

SkyLink5060

User and Installation Manual





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Warranty repair service shall be provided directly by uAvionix.



3 Revision History

Revision	Date	Comments
А	January 2022	Initial Release
В	April 29 2022	Updates to installation procedures and updated diagrams
С	November 17 2022	Updated to reflect new firmware and software revisions. Fix errors in wiring diagram.
D	February 28, 2024	Correct power to 24V in Section 12.3



4 Regulatory Statements

4.1 FCC Statement

The following required statement from the Federal Communications Commission (FCC) applies to United States based entities with the exception of direct sales to the U.S. Government and units directly exported by uAvionix:

This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.

4.2 SkyLink5060 Use Prior to FCC Authorization

Those wishing to use SkyLink5060 airborne and SkyStation5060 ground radios before they receive FCC authorization must request one or more Experimental FCC Transmit Licenses.

First, though, one or more FAA Coordination Numbers must be requested and obtained, signifying the FAA's approval to use its protected C-band frequencies. Once obtained, each FCC transmit authorization applies to:

- One or more center frequencies
- Over a specific geographic area centered on a particular Latitude and Longitude
- Up to a specific maximum flight altitude or antenna height
- A specific duration of calendar time (e.g., six months)

For help with the FAA and FCC application processes, contact support@uavionix.com.

You can also reach out to Jim Davis, Director of Policy and Regulatory Affairs, at jim.davis@uavionix.com.

5 Warnings

Thoroughly read and understand this user manual before handling products. Failure to do so may result in damage to the product and a voided warranty.

- DO NOT apply more than 32 Volts DC to the radios.
- DO NOT apply power to radios without antennas or RF loads connected.



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7 Introduction

SkyLink5060 is an aviation-protected C-Band (5030-5091 MHz) bi-directional, Multiple Input Single Output (MISO) dual Control and Non-Payload Communications (CNPC) radio system. Compliant with the RTCA DO-362A standard, SkyLink5060 provides the information exchange required for operators to safely control, monitor, and manage Unmanned Aircraft Systems (UAS).

SkyLink5060 and SkyStation5060 radios seamlessly integrate with the uAvionix SkyLine infrastructure, the first enterprise managed command and control (C2) network. Skyline includes autonomous make-before-break roaming between SkyStation5060 ground radios and applications for planning, operating, and monitoring real-time missions.

8 System Overview

SkyLink5060 Kit Components

	Component	Part Number
1	SkyStation5060 Ground Radio System (GRS)	UAV-1006090-001
2	SkyLink5060 Airborne Radio System (ARS)	UAV-1006082-001
3	SkyLink Hub	UAV-1006103-001
4	truFYX GPS	UAV-1004957-001
5	Two GRS Directional Antennas	UAV-1006176-001
6	Two ARS Omnidirectional Antennas	UAV-1006288-001
7	GRS to Hub Wire Harness	UAV-1006647-001
8	M12 X-Coded Ethernet Cable	UAV-1005899-001
9	ARS Wire Harness	UAV-1006648-001
10	GRS Pole Mounting Kit (angled bracket)	UAV-1006267-001
11	Hub Pole Mounting Kit	UAV-1006270-001
12	RS-232 to TTL Pixhawk Adapter	UAV-1006282-001
13	SMA Coaxial antenna leads	
14	SkyLinkApp and Documentation	

SkyStation5060 and SkyLink5060 Radio Systems

Each SkyLink radio system is a purpose-built diversity system with two receive channels and one transmit channel. The system includes built-in link management that handles remote configuration and performance statistics.

User Data Link

• Transparent bi-directional CNPC data link between GRS and ARS

Control Data Link

• Link management signaling between GRS and ARS including roaming functions when passing pilot control from Serving GRS to Target GRS.



SkyLink Hub

The SkyLink Hub provides a GPS receiver, power supply, communications, and network access to the ground system.

truFYX GPS

The truFYX provides GPS signal to the SkyLink5060 airborne radio system (ARS). Internal and external mount configurations are available.

