

SKYLINK CITADEL USER GUIDE

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SkyLink Citadel

User Guide

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ABOUT THIS USER GUIDE

Thank you for purchasing the SkyLink Citadel! This easy-to-read user guide is organized based on the steps needed to log in to and navigate the SkyLink Device Interface for singular device use. To manage a fleet of devices, please see the SkyLink Cloud Services User Guide.

We sincerely hope that SkyLink enhances your ability to monitor and configure your assets anywhere in the world. Please continue to read on or choose a starting point from the list below:

- Changing your SkyLink device's name
- Managing your device's Firewall Profiles
- Updating SkyLink firmware
- Using your SkyLink device: making calls, connecting to the internet, and more
- <u>Troubleshooting</u>

ABOUT SKYLINK

Introduction to SkyLink

SkyLink by Blue Sky Network is the inaugural Iridium Certus 100 mid-band solution for land mobile, aviation, IoT, and maritime markets. This small-form, multi-stack hardware is designed for any fixed-mount, portable, or mobile application and offers a range of service configurations.

Key features include:

- Remote device management
- Sensor/engine diagnostics
- Network services (VPN, IP, MQTT)
- IP65 Certified

- Health monitoring
- Data analytics/edge computing
- SkyRouter integration
- FCC Part 15 & 25 Certified

Compatibility and System Requirements

To access the SkyLink Device Interface, you will need 1) an internet connection and 2) a recent version of a web browser that supports HTML5.

The SkyLink Device Interface has been tested with the following recommended browsers:

- Google Chrome (Mac/Windows)
- Mozilla Firefox (Mac/Windows)
- Safari (Mac)
- Microsoft Edge (Windows)

GETTING STARTED

NOTE: SkyLink WiFi must be turned off when the device is installed in the SkyLink Citadel ADU. A remote WiFi module can be added in the Citadel saferoom from the junction box by connecting the Ethernet to a 4 or 5 port Ethernet switch. This enables multiple devices (e.g., remote WiFi module, laptop) to be connected.

Please contact Blue Sky Network support regarding power requirements or adding third-party ethernet switches and WiFi modules.

Connecting to the Network through Ethernet

If using an ethernet cable with your SkyLink device, plug it into the appropriate peripheral (e.g., a laptop) and your device will automatically be configured via DHCP. **NOTE**: When using the maximum cable length of 300', it is required to slow down the ethernet to 10 Mbps, full duplex.

A Note to Mobile Users

We recommend the following configurations to help optimize mobile device usage with SkyLink.

Note: For quicker network troubleshooting, ensure VPNs are disabled when using SkyLink in any of the default firewall modes (see the <u>Connection Manager</u> screen for more information on firewalls).

APPLE/IOS

Navigate to *Settings > Wi-Fi > SkyLink Wi-Fi network>* click the circular *information icon*. From here, you can make these changes:

Low Data Mode > On

• This saves cellular and WiFi usage and disables some of the background app updates.

Private Wi-Fi Address > Off

• This prevents the iOS device from becoming a "new device" every 24 hours and allows SkyLink to map data usage back to individual devices. You can disable this feature on your own networks when you want to track individual devices.

Limit Address Tracking > Off

• This may help prevent problems using the mail feature.

Settings > Top banner with your account name (i.e., Apple ID) > iCloud > Private Relay

• If needed, this configuration will disable the Private Relay feature.

ANDROID

Navigate to *Settings* > *Connections* > *SkyLink Wi-Fi network* > press the *gear icon*. From here, you can make these changes (you may need to click the "View more" drop-down arrow):

Metered > On

• This saves cellular and WiFi usage and disables some of the background app updates.

Privacy > *Device MAC address*

• This turns off private MAC addresses, allowing SkyLink to map data usage to devices.

SKYLINK DEVICE INTERFACE

To connect to the SkyLink Device Interface, open a web browser, type the below IP address into the address bar, then press 'Enter' on your keyboard.

SkyLink IP address: <u>192.168.111.1</u>

You will then be directed to the SkyLink Device Interface login screen. If this is your first time logging in, use the default information below to view, configure, and manage your device settings.

The default username and password are both 'admin.'

Click the 'Logout' button located on the top right-hand corner when you are ready to exit.

SkyLink	Blue Sky Network	Login
,ɪ ɪl Status ? Help of Licenses		
	Login Username: Password: Cancel Login	

Overview

The tabs on the left-hand side of each screen allow you to easily find important device information and make configurations. In order, they are:

• <u>Status</u>

Configuration:

- General Settings
- <u>Connection Manager</u>
- <u>Network</u>
- <u>Firewall</u>
- <u>Remote Management</u>
- <u>Serial to IP</u>
- <u>SNMP</u>
- Voice Extensions
- <u>Accessories</u>

Data & Tools:

- <u>Calls</u>
- <u>Diagnostics</u>
- <u>System Log</u>
- <u>Advanced</u>

Other:

- <u>Help</u>
- <u>Licenses</u>

The following sections describe each screen's information and configuration options.

Status

After logging into the SkyLink Device Interface, you will automatically be directed to the Status screen, where you will find system information and satellite and cellular data usage.

