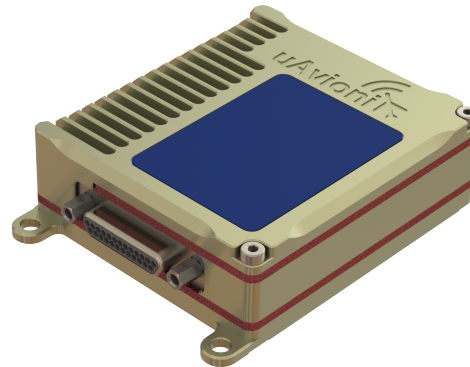


Overview

muLTElink is a multiple link airborne radio system that combines a DO-377A Link Executive Manager (LEM) with integrated LTE and C-Band command and control (C2) radios plus support for an external ISM 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 SkyLink915 ISM 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 SkyLink5060Micro C-Band airborne radio system (ARS).
- Optional external SkyLink915 ISM Band airborne radio system (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: 2AFFTC2XCP0 (in progress)
- LTE FCC ID: XPYUBX21BE01

Technical Specifications

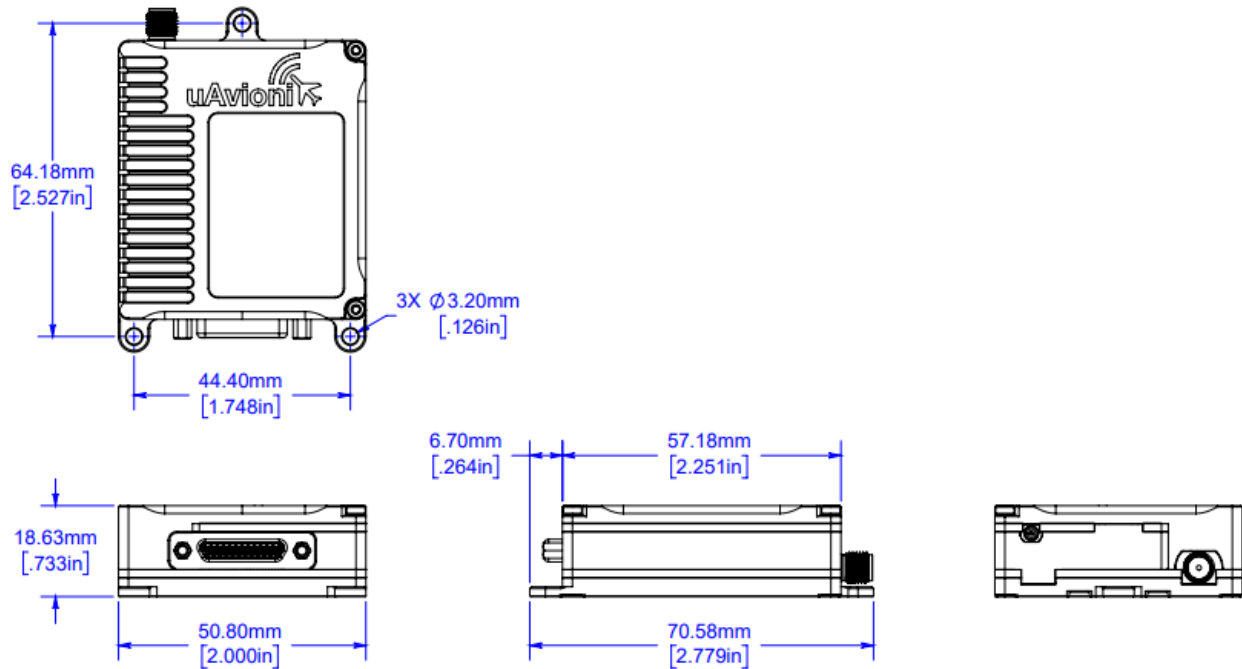
Parameter	Value
Input Voltage / Power	4.2-60 VDC
Size	19 x 51 x 71 mm
Weight	100 grams
Operating Temp	-45 to 70°C
C-Band Radio	
Band	C-Band: 5030 to 5091 MHz
Transmit Power	100 mW
Receiver Sensitivity	-113.5 dBm
Bandwidth	210 kHz
Doppler Capture Range	±12.5 kHz
LTE Radio	
Service	Global LTE Cat 1
LTE 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 or TTL 57600 bps
Protocol	Binary, Transparent
Environmental	
DO-160G	Temperature Cat B2

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Mechanical Specification



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- 1 Cable RF SMA-SMA Long UAV-1006858-002
- 1 Cable RF SMA-SMA Short UAV-1006858-001
- 2 Antenna 5060 OMNI SMA UAV-1006288-001
- 1 truFYX-EXP UAV-1002500-001
- 1 PX2 Adapter UAV-1006282-001
- 1 Cable Harness LEMO8 UAV-100XXXX-001

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