





Quick Start Guide

Aprisa SR+ Protected Station v2

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1. Introduction

The Aprisa SR+ Protected Station is fully monitored hot-standby and fully hot-swappable product providing radio and user interface protection for Aprisa SR+ radios. The RF ports and interface ports from the active radio are switched to the standby radio if there is a failure in the active radio.

The Aprisa SR+ Protected Station is comprised of an Aprisa SR+ Protection Switch and two standard Aprisa SR+ radios mounted in a 2U rack mounting chassis.

All interfaces (RF, data, etc.) are continually monitored on both the active and standby radio to ensure correct operation. The standby radio can be replaced without impacting traffic flow on the active radio.

The Aprisa SR+ radios can be any of the currently available Aprisa SR+ radio frequency bands, channel sizes or interface port options. The Aprisa SR+ Protected Station can operate as a base station, repeater station or remote radio.

This guide provides a quick startup and basic installation instructions for the Aprisa SR+ Protected Station shown in the next figure below.

A more detailed User Manual is also available. Refer to the User Manual for important warning, cautions and notes and any detailed management relating to fault, configuration, maintenance, performance monitoring, and security.

Front Panel Connections



Example: 2 Ethernet port and 2 serial ports.

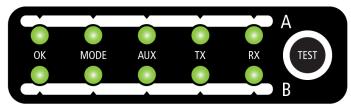
All connections to the radio are made on the front panel. The functions of the connectors are (from left to right):

Designator	Description
10 - 60 VDC; 4A	10 to 60 VDC (floating) DC input using two Molex 2 pin male screw fitting connectors.
ALARM	Two Alarm ports using RJ45 connectors.
	Used for two alarm inputs and two alarm outputs.
ETHERNET 1 & 2	Two ports of Integrated 10Base-T/100Base-TX layer-3 Ethernet switch using RJ45 connectors.
	Used for Ethernet user traffic and product management.
SERIAL 1 & 2	Two ports of RS-232 serial using RJ45 connectors.
	Used for RS-232 asynchronous user traffic.
Remote Cont A and B	Two remote control ports using a Phoenix 1963447 connector.
	Used to switch-over the radios remotely without visiting the station site.
Auto / Locked	The Hardware Manual Lock switch provides a manual override of the active / standby radio.
MGMT	Two Management ports using USB micro type B connectors.
	Used to access the radio Command Line Interface (CLI).
LED Display Panel	See 'LED Display Panel' below.
TX / ANT	Four TNC, 50 ohm, female connectors for connection of the A and B antenna feeder cables. ANT for half duplex and Tx / RX for full duplex



LED Display Panel

The Aprisa SR+ Protected Station has an LED Display panel which provides on-site alarms / diagnostics without the need for PC.



The LEDs indicate the following conditions:

	OK	MODE	AUX	ТХ	RX				
		Radio has not registered							
Solid Red	Alarm present with severity Critical, Major and Minor			TX path fail	RX path fail				
Flashing Orange		Diagnostics Function Active OTA software distribution	Management traffic on the USB MGMT port						
Solid Orange	Alarm present with Warning Severity		Device detect on the USB host port (momentary)						
Flashing Green	Software Upgrade Successful		Tx / Rx Data on the USB host port	RF path TX is active	RF path RX is active				
Solid Green	Power on and functions OK and no alarms	Processor Block is OK	USB interface OK	Tx path OK	Rx path OK				
LED Colo	ur	Severity							
Green		No alarm - info	No alarm - information only						

	LED Colour	Severity
	No alarm - information only	
	Orange	Warning alarm
	Red	Critical, major or minor alarm

Ethernet and RS-232 RJ-45 LED Indicators

LED	Status	Ethernet Explanation	RS-232 Explanation
Green	On	Ethernet signal received	RS-232 device connected
Orange	Flashing	Data traffic present on the interface	Data present on the interface



2. Installation

The Aprisa SR+ Protected Station is shipped to you in a box containing the following:

- One Aprisa SR+ Protected Station containing two Aprisa SR+ radios pre cabled to the protection switch with product options of:
 - (1) Standard Protected Station single antenna with or without duplexer (part number ends with AE)(2) Dual antenna Protected Station dual antenna with or without duplexer (part number ends with DE)



- Two rack mounting brackets
- Two 2 pin female power connectors
- One 4 pin female remote control connector

2.1. Install the Aprisa SR+ Protected Station and Connect the Protection Earth

The Aprisa SR+ Protected Station is designed to mount in a standard 19" rack.