Figure 1 shows a typical system with a SkyStation5060 Ground Radio System (GRS) and a SkyLink5060 Airborne Radio System (ARS) managed by uAvionix SkyLine infrastructure.

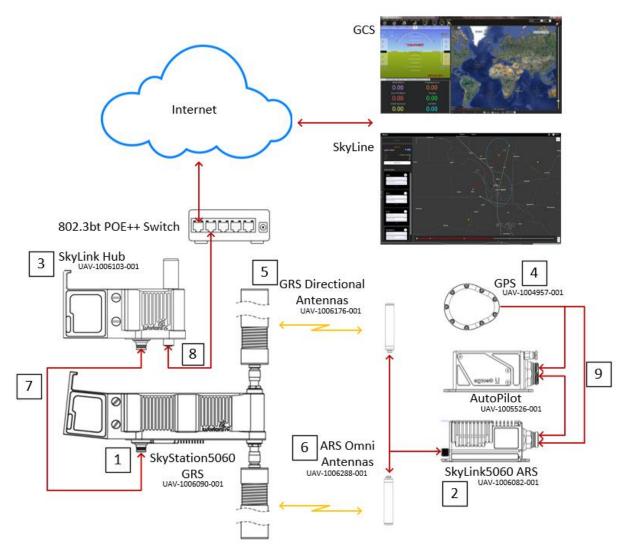


Figure 1 – SkyLink5060 Radios with SkyLine Infrastructure



9 Installation

9.1 SkyStation5060 Ground Radio System (GRS)

9.1.1 Mounting SkyStation5060 GRS

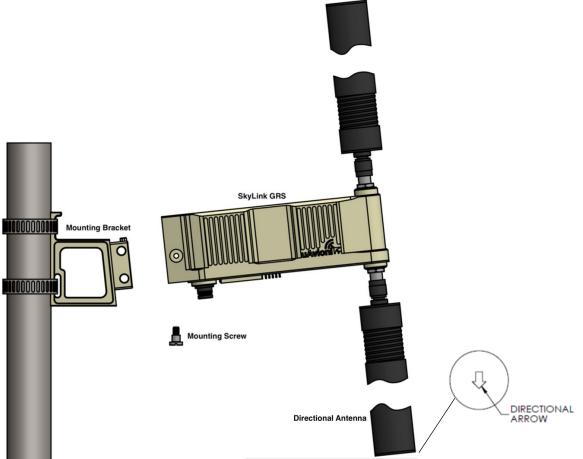


Figure 2 - Mounting SkyStation5060 GRS

The SkyStation5060 GRS Mounting Bracket is angled 6 degrees upward to maximize airborne coverage.

- 1. Secure the angled SkyStation5060 GRS Mounting Bracket to a pole with the included stainless steel hose clamps.
- 2. Align the GRS with the Mounting Bracket and slide the GRS into place over the end of the bracket. The bracket will now hold the GRS in place.
- 3. Use the included mounting screw to fasten the GRS to the bracket.
- 4. Attach the GRS Directional Antennas, tighten, and adjust orientation.



5. A directional arrow on the end cap of each antenna denotes the transmit and receive direction of the antenna. The antennas have 110 degrees of horizonal sector coverage (55 degrees on either side of the directional arrow). Point *both* antenna arrows in the direction of your operational area for best performance.