SkyLink	Blue Sky Network					
Image: status �₀ Configuration ✿ General Settings ✿ Connection Manager 品 Network ● Firewall	System I Serial Number: 0000-0016 Model: SkyLink 5100 Versions: SYN267 REV F / 2	nformatio	Sat. IMEI: 300058060 Sat. SIM:	1000233156	Cell. IMEI: 861364040178 Cell. SIM: 898830300000 CPU Temp.: 50.0°C	
 ⊕ Remote Management ⇒ Serial to IP Current SkyLink hardware / firmware 	Capabilities: Voice & Data Gate System Time: 2022/8/22 16:50:		Location: 32.77148, -7 Asset Tag: 3421 tseT		WiFi SSID: DragonsInc	
versions can be found here. See the <u>Diagnostics</u> screen	Satellite Signal: On Net:		Route: N/A	Cellular Signal: -108 On Net: 100%		Primary, Active
for the current 9770 Certus modem firmware version.	24 hrs 9	- USAGE Bytes Sent	Bytes Received	24 hrs ⁰	- USAGE Bytes Sent 23,488	Bytes Received 40,501
	7 days ¹ Month ¹	93,967 93,967	420 420	7 days ⁰ Month ⁰	1,513,468 1,513,468	6,732,694 6,732,694

SYSTEM INFORMATION

These three columns contain identifying information about your SkyLink device, such as its serial and model number, current hardware and firmware versions, and capabilities. It also includes satellite and cellular IMEI/SIM card numbers and current temperatures.

SATELLITE & CELLULAR

Find satellite and cellular modem signal strength and data here. 'On Net' is the current percentage of data that has crossed the interface. It is calculated by adding satellite and cellular usage totals and dividing that number of bytes by the interface's number of bytes.

Each section shows a table with your device's data usage across a 24 hour, 7 day, and first-of-themonth period. Usage tables are an estimate; minimum sessions are rounded to 5,000 bytes.

General Settings

This screen allows you to make configurations such as renaming your SkyLink device, changing the password, and turning your satellite, cellular, and WiFi capabilities on and off. Click 'Reboot' at the bottom of the screen to restart your device, if needed. Ensure the WiFi toggle slider is switched off.

***Remember to click the 'Save' button in the bottom right-hand corner to apply any changes. ***

SkyLink		Blue Sky I	Network		[→ Logout
.ull Status *a Configuration 호 General Settings 호 Connection Manager 뮮 Network ① Firewall	SkyLink Asset Tr	ag: Test 12345		Max Daily Usage:	bytes Change Password
 Prevail Remote Management Serial to IP SNMP Voice Extensions Accessories 	Satellite Satellite Enab	led: 🚺 Data Enabl	ed:		
Data & Tools	WiFi			Cellular	
J Calls	SSID:	DragonsInc		APN:	em
🗙 Diagnostics	Mode:	5 GHz	~	Username:	Optional
 System Log Advanced 	Country:	USA	~	Password:	Optional
P Help	Channel:	Auto	~	IMEI:	861364040178400
Licenses	Security:	WPA2-PSK		SIM:	8988303000052347330
	Password:	•••••	8	Network:	AT&T
	Reboot	Scan to Connect			Cancel Save

SKYLINK

Edit your device name in the Asset Tag field and set a maximum limit for the SkyLink device's daily data usage in the Max Daily Usage field.

NOTE: Iridium QoS (also called Iridium secondary data flows) are not supported on Certus 100; therefore, BSN cannot offer per-stream priorities or VLANs over the Iridium link.

SkyLink		Blue Sky Network	,	[→ Logout
,ıı Status ◆a Configuration ☆ General Settings ☆ Connection Manager 금 Network	SkyLink Asset Tag:	3421 tseT	Max Daily Usage:	bytes
 Firewall 		Type in the curre then the new pas Press 'Change Pa	ssword twice.	

SATELLITE

The toggle slider on the left allows you to turn satellite capabilities on and off. Once your satellite and cellular SIM cards are activated, you can freely switch back and forth between the two. The right-hand slider will enable or disable data transferring.

	nent Satellite Satellite Enabled	Data Enabled:			
🗩 Voice Extensions					

NOTE: Satellite internet connection supports messaging apps, IoT data transfer, and mobileoptimized web surfing (visit Iridium.com/mobile for a list of mobile-optimized sites). It is not intended for general web browsing or high bandwidth applications.

Connection Manager

In the top section, the drop-down menu allows you to prioritize data routing (Satellite Only, Cellular Only, Cellular then Satellite). Changes are applied immediately.

Under the Firewall Profile section, enable or disable applications from connecting to the internet by choosing from a list of predefined rules. View the current profile, including its description and affiliated apps, here. Use the drop-down menu to choose between profile options and click 'Save.'

NOTE: When using the Firewall Profile, complete functionality may not be available on all apps (e.g., WhatsApp messaging will be unblocked, but not WhatsApp voice calling). These restrictions can be unblocked by creating a custom rule on the <u>Firewall</u> screen. You can also try making configurations in the app itself or reach out to your corporate MDM platform.

SkyLink	Blue Sky Network	[→ Logout
Image: status ◆a Configuration ☆ General Settings ☆ Connection Manager 器 Network ① Firewall	Internet Data Routing Select how to prioritize data routing over the satellite and cellular connections. Data Routing: None	~
 Remote Management Serial to IP SNMP Voice Extensions Accessories Data & Tools Calls 	Firewall Profile SkyLink by default blocks most outside (Internet) network traffic, and needs to be told what traffic it should allow. Fire Profiles are sets of predefined rules that allow common network traffic. These profiles are an easy way to setup your Select a profile to learn more about what traffic it allows. The profile won't be applied until you click Save. Profile: 0. Blocked Description Blocked	
 Diagnostics System Log Advanced 	Blocks all network traffic to the Internet. Click to see all profiles and their details.	Save
? Help ፴ Licenses	Cance	Save

Network

This screen provides options to configure your network settings. Use the LAN section to change the gateway or internal IP address on your network and set primary and secondary DNS addresses.

The DHCP section allows you to choose your lease validity (from 5 minutes to 1 year) and configure a range of IP addresses that you would like to use. The toggle slider enables and disables DHCP.

Click 'Connected Devices' in the bottom section to define a static DHCP lease for an existing device, or press 'Add' to manually define a new one. A MAC address, IPv4 address, and hostname are required. Once created, click the blue pencil icon to edit.