Rack mounted Aprisa SR+ Protected Station without duplexer

Rack mounted Aprisa SR+ Protected Station with duplexer

The Aprisa SR+ Protected Station has an earth connection point on the bottom right of the chassis. Use the supplied M4 screw to earth the enclosure to a protection earth.

The antenna feeder cable should use grounding kits for lightning protection as specified or supplied by the coaxial cable manufacturer to properly ground or bond the cable outer.



A/R

Note * When the spare Aprisa Protection Switch is supplied (APGS-XPSW-Xpp-FR-SA or APGS-XPSW-Xpp-FR-DA where pp is the port option e.g. 22, 31, 40), the item includes the Aprisa Protection Switch chassis, mounting brackets, 2x power connectors, 1x remote control connector but no radios.

Note: The Aprisa SR+ radio operates within frequency bands that require a site license be issued by the radio regulatory authority with jurisdiction over the territory in which the equipment is being operated. It is the responsibility of the user, before operating the equipment, to ensure that where required the appropriate license has been granted and all conditions attendant to that license have been met.

Hereby, 4RF Limited declares that the Aprisa SR+ digital radio is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the internet address <u>www.4rf.com/library/en</u>.





2.2. Connect the Antenna and Apply Power to the Aprisa SR+ Protected Station

Connect the antenna to the Protected Station antenna port (TNC female connector). If the antenna is not available, terminate the TX/ANT A/B antenna port with a TNC male 50 ohm terminator (10 Watts min). If the Protected Station is the dual antenna option, then both TX/ANT A/B antenna ports / terminators must be connected.

Warning: Do not directly connect the two radio antenna ports without attenuation of at least 40 dB. The receiver can be damaged if signals greater than +10 dBm are applied to the antenna port.

The Aprisa SR+ Protected Station version 2 operates on an input voltage of 10 to 60 VDC floating and consumes up to 42 Watts. Two power connectors (Molex 2 pin female) are supplied fitted to the Protected Station. Wire your power source to the two power connectors (- / +) and plug the connectors into the Protected Station. The connector screws can be fastened to secure the connectors.



Note: The radio fuses will blow if the connected power supply is over voltage, or the polarity is reversed. Spare fuses are located on the Protection Switch board (see the 'Replacing Protection Switch Fuses' section of the Aprisa SR+ User Manual).

Note: The factory default for the Terminal Operating Mode is set to 'Base' for all Protected Stations.

Turn your power source on. All the LEDs on both radios will flash orange for two seconds and then change to:

- Active radio the OK, MODE, AUX, TX and RX LEDs will light green, and the TX and RX LEDs will also flash as traffic is transmitted / received.
- Standby radio the OK, TX, RX and AUX LEDs will light green, and the MODE LED will flash green.



2.3. Connect to the Aprisa SR+ Protected Station (via SuperVisor or CLI)

Ensure that the Hardware Manual Lock switch is set to radio A (this is a factory default setting). This prevents random switching when changing the radio settings.

The Aprisa SR+ primary radio (radio A) in the Protected Station has a factory default IP address of 169.254.50.10 and the secondary Aprisa SR+ radio (radio B) in the Protected Station has a factory default IP address of 169.254.50.20, both with a subnet mask of 255.255.0.0.

- Set up your PC for a compatible IP address e.g. 169.254.50.1 with a subnet mask of 255.255.0.0.
- Connect your PC network port to one of the Aprisa SR+ Protected Station Ethernet ports (1 to 4 depending on product option).

Open a browser and enter http://169.254.50.10.

Note: The Aprisa SR+ has a self-signed security certificate which may cause the browser to prompt a certificate warning. It is safe to ignore the warning and continue. The valid certificate is 'Issued By: 4RF-APRISA' which can be viewed in the browser.

- Login to the primary radio with the default login 'admin' and password 'admin'.
- Each radio in the network and both radios in the Protected Station must be set up with unique IP addresses on the same subnet.

Set the Primary IP address and the Secondary IP address to network compatible IP addresses. Set the Protected Station Virtual IP Address. This is the IP Address of the active radio used in both bridge and router modes. Set the Subnet mask and Gateway.

