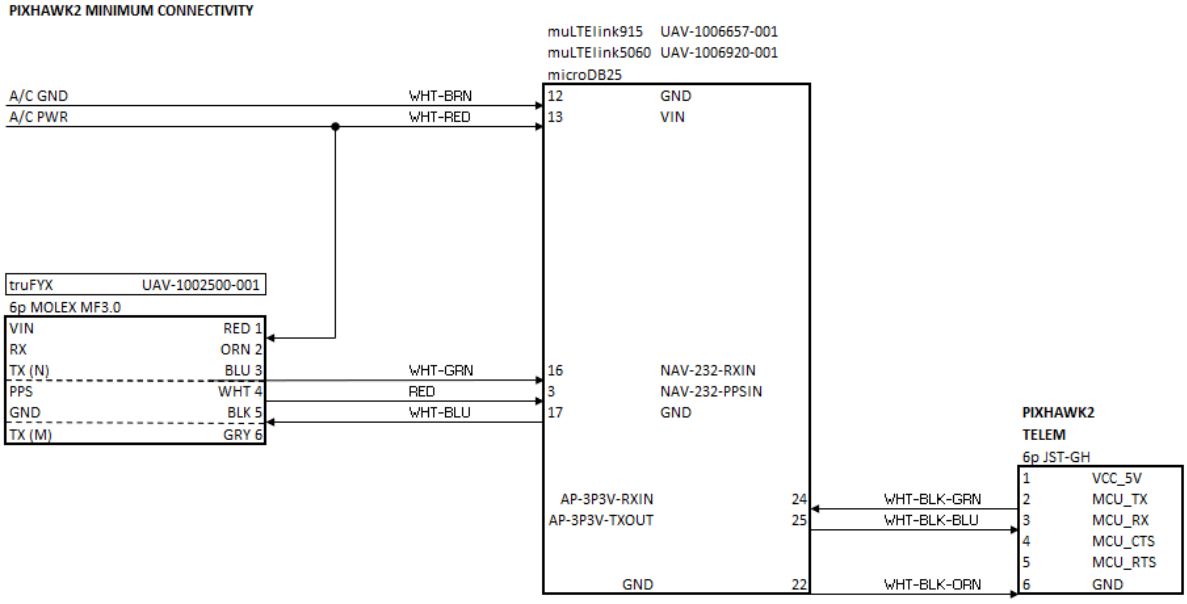
Mechanical Specification



Electrical



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