SkyLink		Blue Sky Netwo	rk		[→ Logout
Image: Image	Network Mask: 25	2.168.111.1 5.255.255.0 3.8.8	Se	condary DNS:	8.8.4.4
 ∠ Serial to IP ⊇ SNMP P Voice Extensions ☆ Accessories ★ Data & Tools ✓ Calls 	DHCP DHCP Range Start: Lease Validity:	192.168.111.50 5 minutes	> DHC	CP Range End:	192.168.111.249 Cancel Save
 ✗ Diagnostics ⇒ System Log Idvanced ? Help ▲ Licenses 		IPv4 Address I	Hostname to define a new static	Tag Comm	ਤੌਰ Connected Devices
	define a static lease for	a connected device.			+ Add
Connected Devices					×
Vendor Host Name Apple, Inc.	MAC Address F0:18:98:F0:22:48	IP Address E: 192.168.111.81	xpiration Time	Last Seen 2023/4/13 20:38	3:44 UTC 🝙

Firewall

The SkyLink Device Interface enables you to set incoming and outgoing network traffic from specified applications/hosts. The two tabs on this screen allow you to make these configurations.

NOTE: Use the SkyLink Cloud Services portal to apply custom rules to a fleet of SkyLink devices.

WHITELIST

A list of approved host names and IP addresses can be found here. Press 'Add Host Name' or 'Add IP Addresses' to allow incoming and outgoing traffic from other applications/hosts. All other traffic is blocked. Click the red trashcan next to each field to remove the data.

SkyLink	Blue Sky Network	C→ Logout
III Status Configuration General Settings Connection Manager Rework Firewall Remote Management Serial to IP SNMP Voice Extensions Voice Extensions	Firewall Whitelist Port Forwarding Whitelist Port Forwarding Whitelist Allow traffic for other applications/hosts by adding the IP address of the thost will be allowed. Image: The whitelist currently only works with Firewall Profile to select profile 7 in the Connection Manager.	dress or host name below. All traffic (incoming and outgoing) 7 (Whitelist). In order for these settings to work, you need
 Accessories Data & Tools Calls Diagnostics System Log Advanced 	Host Names test.com blueskynetwork.com skyrouter.com	IP Addresses 192.168.125.2
? Help 죤 Licenses	Host name + Add Host Name	IP Address + Add IP Address Cancel Save

NOTE: You must select Firewall Profile number 7 on the <u>Connection Manager</u> screen to apply these settings.

PORT FORWARDING

On this tab, click the 'Add' button to create rules for forwarding incoming connections to devices on the local network. Once a rule is created, select the pencil icon to edit or the red trashcan to delete.

We recommend contacting Blue Sky Network support for assistance with custom rule creation.

SkyLink			Blue Sky N	letwork				[→ Logout
ااا Status کی Configuration ت General Settings	Firewall	Port Forwarding						
	Port For Forward incomyour network	prwardir	s to devices on t ors or cause you	the local network to lose connecti		-		
 SNMP Voice Extensions Accessories Data & Tools Calls Diagnostics System Log 		Source ules have been o	Destination lefined.	Source Port	Dest. Port	Protocol(s)	Comment	Actions + Add
? Help I∆ Licenses	Sour Destinati F	Source: Int Address: WV rce Port: Ion Port: Protocol:	rward ernet VW.XXX.YYY.ZZ ptional)	Z			as up 	
L					× Can	cel 🖬 Sav	ve	

Remote Management

This screen provides configuration options for IoT management via the SkyLink Cloud Services portal, including enabling and disabling position reports, remote device management, and status reports. Use the drop-down menus to set reporting, syncing, and check-in frequencies.

SkyLink	Blue Sky Network	[→ Logout
.ııl Status ◆g Configuration ◆ General Settings ◆ Connection Manager 册 Network ⑦ Firewall ④ Remote Management 값 Serial to IP 二 SNMP 값 Accessories	Remote Management Position Reports Enabled: Position Report Interval: 24 hor Remote Management Enabled: Remote Management Interval: 24 hor Status Reports Enabled: Status Report Interval: 24 hor Call History Enabled: Call History Upload Interval: 24 hor Usage Upload Enabled: Usage Upload Interval: 1 hour Configuration Sync Interval: 24 hor	urs × Run urs × Send urs × Send r × Upload
 ★ Data & Tools ★ Diagnostics 	These fields are set to 24 hours by default and can be adjusted to different intervals ranging from 1 minute to 7 days, depending on the menu. Some allow for custom frequencies as well.	Cancel Save

Below is a description of each interval category and their meaning:

- *Position Report* How often the device sends a position report to the portal and SkyRouter.
- *Remote Management* How often the device checks with the portal to see if it needs to complete any tasks, such as a firmware update, factory reset, or reboot.
- *Status Report* How often the device sends operational information, such as health and data usage, to the portal.
- *Call History Upload* How often the device sends the unit's call log information to the portal.
- *Configuration Sync* How often the device checks if the portal has requested a configuration change.

SNMP

On the Simple Network Management Protocol (SNMP) screen, click the toggle slider to view the community strings; these fields are disabled by default for security purposes. Note that these fields are currently unable to be edited.

SkyLink		Blue Sky Network	C→ Logout
.ııll Status ◆a Configuration ✿ General Settings ✿ Connection Manager 금 Network ● Firewall	SNMP Read Only Community: Read/Write Community:		\bigcirc
 Remote Management Serial to IP SNMP Accessories Data & Tools Diagnostics System Log Advanced Help Licenses 			Cancel Save

Voice Extensions

Find mobile and landline phone information and configuration settings here. The username and password are the respective extension number; these can be changed on this screen.