4RF SUPERVISOR	4RF SUPERVISOR		
LOGIN Please sign in with your username and password.	Station 0	DE AUX TX RX OK MODE AUX TX O O O O O O O O Primary Secondary	
Username	Terminal Radio Serial Summary Details Device	Ethernet IP QoS Security a Date/Time Operating Mode	Mainten
Login			4RF SUPERVISOR
This system is for use by authorized users only	TERMINAL SUMMARY		Protected Base OK MODE AUX TX RX OK MODE AUX TX R
	Terminal Name	Protected Base Station	Station Primary Secondary
	Location	Wellington	Terminal Radio Serial Ethernet IP QoS Security M
	Contact Name	4RF Limited	IP Summary IP Setup L3 Filtering IP Routes
	Contact Details	support@4rf.com	
	Date and Time	30/04/2015 14:57:14	
	PROTECTION INFORMATION	i	NETWORKING IP SETTINGS
	Protection Type	Redundant	Primary IP Address 173.10.1.30
	Active Unit	Primary	Secondary IP Address 173.10.1.31
	Switch Count	0	Protected Station Virtual IP Address 173.10.1.200
	Primary Address	172.10.1.30	Subnet Mask 255.255.0.0
	Secondary Address	172.10.1.31	Gateway 0.0.0

If the IP addresses of radios in the protected station are unknown for some reason, they can be shown or changed via the Command Line Interface (CLI) on the radios MGMT USB ports. USB to UART Bridge VCP Drivers are required to connect the radio USB port to your PC. You can download and install the relevant driver from www.silabs.com/products/development-tools/software/usb-to-uart-bridge-vcp-drivers.

Set the PC serial port to 38,400 baud, 8 data bits, no parity and 1 stop bit, with no hardware flow control.

- Open the protected station drawer by sliding it from the front.
- Connect your PC USB port to the primary Aprisa SR+ (A) MGMT USB port.
- Login to the radio with the default login 'admin' and password 'admin'.
- At the command prompt >> type 'cd APRISASR-MIB-4RF' and enter
- At the command prompt >> type 'ls Terminal' and enter to show the existing IP address
- At the command prompt >> type 'set termEthController1IpAddress xxx.xxx.xxx' and enter to change the IP address.

The Protected Station is configured in the 4RF factory as a protected station. If for some reason it is not setup as a Protected Station, please see 'Creating a Protected Station' in the Aprisa SR+ User Manual.



3. Setup the Aprisa SR+ Protected Station

Login using the IP address of either the primary or secondary radio (do not use the PVIP address for login). All parameters will be automatically synchronized on both radios.

The Aprisa SR+ has a factory default Terminal Operating Mode of Remote Station.

A single radio or a protected station in the Aprisa SR+ network must be set up as a base station. The other radios or protected stations in the Aprisa SR+ network are set up as remote stations or repeater stations.

Set the Ethernet Operating Mode and the Compliance Mode required.

Set the unique radio Network ID to be the same in your entire network including the Base Station ID.

Set the Aprisa SR+ TX Frequency, RX Frequency, TX Power and Channel Size to comply with your site license.

Set the Antenna Port Configuration required.

Terminal	Radio	Serial	Ethern	et I	P	QoS	Security	N		
Summary	Details	Device	Date/	Time	Ор	erating	Mode			
OPERATING MODES										
Termina	Operating N	lode	Base		~		SR Compa	tible		
Ethernet	Operating M	lode	Bridge		~]				
TERMINAL PROTECTION										
Protectio	on Type		[Redund	dant		~			
Automat	ic Periodic S	witch Dura	tion [0	d 0	h	0 m	1		

Terminal	Radio	Serial	Ethernet	IP	QoS	Security
Summary	Details	Device	Date/Time	0	perating I	Mode
RF NETW	ORK DET	AILS				
Network	ID (FAN)		CAFE			
Base Star	tion ID		2			
Network	Radius		1	•		

Terminal	Radio	Serial	Etherne	t IP	QoS	Security
Radio Sumr	mary Cl	nannel Sur	mmary I	Radio Set	up C	hannel Setup
TRANSM	TTER					
TX Freque	ency (MHz)		400	(400 to 4 steps)	470 MHz,	in 6.25 kHz
TX Power	(dBm)		34	(7 to 34	dBm, in 1	dB steps)
RECEIVE	R					
RX Frequ	ency (MHz)		400	(400 to 4	470 MHz.	in 6.25 kHz
	· · · ·			steps)		
GENERA	L					
Channel S	Size (kHz)		12.5 🗸			
Antenna I	Port Config	uration	Single Ante	nna Single	Port	~

You can now configure the remaining protected station and network parameters and settings. For more information, please refer to the Aprisa SR+ User Manual available from the 4RF website <u>www.4rf.com/secure</u> (login required).

Reboot both Primary and Secondary radios and restore the Hardware Manual Lock switch is set to AUTO. The Aprisa SR+ Protected Station is ready to operate.