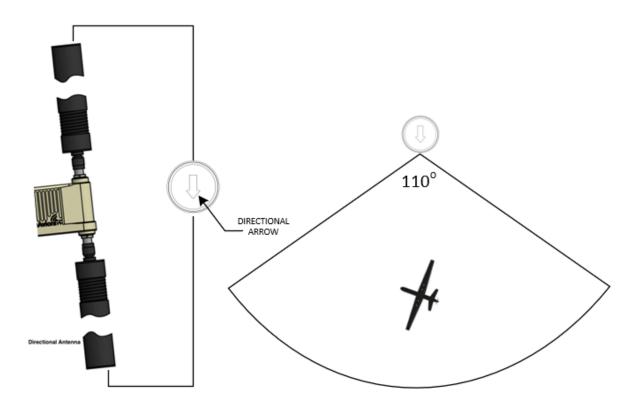


Figure 3 Directional Antenna Orientation



9.1.2 Mounting SkyLink Hub

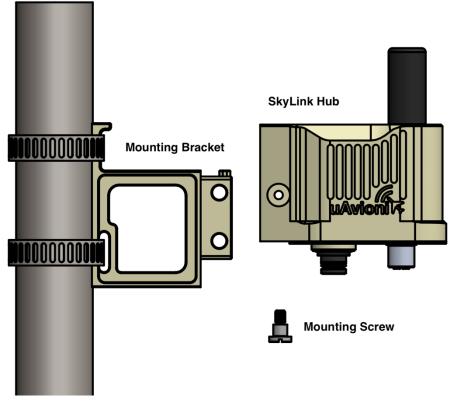


Figure 4 Mounting SkyLink Hub

The SkyLink Hub Mounting Bracket is *not* angled. The Hub mounts perpendicular to the pole, and the GPS antenna should point up. Position the hub away from the GRS to avoid interference.

- 1. Fasten the Hub Mounting Bracket to a pole with the included stainless steel hose clamps.
- 2. Align the Hub with the Mounting Bracket and slide the Hub into place.
- 3. Use the included mounting screw to fasten the Hub to the bracket.



9.1.3 Connections

Ensure that the two directional antennas or RF loads are attached to both RF ports on the SkyStation5060 GRS before powering on.

Connect SkyStation5060 GRS to the SkyLink Hub and connect the Hub to a POE++ switch with network access.

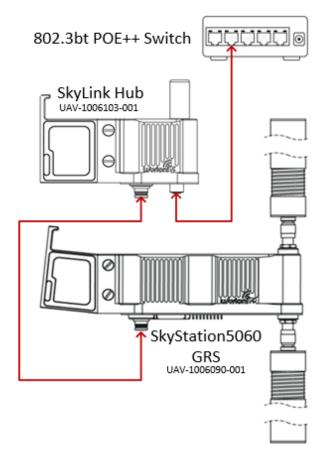


Figure 5 – SkyStation5060 GRS Connections

The SkyStation5060 GRS connects to the Hub with the provided LEMO harness. Table 1 below shows the connector pinout.

Table 1 – SkyStation5060 GRS Pinout

Pin	Туре	GRS	Hub	LEMO 1M.308
1	GND			
2	NAV	IN	OUT	PIN 1-
3	CTRL RX	IN	OUT	
4	CTRL TX	OUT	IN	
5	PWR	24V	24V	
6	USER RX	IN	OUT	DETAIL 1
7	USER TX	OUT	IN	DETAILT
8	PPS	IN	OUT	



Connect the SkyLink Hub to the network via POE++ using the provided M12 X-Coded ethernet cable.

Table 2 - SkyLink Hub POE Specifications

POE Specifications				
Standard	802.3bt POE++			
Maximum Power	60W			
Voltage Range	37 – 57V			
Maximum Current	350mA			
Maximum Cable Resistance	20Ω			
Supported Cabling	Shielded Cat 5			
Supported Modes	Mode A (endspan), Mode B (midspan)			
Power Management	Power Class 6			
Maximum Cable Length	100 meters			

M12 plug

M12 jack

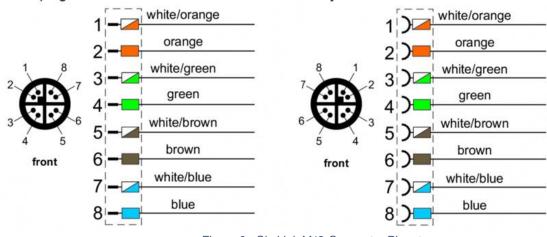


Figure 6 - SkyLink M12 Connector Pinout

Caution! Absolute maximum DC voltage +57 V to the HUB. Higher DC voltage will permanently damage the equipment.