The Inbound Line(s) column shows the order in which line numbers ring when a call comes in. By default, the first extension (shown below as 510) allows calls to both Line 1 and Line 2, the next 10 extensions allow calls to Line 1 only, and the following 10 to Line 2 only. The Outbound Line column is set to Any Available by default.

SkyLink			Blue	e Sky Network	>			[→ Logout
,ıı Status	SIP E	xtension	5					
 Configuration General Settings 	Extensi	on Descriptio	n Inb	ound Line(s)	Outbound Line	Username	Password	Actions
ゆ Connection Manager 器 Network	510		Lin	e 1 Line 2	Any Available	510	510	C
Firewall	511		Lin	e 1 Line 2	Any Available	511	511	C
 Remote Management Serial to IP 	512		Lin	e 1 Line 2	Any Available	512	512	C
SNMP	513		Lin	e 1 Line 2	Any Available	513	513	Ľ
Accessories	514		Lin	e 1 Line 2	Any Available	514	514	Ľ
💥 Data & Tools 🥑 Calls	515		Lin	e 1 Line 2	Any Available	515	515	C
 Diagnostics System Log 	516		Lin	e 1 Line 2	Any Available	516	516	ß
 System Log Advanced 	517		Lin	e 1 Line 2	Any Available	517	517	C
? Help බු Licenses		5 Extensio	ons					
	Region:	USA / Canada			~			
se this field's	Line	Extension	Туре	Description	Inbound		Outbound Line	
op-down menu select region-	1	500	N/A	POTS #1	Line 1	Line 2	Line 1	C
ecific dial tones, nging tones, etc.	2	501	N/A	POTS #2	Line 1	Line 2	Line 2	Ľ

EDITING A SIP OR POTS EXTENSION

Click the *icon* next to the SIP or POTS extension that you would like to edit. In the pop-up window, complete the fields and add a description if desired, then press 'Save.'

Edit SIP Extens	ion	×	Edit POTS Exte	nsion		×
Extension: Inbound Line(s): Outbound Line:	510 Since 1 Since 2 Since 2 Since 2	×	Extension: Adapter Type:	500 N/A		
Username: Password:	510 510	·	Inbound Line(s): Outbound Line:	Line 1 Line 2		The SkyLink device will detect if an FXS
Description:			Description:	POTS #1		or FXO adapter is being used.
	Cancel	Save			Cancel	Save

Under the Inbound Line(s) field, tick each box to allow calls to both Line 1 and Line 2. Deselect both lines to block calls from ringing to an extension. **NOTE**: If you are not receiving calls to your extension, ensure one or both lines are selected here.

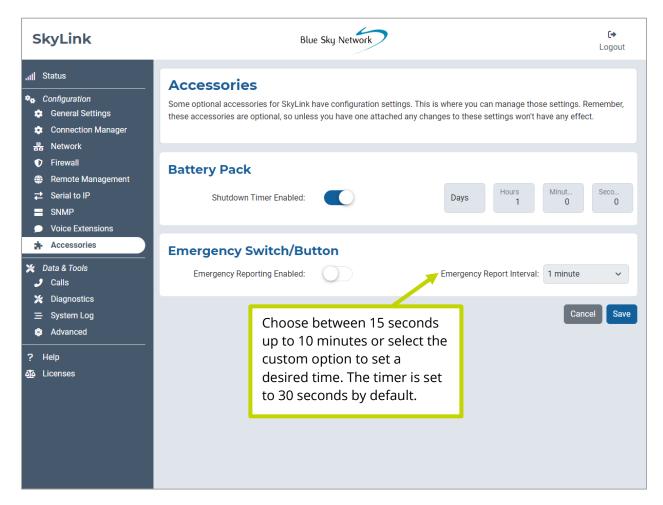
Use the drop-down menu in the Outbound Line field to choose whether Line 1, Line 2, or Any Available line can be used when making a phone call from this extension. A scenario for only selecting one line would be a ship captain who has Line 1 reserved, and the crew uses Line 2.

NOTE: Selecting only Line 1 or Line 2 in the Inbound Line(s) field along with the Any Available option in the Outbound Line field may cause issues when returning calls. For example, if only Inbound Line 1 is selected and you dial on Any Available Outbound Line, you may dial out on Line 2; this would leave someone unable to return your call.

Accessories

This screen allows you to optimize settings for your SkyLink Battery Pack and SOS button. Please note that these are optional accessories; changes made on this screen will only be implemented if the corresponding accessory is attached to the SkyLink device.

NOTE: Ensure the automatic shutdown timer under the Battery Pack section is disabled by moving the toggle slider to the left. Move the toggle slider in the Emergency Switch/Button section to the right to send an SOS event with GPS location to SkyRouter. Click the drop-down menu to configure how often these reports are sent.



Calls

A list of incoming and outgoing calls by extension number (shown below as Source) can be found here. It also includes the day and time that the call was placed, its total vs. expected billable duration, and whether or not it was answered. **NOTE**: Internal calls will not generate an Iridium bill.

Each call is assigned a unique ID number that can be provided to the Blue Sky Network support team for troubleshooting purposes in the event that there is a call issue.

	Blue Sky Network						[→ Logor	
II Status	Call Log							
 Configuration General Settings 	Date	Source	Destination	Line	Total Duration	Billable Duration	Disposition	Call ID
Connection Manager	4/13/23 2:14 PM	510	777		00:00:04	00:00:04	ANSWERED	1681420454.4
器 Network ① Firewall	4/13/23 2:13 PM	510	777		00:00:06	00:00:06	ANSWERED	1681420434.0
 Remote Management Serial to IP SNMP Voice Extensions Accessories Data & Tools Calls Diagnostics 								
 System Log Advanced Help Licenses 								

Diagnostics

Here you will find information to help you diagnose and resolve satellite and cellular issues.

