

# 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 the SkyLink5060 C-Band CNPC radio, and supports SATCOM/ethernet interface radios. It also streamlines platform integration by automatically registering aircraft with SkyLine Cloud Managed BVLOS service.

#### **Features**

- Transmits and receives simultaneously on all available links, offering multi-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.
- Optional external SATCOM or DHCP WAN/LTE device.
- User accessible nano SIM card.
- 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	
	Position
Interface	RS-232 115200 bps
Position Protocol	NMEA 0183
UTC	1 PPS Time Pulse
	CNPC User
Interface	RS-232 57600 bps
Interface Protocol	RS-232 57600 bps Binary, Transparent
Interface Protocol External CI	RS-232 57600 bps Binary, Transparent NPC Control
Interface Protocol External CI Interface	RS-232 57600 bps Binary, Transparent NPC Control RS-232 115200 bps
Interface Protocol External CI Interface Protocol	RS-232 57600 bps Binary, Transparent NPC Control RS-232 115200 bps UCP
Interface Protocol External CI Interface Protocol External Etl	RS-232 57600 bps Binary, Transparent VPC Control RS-232 115200 bps UCP Ternet Radio
Interface Protocol External Cl Interface Protocol External Etl Interface	RS-232 57600 bps Binary, Transparent NPC Control RS-232 115200 bps UCP hernet Radio JST.GH
Interface Protocol External Cl Interface Protocol External Etl Interface Protocol	RS-232 57600 bps Binary, Transparent NPC Control RS-232 115200 bps UCP Dernet Radio JST.GH Ethernet
Interface Protocol External Cl Interface Protocol External Etl Interface Protocol Autopilot	RS-232 57600 bps Binary, Transparent NPC Control RS-232 115200 bps UCP Dernet Radio JST.GH Ethernet Telemetry
Interface Protocol External Cl Interface Protocol External Etl Interface Protocol Autopilot Interface	RS-232 57600 bps Binary, Transparent NPC Control RS-232 115200 bps UCP Dernet Radio JST.GH Ethernet Telemetry RS-232 57600 bps
Interface Protocol External Cl Interface Protocol External Etl Interface Protocol Autopilot Interface Protocol	RS-232 57600 bps Binary, Transparent NPC Control RS-232 115200 bps UCP Dernet Radio JST.GH Ethernet Telemetry

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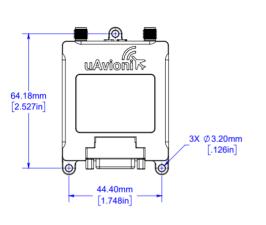


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**Temperature Cat B2** 

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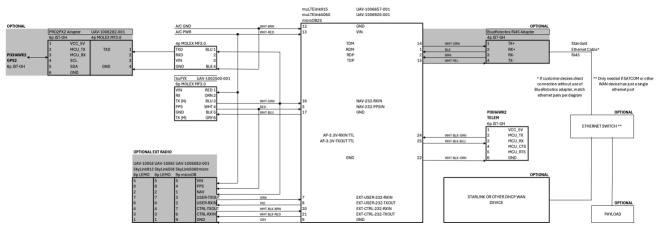
### **Mechanical Specification**





DO-160G

#### **Electrical**



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