4RF

4. Monitor the Aprisa SR+ Protected Station Signal Strength

When the network is installed, the radio signal strength can be monitored on remote stations by setting the radio to Test Mode.

To enter Test Mode, press and hold the TEST button on the front panel until all the LEDs flash green (about 3 - 5 seconds).

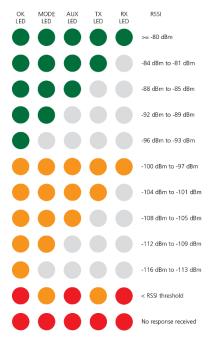
In Test Mode, the LED Display panel presents a real time visual display of the RSSI. This can be used to adjust the antenna for optimum signal strength.

Note: The response time is variable and can be up to 5 seconds.

To exit Test Mode, press and hold the TEST button until all the LEDs flash red (about 3 - 5seconds).

If the network is operating correctly, the LEDs will show:

- Active radio the OK, MODE, AUX, TX and RX LEDs will light green, and the TX and RX LEDs will also flash as traffic is transmitted / received.
- Standby radio the OK, TX, RX and AUX LEDs will light green, and the MODE LED will flash green.



For more information, please refer to the Aprisa SR+ User Manual available from the 4RF website <u>www.4rf.com/secure</u> (login required).

To contact 4RF, go to www.4rf.com/contact/sales.

5. Fault Management and Troubleshooting

The Aprisa SR+ supports extensive alarms for every section and building block of the device including the interfaces. SuperVisor allows user to view the main summary alarm at the top of the SuperVisor page which mimic the device LEDs and in addition all the detailed alarms of the device (see SuperVisor > Events > Alarm Summary). In addition, SuperVisor allows user to troubleshoot any alarm issue by using the event history log page for more information about the alarm (see SuperVisor > Events >

	oS Securi	O O		Defaults					
		Csecondary Constraint Path Constr	Terminal Alarm Sur PRIMA	ed Base Radio Serial mmary Primary Hi RY EVENT HISTORY	Primary Ethernot story Se	IP QoS Security Mainten condary History Events Setup	anco Eve Traps Se	ents Softw up I/O Sel	up Primary Adlons Seconcary Adlons Defaults
Orange stature Threshold Or Styphesizer Hot Loded Or Styphesizer Hot Loded Orange Studeon Orange Studeon		Constant Expression	-	Date/Time C605/2015, 02:07 (C605/2015, 02:01 C605/2015, 02:01 C605/2015, 02:01 C605/2015, 02:01 C605/2015, 02:01 C605/2015, 02:01 C605/2015, 02:01	55 26 23 55 23 30 72	Description Terminal Unit Information User Arthentistation Succeeded Protection Peer Comms Lost Terminal Unit Information Protection Peer Comms Lost Soltware Session Logout Soltware Restart Required	inactive inactive inactive active inactive inactive	information cleared information major information	Additional Information Additional Information SuperVisor, Lines admin, Local with Cik, IP Addr 172 10.1 10 j juinod tha network SuperVisor, Lines admin, Local with Cik, IP Addr 172 10 1 1 Attem Cleared Protection nativing as Addre Comr Local With Peer User Rebool (Mansgement) SuperVisor, User admin, IP Addr 172 10.1 1 Channel With Setting Changed
Protection	Protected Bas	e Adive Unit Primary							Auto Refresh 🦲 Prev 🛛 Pa



Looput ADMIN

6. Performance Monitoring (RF and Data Traffic)

The Aprisa SR+ supports extensive performance monitoring statistics and diagnostic per the device and per data ports. The Aprisa SR+ Terminal, Serial, Ethernet, Radio, and User Selected Monitored Parameter results have history log views for both Quarter Hourly and Daily. SuperVisor allows user to view trends of the performance monitoring parameters in graph or tabular format (see SuperVisor > Monitoring).

For more information see the Aprisa SR+ user manual.