SYSTEM INFORMATION

This first section provides diagnostics that you may be asked for in the event that you report a technical issue to the Blue Sky Network support team. Data points may be shown for POE only, EXT (external 12V power) only, or both.

Data points about the supercapacitor (shown below as Super Cap.) can be found here. A check mark under Power Good means good power is detected to charge the Super Cap. A red 'x' under Fault indicates a power fault in the unit.

SkyLink			Blue Ski	y Network	7					[→ Logout
,,,, Status	System I	nformat	ion							
Configuration	Serial Number	Model	Hai	dware	Fin	mware	Capab	ilities	System Time	9
🔹 General Settings	0000-0016	SkyLink 5100	SYN2	67 REV F	2.25-23	0116-2253	land,	/oice	2023/4/13 21:17:0	1 UTC
Connection Manager		-								
器 Network	Voltages								Super Cap	
Firewall		3.3V	4.1V	5V	12V	EXT.	POE	POE+	Power Good	Fault
Remote Management								PUET		Fault
Z Serial to IP	Current Reading	3.36	4.053	4.972	12.155	20.443	0.022		~	
SNMP										

SATELLITE & CELLULAR INFORMATION

Nodem					
Serial Numb	er Firmware Ver	sion API Version	Enabled	Data Enabled	IMEI
y000dp	1.3.1	1.2.0	~	~	300058060001420
IM					
Present	Connected	ICCID			
~	~	898816977100029544	15		
rovisioning					
Valid	Fully Compatible	Messaging	Data Vo	ice	
~	√ v	√	✓ >		
Cellular	Informatio	n			
		n	Model		IMEI
<i>l</i> odem	Manuf		Model EM06-A	8	IMEI 61364040178400
lodem Enabled ✓	Manuf	acturer		8	
Aodem Enabled ✓	Manuf	acturer		8	
Aodem Enabled M SIM	Manuf	f acturer actel			
Aodem Enabled ✓ IM SIM Present	Manuf Que SIM ICCID A	f acturer actel	EM06-A	SPN	
Addem Enabled V IM SIM Present V 8988:	Manuf Que SIM ICCID A	facturer ectel PN IMSI	EM06-A	SPN	
Vodem Enabled SIM SIM Present 8988: Signal	Manuf Que SIM ICCID A	f acturer actel PN IMSI rm 295050900810292	EM06-A	SPN Mnify	

NOTE: Cellular is disabled on SkyLink Citadel.

Use the check marks in these sections to verify that your satellite and cellular capabilities are enabled. Data related to the satellite and cellular modems, SIM cards, satellite provisioning, and cellular signal are available here as well.

NETWORK TROUBLESHOOTING

Here you can use the Operation drop-down menu to perform pings and trace routing. Press the 'Execute' button to apply the configurations. Results will be displayed in the section below.

Operation Ping	~	Network Interface Cellular	~	Number of Pings 5	Network Address	Execute
Results:						

System Log

The information displayed on the System Log screen can be used by the Blue Sky Network support team for diagnostic purposes. Use the toggle slider to enable or disable automatic updates.

SkyLink	Blue Sky Network	[↔ Logou
ıl Status	System Log 📭	Auto-Update
Configuration		
🔅 General Settings	=0 MARK=0×10000	
🔹 Connection Manager	Apr 13 21:12:04 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
-	Apr 13 21:12:04 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
器 Network	Apr 13 21:12:05 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
Firewall	Apr 13 21:12:05 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
	Apr 13 21:12:05 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
Remote Management	Apr 13 21:12:05 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
Z Serial to IP	Apr 13 21:12:05 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
•	Apr 13 21:12:05 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t Apr 13 21:12:05 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
SNMP	Apr 13 21:12:05 tpb kern.info kernel: firew1:het-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t Apr 13 21:12:06 tpb kern.info kernel: firew1:het-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
Voice Extensions	Apr 13 21:12:06 tpb kern.info kernel: firew1:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
-	Apr 13 21:12:06 tpb kern.info kernel: firew1:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
🕂 Accessories	Apr 13 21:12:06 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
-	Apr 13 21:12:06 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
🛠 🛛 Data & Tools	Apr 13 21:12:06 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4k	
🤳 Calls	Apr 13 21:12:06 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
🗶 Diagnostics	Apr 13 21:12:07 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
	Apr 13 21:12:07 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
😑 System Log	Apr 13 21:12:07 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	
Advanced	Apr 13 21:12:07 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4k	
a Auvanceu	Apr 13 21:12:07 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	:0a:10:7b:44:93:30:72:0
-	Apr 13 21:12:07 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4b	:0a:10:7b:44:93:30:72:0
P Help	Apr 13 21:12:07 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	:0a:10:7b:44:93:30:72:0
Licenses	Apr 13 21:12:07 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	:0a:10:7b:44:93:30:72:0
	Apr 13 21:12:08 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	0:0a:10:7b:44:93:30:72:0
	Apr 13 21:12:08 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	:0a:10:7b:44:93:30:72:0
	Apr 13 21:12:08 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	:0a:10:7b:44:93:30:72:0
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	Apr 13 21:12:08 tpb kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	0:0a:10:7b:44:93:30:72:0
	Apr 13 21:12:08 tob kern.info kernel: firewl:net-fw:DROP IN=wan0 OUT= MAC=8c:ae:4c:d6:4t	:0a:10:7b:44:93:30:72:0 *

Advanced

Use this screen to backup or restore a system configuration, or when the system is ready to be updated. SkyLink firmware includes the 9770 Certus modem firmware; appropriate versions will be upgraded or downgraded as needed. **NOTE**: Blue Sky Network will not downgrade the Certus 9770 modem firmware unless specifically required by Iridium.

NOTE: The <u>Status</u> screen displays the SkyLink's current firmware version and the <u>Diagnostics</u> screen shows the current 9770 Certus modem firmware version.