9.2 SkyLink5060 Airborne Radio System (ARS)

Ensure that the two omni antennas or RF loads are attached to both RF ports on the ARS before powering on.

9.2.1 Mounting SkyLink5060 ARS

Install the SkyLink5060 ARS in the airframe in a location that allows easy access to the autopilot and minimal RF coax length for antenna installation. Ensure ample clearance for the cooling fan in the mounting location.

Install the omni antennas in a vertical orientation on the airframe in a location that reduces shadowing and interference between the omni antenna and the GRS. Ideally one antenna on opposite sides of the airframe. Refrain from installing the antennas near other antennas or other electronic equipment already on the airframe to reduce EMI.

The truFYX GPS needs to be installed on top of the airframe in a location that reduces shadowing and allows a clear view of the sky.

9.2.2 Connections

The SkyLink5060 ARS offers seamless integration with the uAvionix George autopilot line, Pixhawk, Piccolo, or any autopilot that has an available RS-232 communication line.

A wire harness is included with the following three terminations (see Figure 7 ARS Wiring Harness):

- **GPS** source for truFYX
- User data link for autopilot connection
- Control data link for ARS device setup and configuration

24v power source can be supplied through either the User data link or Control data link connector.

Connection to an autopilot is done via the User data link to an available telemetry or serial port. The SkyLink ARS uses RS-232 levels and has a default rate of 57600 8N1

George Autopilot

Connection to George autopilot will be made using serial 1 on the autopilots. For more information on George G2i and George G3 pinout, please review the respective manuals at <u>https://uavionix.com/products/george/</u>

Pixhawk Autopilot

When connecting to a Pixhawk, use the included RS-232 to TTL adapter. Connect the Pixhawk via the User data link. SkyLink must have an external 24v power supply connected through the Control data link as the Pixhawk will not supply 24v.



The Figure below shows each component and its corresponding pinout.

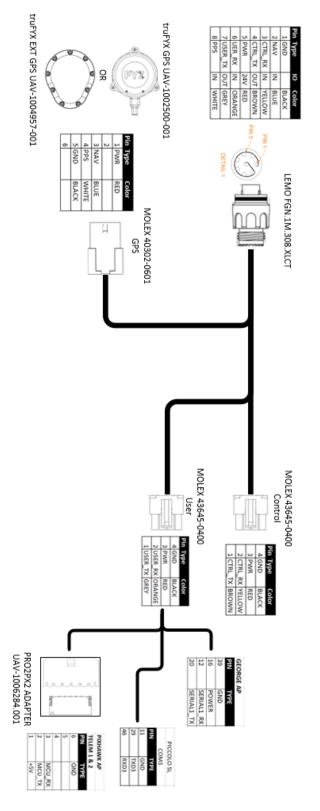


Figure 7 ARS Wiring Harness



UAV-1006203-001

10 Configuration

10.1 SkyLinkHUB

SkyLink Hub settings are accessed via web browser from a PC or mobile device on the same Local Area Network (LAN) as the powered SkyLink Hub. The IP address assigned by the DHCP server is the base URL. An IP scanner, such as Advanced IP Scanner, can be used to find the IP address of the Hub. MAC addresses are printed on the Hub label.

Navigate to http://###.###.###/

NOTE: "###.####.####" is the IP address of the SkyLink Hub.

