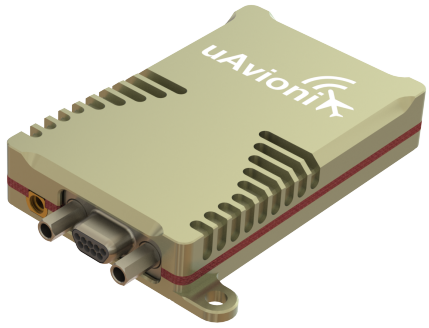
SkyLink5060Micro

C-band CNPC Radio Data Link

Overview

SkyLink5060Micro is a C-Band (5030-5091 MHz) bi-directional radio system offering UAS operators reliable platform control using aviation-protected spectrum. It complies with the RTCA DO-362A standard for UAVs operating below 1000 ft above ground level (AGL). SkyLink5060Micro provides a protocol agnostic autopilot telemetry interface for Command and Control (C2) data, and has built in system status monitoring to meet the requirements of RTCA DO-377A.



Features

- Complies with Category AXS of DO-362A.
- Max 100 mW output power, suitable for operations below 1000 ft AGL.
- Integrated status, integrity, and health monitoring of both local (airborne) and remote (ground) radio systems to meet the requirements for the Data Transfer, Security, and Routing (DTSR) subsystem in RTCA DO-377A.
- Transparent, protocol agnostic, RS232 autopilot telemetry interface.
- UTC synchronized TDD message frame structure
- Connects to SkyStation5060 and SkyStation5060LTE ground radio systems.
- Seamless integration with muLTElink915 multiple link airborne radio system.
- Supported by SkyLine Cloud Managed BVLOS Service.
- Environmental DO-160G
- Software DO-178C Level C
- Complex Hardware DO-254 Level C

Regulatory

- FCC 47 CFR Part 87
  - 2AFFTC2XCP0 (in process)

Technical Specifications

Specification	Value
Input Voltage	4 to 36 VDC
Power	Nominal – 3.5 W Peak – 6 W
Size	37 x 61 x 11 mm
Weight	37.5 grams
Operating Temp	-45 to 70°C
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
Data Transmission	
Modulation Symbol Rate	138 ksps 5/8 TCC
User Data Bits (FEC Rate)	3840 Bytes/sec
Timing/Position Input	
UTC	1 PPS Time Pulse
Position	NMEA 0183 115,200 bps
Interface	RS-232
Environmental	
DO-160G	Temperature Cat B2
Part Numbers	
SkyLink5060Micro	UAV-1006308-001
C-Band Omni Antenna	UAV-1006288-001
truFYX EXT GPS	UAV-1004957-001
truFYX INT EXP GPS	UAV-1002500-001
George G3 Autopilot	UAV-1005526-001

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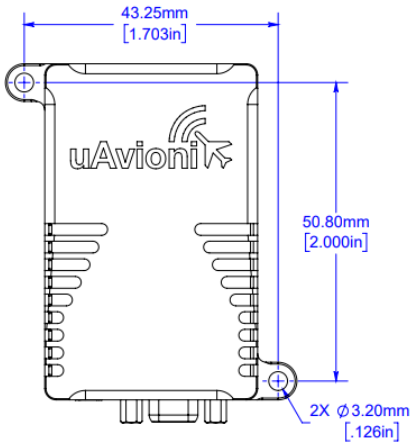
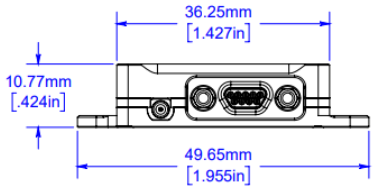
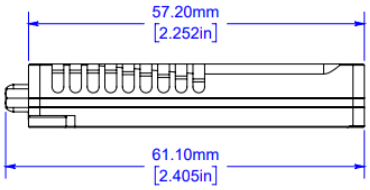
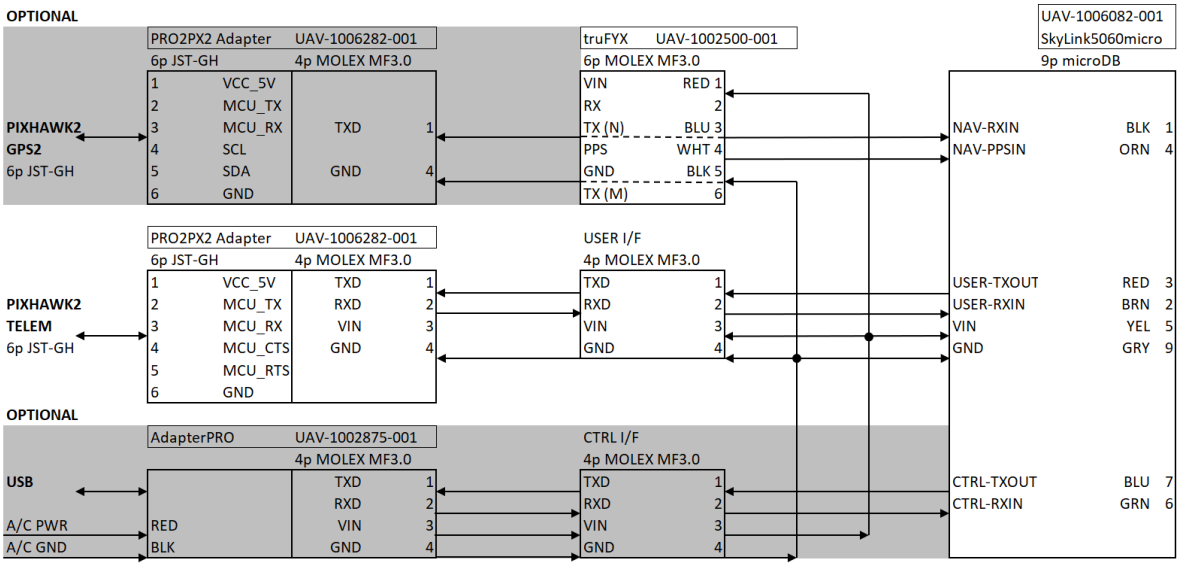
Mechanical Specifications







Electrical



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