SkyLink	Blue Sky Network	[→ Logout
III Status ・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	Backup/Restore Configuration Choose File No file chosen	Download Configuration Upload Configuration File
 ♥ Firewall ♥ Remote Management ⇒ Serial to IP ■ SNMP ♥ Voice Extensions ⇒ Accessories > Data & Tools ↓ Calls ★ Diagnostics 	System Update Check for Updates Manual Upload Select Update File: Choose File No file chosen	Upload Firmware
 	Factory Reset Click here if you would like to reset all settings to factory defaults. Type "reset" in the pop-up box. Your device will then reboot.	Factory Reset? × A Warning! All changes will be lost! Factory Reset will reset all parameters back to factory defaults. Enter the word reset below to continue. Cancel Reset

REBOOT THE SKYLINK CITADEL SYSTEM

To reboot the SkyLink Citadel system, disable the power at the battery by pressing the battery off button. It is important to wait at least 120 seconds for the power to completely shut off. To power back on, press and hold the button for 60 seconds. The power LED indicator will be green once the system is ready to use.

BACKUP/RESTORE CONFIGURATION

To back up a configuration, press 'Download Configuration' and then reboot the Citadel system. To restore, click 'Choose File,' then select the appropriate .tpz file from your computer/personal device. Click 'Save,' then press 'Upload Configuration File' and reboot the Citadel system.

	Download "skylink_config.json"?	G
	File Name: skylink_config.json File Size: Unknown Host: http	Logout
Backup/Restore Configu		Download Configuration
Choose File No file chosen		Upload Configuration File

SYSTEM UPDATE

NOTE: We recommend updating firmware using an ethernet cable.

NOTE: If updating a fleet of devices, save time by using the SkyLink Cloud Services portal.

When the system is ready to be updated, you'll see the new version listed under the Check for Updates section. There are two ways to perform an update. First, you can simply click 'Download & Install.' A download progress bar will show you the percentage to completion.

 Remote Management Serial to IP SNMP Voice Extensions Accessories Data & Tools Calls Diagnostics System Log 	System Update Check for Updates Current Version 2.25 Manual Upload Select Update File: Choose File No file chosen	Suggested Version 2.27	Download & Install Upload Firmware
Advanced	depending on current co	ding. This could take several minutes	

Alternatively, click the 'Choose File' button under the Manual Upload section. Locate and select the appropriate .tpz file, then press 'Upload Firmware' to start the firmware upgrade process.

0	Firewall							
ا ھ	Remote Management	System U	Jpdate					
	Serial to IP	Check for	-					
	SNMP		nt Version	Currented Version				
•	Voice Extensions			Suggested Version				
* /	Accessories		2.25	2.27			Download & Insta	
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× 1	Diagnostics	Select Update F	ile:					
= :	System Log	Choose File	No file chosen				Upload Firmwar	re
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		🖈 Quick access	Name	Date modified	Туре	Size		
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							1 (* *)	
		File n	ame: skylink-2.11.tpz				iles (*.*)	~
							Open Canc	ei

Once the firmware upload is complete, a green success message will appear in the right corner.

	Blue Sky Network	C ♦ Logout			
Backup/	Restore Configuration	 Upload Successful! Firmware update successfully uploaded. SkyLink will now reboot. 			
Choose File	No file chosen	Upload Configuration File			
System Update Select Update File:					
Choose File	No file chosen	Upload Firmware			
Factory Reset					

You will then need to reboot SkyLink Citadel system.

Select Configuration File:		Discos weitwhile the Olad isk schoots	C	
Choose File	No file chosen	Please wait while the SkyLink reboots		Upload Firmware

Once the web browser refreshes and the power LED indicator shows a steady green light, the update has finished, and your system is ready to use.

Help

This screen contains multiple resources, including the SkyLink User Guide and contact information for the Blue Sky Network support team, to help you troubleshoot hardware and firmware issues. A full list of FAQs can also be found at the end of this user guide.

SkyLink	Blue Sky Network	€ → Logout
Image: status Image: status <td< th=""><th><section-header><section-header> About SkyLink Data by Blue Sky Network is the inaugural Iridium Certus 100 mid-band solution for fand mobile, aviation, IoT, and maritime markets. This small-form, multi-stack hardware is designed for any fixed-mount, portable, or mobile application and offers a range of service configurations. Wret Bue Sky Network is the inaugural Iridium Certus 100 mid-band solution for fand mobile, aviation, IoT, and maritime markets. This small-form, multi-stack hardware is designed for any fixed-mount, portable, or mobile application and offers a range of service configurations. Wret Beatter monitoring Sensor/engine diagnostics Network services (VPN, IP, MOTT) Pretalation Server 15 & 25 Certified Binportant that the Iridium-approved antennas be mounted with an unobstructed, full view of the sky and away from other radiating antennas that may cause interference. Please see the SkyLink Installation Guide for suggested device/antena mounting locations and detailed steps on equipment installation. Duble Studes Studes Mode Mote Studes New LED Indicator on the top panel of the unit cycles through multiple colors is loads: Sue and Power OR Ne de Unit in Bootloader Mote Studes Mote Studes In Studes</section-header></section-header></th><th>Resources User Guide Install Guide Contact Support 1 1 858-551-3894 Support@blueskynetwork.com Help Center</th></td<>	<section-header><section-header> About SkyLink Data by Blue Sky Network is the inaugural Iridium Certus 100 mid-band solution for fand mobile, aviation, IoT, and maritime markets. This small-form, multi-stack hardware is designed for any fixed-mount, portable, or mobile application and offers a range of service configurations. Wret Bue Sky Network is the inaugural Iridium Certus 100 mid-band solution for fand mobile, aviation, IoT, and maritime markets. This small-form, multi-stack hardware is designed for any fixed-mount, portable, or mobile application and offers a range of service configurations. Wret Beatter monitoring Sensor/engine diagnostics Network services (VPN, IP, MOTT) Pretalation Server 15 & 25 Certified Binportant that the Iridium-approved antennas be mounted with an unobstructed, full view of the sky and away from other radiating antennas that may cause interference. Please see the SkyLink Installation Guide for suggested device/antena mounting locations and detailed steps on equipment installation. Duble Studes Studes Mode Mote Studes New LED Indicator on the top panel of the unit cycles through multiple colors is loads: Sue and Power OR Ne de Unit in Bootloader Mote Studes Mote Studes In Studes</section-header></section-header>	Resources User Guide Install Guide Contact Support 1 1 858-551-3894 Support@blueskynetwork.com Help Center