← → C ☆ ③ 192.1	8.2.219
Firmware Info	rmation
SkyStation Version:V 0.0.12Radio Version:V0.2.8RadioID:0x1003B	Update
Settings	
Skyline Information Websocket URL: Datamux Information IP Address: (0.0.0.0 for listen) User Port: Control Port:	0.0.0 42430 42431
Status Informa	tion
Save	tion Value
Save Status Informa Name	
Save Status Informa Name	Value
Save Status Informa Name Up Time 2w:4	Value 1:23h:8m:29s
Save Status Informa Name Up Time 2w:4 GPS Fix	Value 1:23h:8m:29s 4
Save Status Informa Name Up Time 2w:4 GPS Fix Num GPS Sats Latitude	Value 1:23h:8m:29s 4 12
Save Status Informa Name Up Time 2w:4 GPS Fix Num GPS Sats Latitude	Value 1:23h:8m:29s 4 12 48.0275296
Save Status Informa Name Up Time 2w:4 GPS Fix Num GPS Sats Latitude Longitude	Value 1:23h:8m:29s 4 12 48.0275296 122.0705152
Save Status Informa Name Up Time 2w:4 GPS Fix Num GPS Sats Latitude Longitude GPS Altitude	Value 1:23h:8m:29s 4 12 48.0275296 122.0705152 277
Save Status Informa Name Up Time 2w:4 GPS Fix Num GPS Sats Latitude Longitude GPS Altitude PPS Detected	Value 1:23h:8m:29s 4 12 48.0275296 122.0705152 277 true
Save Status Informa Name Up Time 2w:4 GPS Fix Num GPS Sats Latitude Longitude GPS Altitude PPS Detected SkyLine Up Time	Value 1:23h:8m:29s 4 12 48.0275296 122.0705152 277 true 23h:42m:32s

Figure 8 SkyLink Hub Web Page



Settings

Websocket URL	SkyLine only. Registers the GRS with a SkyLine network.
	Default 0.0.0.0 sets the GRS Hub to server mode.
IP Address	A valid IP Address to set the SkyLink Hub to client mode, and the Hub will attempt an outbound connection to the IP Address.
User Port	TCP port for User data link. Default is 42430
Control Port	TCP port for Control data link. Default is 42431

Press the Save button to store the settings changes. These fields are non-volatile and persist through power cycles.

Network Configuration

Advanced settings for network administrators. On the main Hub settings page, click the "Network Configuration" link under Settings.

The "Network Configuration" settings are only used if the SkyLink Hub is connected to a network without a DHCP server. These settings are ignored in a typical system.

← → C ▲ №	lot secure 192.168.2.219/networkConfig
/\/ /\ //\\\/// /\v// \//\\/	
Network (Configuration
IP Address:	192.168.1.1
Subnet Mask:	255.255.255.0
Gateway Address:	0.0.0.0
DNS Server Address:	0.0.0.0
Save	
<u>Main Page</u>	

Figure 9 SkyLink Hub Network Settings

In a network without DHCP, set the IP Address field to assign a static IP to the SkyLink Hub.

Fill in the appropriate values for Subnet, Gateway, and DNS in the network and press Save.

Note: If you add DHCP to your network or plug the Hub into a DHCP network, these values will be ignored, and the DHCP server will assign values. Using these static network settings within a DHCP network is not supported.



UAV-1006203-001

Status Information

HUB connection and GPS status is verified in the Status information.

Status Information		
Name	Value	
Up Time	5m:15s	
GPS Fix	3	
Num GPS Sats	10	
Latitude	48	
Longitude	-114	
GPS Altitude	3091	
PPS Detected	false	
SkyLine Up Time	0s	
User Skt Up Time	0s	
Ctrl Skt Up Time	0s	
Mission Timeout	0	

Figure 10 HUB Status

Time since HUB has been active on network
GPS Fix status
Number of GPS satellites being received
GPS Latitude
GPS Longitude
GPS Altitude
PPS signal detected True or False
Time since HUB and Radio has been active on skyLine
Time since User data has been active on skyLine
Time since Control data has been active on skyLine
Number of timeouts to create mission on skyLine



10.2 SkyStation5060 Ground Radio System (GRS)

Open the uAvionix SkyLinkApp application using a Windows computer with network access to your SkyStation5060 GRS.

Input the IP Address of your SkyLink Hub and the Control Port from the SkyLink Hub Settings page in the "COM Settings" box.

Optionally, next to "Device Name," type in a name for the radio and press Save. This allows for quick switching between different radio connections.

When the radios are linked, status data is shown for both the local and the remote radios on the "Status tab."