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・III Status	License Information SkyLink utilizes third-party software, including open source software. This so useful, but WITHOUT ANY WARRANTY. Additional information regarding licenses, acknowledgements and required of be found below.	
 Remote Management Serial to IP SNMP Voice Extensions Accessories 	System Components Application Components UI Components	~ ~ ~
 Data & Tools Calls Diagnostics System Log Advanced 		(+
SkyLink GPL- III Status Configuration General Settings Connection Manager Network Firewall Remote Management Serial to IP Voice Extensions Accessories X Data & Tools Calls Diagnostics System Log Advanced Help Licenses	<page-header><section-header><section-header><section-header><section-header><text><text><text><text></text></text></text></text></section-header></section-header></section-header></section-header></page-header>	★ Logout ♦ hope that it will be Nird-party software can ✓

SKYLINK CAPABILITIES

Now that you are familiar with the SkyLink Device Interface, you are ready to use your device! The following describes the most common device capabilities.

Making Phone Calls

A dual POTS adapter is installed on the SkyLink Citadel system, and 2 satellite phone lines can be used. An analog/POTS device will need to be connected when routing the second phone line to other areas of the vessel, including the bridge.

Before making a phone call, ensure the following is completed:

- You have properly installed your activated Iridium SIM card.
- You have the Iridium-approved MARUWA (MHL-1621C) antenna connected to the SkyLink device.
- You have enabled satellite capability by navigating to the Connection Manager screen on the SkyLink Device Interface and sliding the left-hand toggle button.

You are now able to make inbound and outbound calls. Simply dial the country code, then the area code and phone number to place a call. Use the Voice Extensions screen on the SkyLink Device Interface to configure line extensions and the Calls screen to view call details.

RJ-11/POTS Buttons

ON/ OFF BUTTON

Use this key to initiate or answer an incoming call. When the key is pressed and turns green, you will hear a continuous dial tone. Enter the dialing sequence on the numbered keypad and press the pound '#' key. The Iridium "bleeps" will be heard, followed by ringing of the party being called.

To answer an incoming call, hold the key until it turns green. The phone must be turned off to receive incoming calls.

RINGER VOLUME SWITCH

This switch turns off the incoming ringer and sets the desired incoming ring volume to OFF – LOW – HI.

VOLUME CONTROL

Toggle the volume level of the phone's speaker in 3 steps: LOW – MED – HI. Press this button to repeatedly cycle through these settings.

POUND / HASH KEY (#)

This key must be pressed to initiate an entered dialing sequence.



OPTIMIZING SIP PHONE APPS

Below are a few setup pointers for SIP phone apps (e.g., GS Wave, Linphone).

iPhone/Android settings:

- o Airplane mode
- Smartphone Settings > Wave Lite App > Enable 'Local Network' access
- Smartphone Settings > Wave Lite App > Disable 'Cellular Data'

GS Wave settings:

- 'WiFi only' mode enabled
- Account Name: 510 (510-516 available default)
- SIP Server: 192.168.111.1 (unless SkyLink Device Interface IP has been changed)
- o SIP User ID: 510
- Authentication ID: 510
- Password: 510

Additional settings for other SIP phone apps (Linphone, etc.):

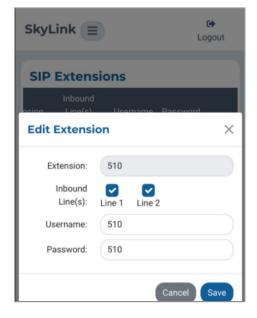
• Codecs (if setting is available): Enable – A-LAW, 722. Disable – U-LAW

NOTE: If using a physical SIP phone (not a SIP phone app), please see your SIP phone manufacturer's documentation for information on configuring the phone with your SkyLink device.

If you are not receiving incoming call notifications on SIP extensions, it may be that the SIP extension you are using is not configured to receive incoming calls from the Iridium line you are calling.

To configure both lines:

- 1) Navigate to the <u>Voice Extensions</u> screen.
- 2) Click the *icon* next to the SIP or POTS extension that you would like to edit.
- 3) Ensure that both boxes in the Inbound Line(s) field are ticked, then click 'Save.'



Connecting to the Internet

To connect to the internet, first ensure that:

- You have properly installed your activated Iridium and cellular SIM cards.
- You have connected the Iridium-approved MARUWA (MHL-1621C) antenna to the SkyLink device.
- You are connected to the supplied ethernet cable or optionally, using a third-party WiFi module.
- Satellite capabilities have been enabled via the toggle sliders on the Connection Manager screen of the SkyLink Device Interface.

You are now able to use smart devices and mobile applications.

NOTE: Satellite internet connection supports messaging apps, mobile-optimized web, and IoT data transfers. It is not intended for general web browsing or high bandwidth applications and may cause slow connection speed if used for these purposes. Please visit Iridium.com/mobile for a list of mobile-optimized sites.