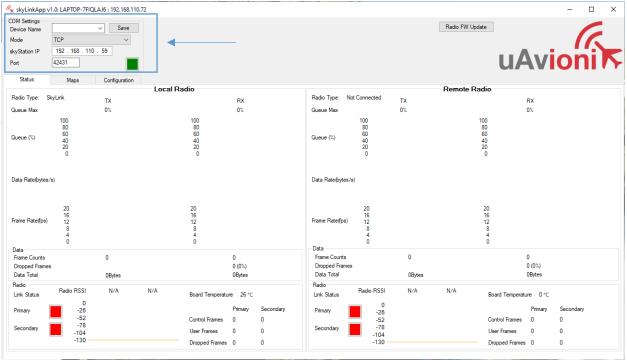


Figure 11 SkyLink App GRS Connection



GRS Configuration

In SkyLinkApp, navigate to the Configuration Tab. This page is used for device settings and setup as well as selecting the Frequency scheme for the system. The frequency used MUST be within 5031 and 5091 MHz.

COM Settings		Save				Radio FW Update
Device Name	× _					
Mode	TCP	\sim				
skyStation IP	192 . 168 . 2 . 78					
Port	42431					uAvioni
Status	Maps Confi	guration				
Status	Maps	-				
		Hop Table			7	Device Configuration
		ldx	Freq (MHz)	Sync Word	Device ID Input	Station Type O Frame on Uart Idle
		0	503000000	0×0000000		Infrastructure V
		1	503000000	0x00000000	Generate Device ID Hop Table	
		2	503000000	0x0000000	Save Hop Table To Radio	User Port Baud Rate
		3	503000000	0x0000000		57600 ~
		4	503000000	0×00000000		
		5	503000000	0×0000000		
		6	503000000	0x0000000		
		7	503000000	0×0000000		Get Config from Device Save Config to Device
		8	503000000	0x0000000		
		9	503000000	0×00000000		
		10	503000000	0×0000000		
		11	503000000	0×00000000		
		12	503000000	0x0000000		Versions
		13	503000000	0x0000000		Local Radio Firmware Version 0.4.12 0.4.3
		14	503000000	0x00000000		Firmware CRC 0x3F70EF4C
		15	503000000	0x00000000 0x00000000		Hardware ID 0x3D
		16	503000000	0x00000000		Device ID 0x0100260048 Remote Radio
		17	503000000	0x00000000		Firmware Version
		19	503000000	0x00000000		Firmware CRC 0x Hardware ID
		20	503000000	0x00000000		Device ID 0x00000000
		20	503000000	0x00000000		
		21	503000000	0x00000000		
		22	503000000	0x00000000		
		23	503000000	0x00000000		
		24	503000000	0x00000000		
		25	503000000	0x00000000		Get Versions
		20	503000000	0x00000000	4	

Figure 12 SkyLink App Radio Configuration

Station Type	SkyLink GRS = Ground SkyLink ARS = Air SkyLink GRS with SkyLine = Infrastructure
Hop Table	*Configure radio frequency.
Versions	Get version details from connected SkyLink radios

*SkyLine will automatically configure a match frequency for the GRS(s) being used with the paired ARS. ARS(s) are assigned a specific frequency and the GRS(s) used must match to create a link. To change the frequency manually, double click the text in the "Freq" of the Hop Table at "Idx" position 0. Then enter your frequency in Hz Ex: 5,056,000,000 Hz. Only configure the top frequency in the Hop Table. Click "Save Hop Table to Radio" to save frequency configuration.

Configuration					
	Hop Table				
	ldx	Freq (MHz)	Sync Word	^	
	0	5056000000	0x00000000		
	1	503000000	0x00000000	-	
	2	503000000	0x00000000	-	Ē
	3	503000000	0x00000000	-	Į L
	Figu	ire 13 Hop Table	l		1



10.3 SkyLink5060 Airborne Radio System (ARS)

Connect the ARS Control data link termination to the provided serial connector. Connect the serial connector to a Windows computer.