SKYLINK SPECIFICATIONS & INSTALLATION

Technical Specifications

CONNECTIVITY

Cellular

- LTE-A CAT 12 module with M.2 form factor •
- Supports LTE-A carrier aggregation
- Worldwide LTE-A and 3G UMTS / HSPA(+) • coverage
- 600 Mbps receive (DL) / 150 Mbps transmit (UL) •
- User-accessible SIM

Iridium Certus® 100

- Simultaneous voice and IP data •
- 88 Kbps receive (DL) / 22 Kbps transmit (UL) •
- Frequency: 1616 MHz 1626.5 MHz •
- 2 high-quality voice channels •
- User-accessible SIM

Positioning

- Multi-constellation GNSS receiver in cellular module:
 - 0 GPS
 - GLONASS 0
 - BeiDou 0
 - 0 Galileo
- 33 tracking channels
- 99 acquisition channels
- 210 PRN channels
- Anti-jamming and multi-tone active interference • canceller
- < 2.5 m CEP horizontal position accuracy •

MECHANICALS

Size & Weight

- Dimensions: 8.0 x 5.0 x 1.5 in. (12.7 x 20.3 x 3.2 cm)
- Weight: 1.6 lbs. (0.7 kg)

LEDs

- Single multi-purpose, multi-color LED:
 - Green = Initial Power On
 - Red = Unit in Bootloader Mode 0
 - Blue Blink = OS is Booting 0
 - Blue Steady = Device is Ready
 - 0 Red Blink = Iridium Firmware Upgrade
 - Blue Blink = SkyLink Firmware Upgrade

Connectors

- 1x cellular SMA female connector
- 1x Iridium SMA female connector
- 1x POTS connector

OPERATING PARAMETERS

Electrical •

- External power:
 - o 10 34 VDC
- Power consumption:
 - o 7W nominal power
 - 18W peak power 0

Environmental

- Operating temperature range: -40°C to +70°C •
- Storage temperature range: -40°C to +85°C •
- Operating humidity range: ≤ 75% RH
- Storage humidity range: ≤ 93% RH

Regulatory Standards & Compliance

- US (FCC) •
 - EU (CE MARK)
- Canada (IC)
- Brazil (ANATEL) . DO-160G

IP65 rating

•

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Software Specifications

CONFIGURATION

- Local configuration of SkyLink devices using WiFi or Ethernet
- Remote configuration of SkyLink devices, features, and settings
- Bulk device configuration
- DHCP server, client, or static IP address
- WiFi SSID and password
- POTS and SIP voice extensions

Internet

- Cellular internet
- Satellite internet
- Ability to fail-over
- Ability to disable satellite data but not voice communication

Firewall

- Firewall Profiles for quick and easy firewall setup
- Advanced rules that allow customers to add functionality beyond the set profiles

Voice

- Support for up to 2 FXS / FXO USB adapters
- Support for up to 20 SIP clients
- Call logs

REPORTING

- Position and event reporting
- Device data usage
- Network-wide data usage
- Data usage by transmission type
- Data usage by device type
- Device health monitoring
- Network-wide health monitoring
- Device diagnostics
- Customizable report rate

MONITORING

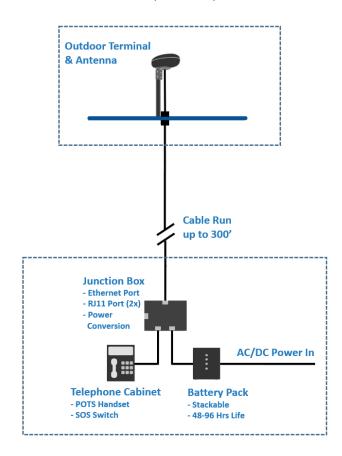
- Device CPU and modem temperatures in real time
- Modem signal strengths in real time
- Modem data usage
- Least-cost routing status
- Voice call logs
- Device location monitoring
- Device health monitoring

Device Management

- View status and customize settings in a web UI
- Firmware upgrade
- Factory reset

Above Deck Unit (ADU) Diagram

As pictured below, the SkyLink Citadel ADU can be mounted on both vertical and horizontal structures, including covert installation atop the ship's funnel.



Installation and Cable Diagrams

It is important that the Citadel ADU be mounted with an unobstructed, full view of the sky and away from other radiating antennas that may cause interference. Please see the SkyLink Citadel Installation Guide for suggested device/antenna mounting locations, detailed steps on equipment installation, and a comprehensive list of cable diagrams.

Troubleshooting

If you are using the maximum cable length of 300', it is required to slow down the ethernet to 10 Mbps, full duplex.

PRODUCT WARRANTY

PLEASE READ -- THIS DOCUMENT CONTAINS IMPORTANT NOTICES, WARRANTY INFORMATION, AND LIMITATIONS ON YOUR RIGHTS.

Upon the signed verification of the attached Quotation (see Equipment Purchase & Service Agreement Terms & Conditions) by the Customer ("**Customer**"), the Quotation and these Terms and Conditions shall constitute a binding contract ("**Contract**") between Customer and Blue Sky Network, LLC, a Delaware limited liability company ("**Blue Sky**") for the purchase of the products and services described in the Quotation.

Product Terms and Conditions

Blue Sky Network, LLC ("Blue Sky") warrants that the Products it manufactured shall be free from defects in materials and workmanship. This warranty (i) shall apply to Customer (as named in the Quotation) only and no other and (ii) shall not apply to any Product which is not stored, handled, installed, or used in strict accordance with Blue Sky's specifications and instruction manuals, or which is altered without Blue Sky's express consent, or which has been subject to misuse, negligence, or accident.

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TECHNICAL SUPPORT

Blue Sky Network is committed to providing the highest level of service and support. If you have any questions or concerns, please feel free to contact us by email or phone; contact information is available at the bottom of this page. For self-help, please visit <u>https://support.blueskynetwork.com/</u>.

Thank you for choosing Blue Sky Network!



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