Open the uAvionix SkyLinkApp application.

In the "COM Settings" box, next to Mode, choose "Serial" then select the "Port" that corresponds with the connected radio (i.e. COM1).

Optionally, next to "Device Name," type in a name for the radio and press "Save." This allows for quick switching between different radio connections.

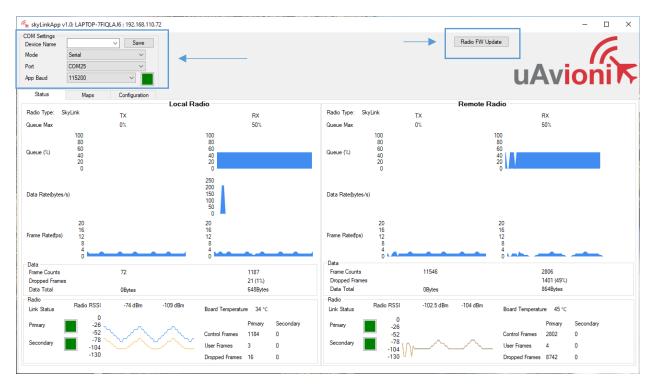


Figure 14 SkyLink App ARS Connection

ARS Configuration

ARS are delivered preconfigured with an assigned frequency which is provided, and with an airborne configuration. If the frequency of the ARS needs to be adjusted, follow the same steps for configuring the frequency on the GRS in section **Error! Reference s ource not found.** DO NOT change the station type of the ARS without first consulting uAvionix support. Station type of the SkyLink5060 ARS should ALWAYS be configured to "Airborne."



11 Operation

11.1 Radio Link

To link the SkyStation5060 GRS and the SkyLink5060 ARS radios, both need to be configured to the same frequency scheme, have a GPS position lock, and a PPS timing signal.

To verify link, connect the GRS to the SkyLinkApp and go to the Status Tab. When the data arrives, skyLinkApp will begin graphing the radio link statistics.

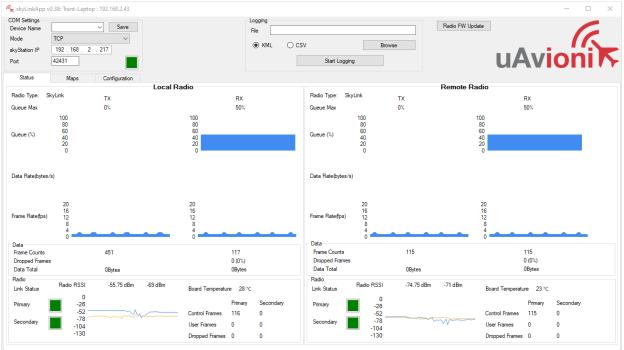


Figure 15 SkyLink App Radio Status



11.2 Mission Planner Example

- 1. Connect the skyLink5060 ARS to an Autopilot via the User data link connection.
- 2. Verify the ARS and GRS have a link
- 3. Open ArduPilot Mission Planner application.
- 4. In the communication drop down menu (upper right corner), select TCP.
- 5. Press Connect.

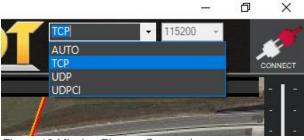


Figure 16 Mission Planner Connection

- 6. Enter the IP Address of the SkyLink Hub. Click OK.
- 7. Enter the User TCP Port of the SkyLink Hub. Click OK.
- 8. Mission Planner will connect and display aircraft and telemetry data.

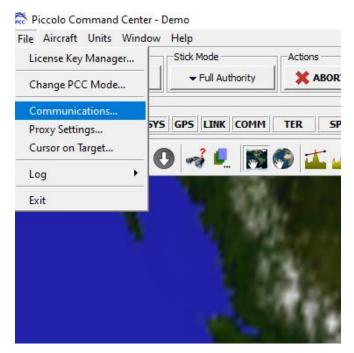


Figure 17 Mission Planner Connection Status



11.3 Piccolo Command Center Example (PCC)

1. Open PCC and when the PCC communication pop-up appears, Select "Network Server." If the communications pop-up does not appear, choose "Communications" from the "File" menu.



2. In the "Server" window, enter the IP address of the SkyLink Hub followed by the User Port separated by a colon. Ex: "XX.XXX.XXX.XXX:00000"

🎘 Communications					
Network Server					
TCP/IP Settings					
Server: 3.202.210.188:33687					
🗌 Listen Only					
ОК	Help	Cancel			
	Quit				

3. Press "OK" and verify communication between PCC and the Piccolo Autopilot



12 Firmware Update

12.1 Hub Firmware Update

Navigate to the SkyLink Hub webpage found in section **Error! Reference source not f ound.**. Hub firmware can be updated by clicking the Update link under Firmware Information.

← → C ▲ Not secure 192.168.2.219/update	
Firmware Update	
Choose File SkyStationF7_V0.0.5.uav	
Start Update	
<u>Main Page</u>	
Figure 18 SkyLink Hub Firmware Upda	te

Choose the appropriate file to upload and click Start Update.

Firmware Update
Update file transfer complete. Rebooting
Choose File SkyStationF7_V0.0.5.uav
Start Update
<u>Main Page</u>

Figure 19 SkyLink Hub Firmware Updating

Note: The update is canceled if the Hub is powered off or the webpage is closed. Wait for the Hub to reboot before proceeding.

When the file transfer is complete, click the Main Page link to return to the SkyLink Hub Settings page. The version number on the Configuration Webpage should reflect the firmware version uploaded.



12.2 SkyStation5060 GRS Radio Firmware Update

The SkyStation5060 GRS Radio firmware can be updated via the SkyLinkApp.

Connect the GRS to the SkyLinkApp following the steps in section. Press Radio FW Update in the upper right corner of SkyLinkApp. A new window will open.

Press Select File and select the correct firmware file.

Press Connect. When the GRS is connected, the Product Information window will populate with the current radio information and the PingBoot Status in the bottom left will change to "Idle."

Press Flash. DO NOT power off or disconnect the device until the flash is complete.

🖍 skyLinkApp v1.0		- 🗆 ×
<u>F</u> ile		
Connection Type: Serial	Product Information	
Port: COM25	App ID 0x0041003D App Version v0.4.0 App CRC 0x67E72133 Boot ID 0x003000FE	<u> </u>
Disconnect	Boot Version v1.0.0 Boot CRC 0xC8DF9C34 Device UUID 0x4B535017003A0017	uAvioni 🏹
File C:\Release_UAV-XXXXXX-001_SkyL	ink_STM_V0.2.8_9bf0869.uav	Select File
Progress		Flash

PingBoot Status: Idle

Figure 20 Ping Boot Flasher Application



12.3 SkyLink5060 Radio Firmware Update

DO NOT POWER ON RADIO WITHOUT ANTENNA OR RF LOADS ATTATCHED

The SkyLink5060 ARS firmware is updated using the pingBootFlasher application. Open PingBootFlasher and press Select File and select the correct firmware file.

Connect the ARS via the CTRL port to a PC using the provided serial to USB adapter. Supply 24v of power to the radio.

On the pingBootFlasher application, select the proper COM port from the "Port" dropdown.

🖍 PingBoo	otFlasher UAV-1002813-001 v2.1	1				- 🗆	×
File							
COM Setti Port Product	COM3 ~ Auto ~	Product Information App ID N/A App Version N/A App CRC N/A Boot ID N/A				R	
Connect		Boot Version N/A Boot CRC N/A Device UUID N/A	uAvioni				
File						Select File	
Progress						Flash	
PingBoot Sta	tus: Disconnected						

Press Connect. When the ARS is connected, the Product Information window will populate with the current radio information and the PingBoot Status in the bottom left will change to "Idle."

Press Flash. DO NOT power off or disconnect the device until the flash is complete.

13 Support

For support visit https://uavionix.com/support/