#4RF SUPERVISOR	Aprisa 🚥					
Protected Base Station OK MODE AUX TX RX OK MODE AUX TX RX O O O O O O O O O O O O O O O O O O O	Network					
Terminal Radio Serial Ethernet IP QoS Security Maintenan Terminal Serial Ethernet Radio User Selected TCP Connections R						
	CARF SUPERVISOR		Aprisa 🛽	7		
RADIO PARAMETERS Transmitter Receiver Transmit Path Receive Path	OK MODE AUX TX RX OK MODE AUX TX RX Station O	Network				
Primary Secondary User	Terminal Radio Serial Ethernet IP QoS Security Maintenant Terminal Serial Ethernet Radio User Selected TCP Connections R	ce Events Software Monitoring				
Packets Received 0 0						
Bytes Received 0 0		#4RF SUPERVISOR				Aprisa 🚥
Packets Received in Error 0 0 V	SERIAL PORT PARAMETERS		E AUX TX RX OK MODE AUX			
Dropped Packets (Filtering) 0 0 🗹	Port 1 Port 2 Usb Serial					
oropped by car(manng)	Primany Secondary User			Maintenance Events Software	Ioniforing	
History:Quarter Hourly History:Daily Recot	Meximum Capacity 115 200 bps 115,200 bps Packets Transmitted 0 0 0	Terminal Serial Ethernet				
	Bytes Transmitted D 0					
	Packets Received 0 0	ETHERNET PORT PARAMETE				
	Bytes Received D D					
	Errored Bytos Received D D D	Port 1 Tx Port 1 Rx Po	ort 2 Tx Port 2 Rx			
	Dropped Bytes (Congestion) D D U		Primary Secondary	User		condary User
	History Quarter Hourly History Daily React	Packets	197 0	Packet in Error	0 C	
	History Quarter Hourty History Daily React	Bytes	55,652 0	Bytes In Error	0 0	
	History Gueter Hourly History Dolly [React]	Bytes Packets equal to 64 Bytes	55,652 0 116 0	Bytes in Error CRC/Alignment Errors	0 0 0 0	
	History Guerrer Hourby History Dong React	Bytes Packets equal to 64 Bytes Packets 65 to 127 Bytes	55,652 0 116 0	Bytes in Error CRC/Alignment Errors Undervized Packets	0 0 0 0	
	(Henory Classific Hours)(Henory Dav)(Hours)	Bytes Packets equal to 64 Bytes	55,652 0 116 0	Bytes in Error CRC/Alignment Errors	0 0 0 0	
	Hellony Charter Houris Hellony Char} anner	Bytes Packets equal to 64 Bytes Packets 65 to 127 Bytes Packets 128 to 255 Bytes	55,652 0 116 0 10 0 0 0	Bytes in Error CRC/Alignment Errors Undersized Packets Gversized Packets	0 0 0 0 0 0 0 0 0 0	
Done Radio Relación Esse Station	Hetery Charter Hourig Hetery Dob/Heter]	Bytes Packets equal to 64 Bytes Packets 65 to 127 Bytes Packets 128 to 265 Eytes Packets 128 to 265 Eytes	55,652 0 116 0 10 0 0 0	Bytes in Error CRC/Alignment Errors Undersized Packets Oversized Packets Pregmented Packets		
Done Radio Periscriel Base Station	Hetery Counter Koung Hetery Chap Incer	Bytes Packets equal to 64 Bytes Packets 6 to 127 Bytes Packets 128 to 255 Bytes Packets 128 to 255 Bytes Packets 256 to 118 Bytes	55,652 0 116 0 10 0 0 0 71 0	Bytes in Error CRC/Alignment Errors Undersized Packets Oversized Packets Jobber Packets	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Done Radio: Puracried Base Station	Hellowy Charter Houring Hellowy Charg	Bytes Packets equal to 64 Bytes Packets edual to 64 Bytes Packets 65 to 127 Bytes Packets 256 to 911 Bytes Packets 512 to 4023 Bytes Packets 1024 to 1536 Dytes	55,652 0 116 0 10 0 0 0 71 0	Bytes in Error CRCIAlignment Errors Under sized Packets Oversized Packets Fragmential Packets Johan Packets Dopped Packets (Congestion)	0 0 0 0 0 0 0 0 0 0 0 0 0 0	
Done Radio Relaced Ease Dation		Bytes Packets equal to 64 Bytes Packets 65 to 127 Bytes Packets 65 to 127 Bytes Packets 626 to 611 Bytes Packets 626 to 613 Bytes Packets 6124 to 6358 Dytes Broadcast Packets	55,652 0 116 0 10 0 0 0 71 0 0 0 0 0 0 0	Bytes in Error CRC/Alignment Errors Uncluster Uncluster Uncluster Uncluster Presented Products Uncluster Dropped Products (Congestion) Dropped Product (Chaining) Dropped Product (Chaining)		
Dore Radio Potacind See Station		Bytes Packets equal to 64 Bytes Packets 65 to 127 Bytes Packets 126 236 Bytes Packets 126 236 Bytes Packets 126 to 513 Bytes Deckets 1264 to 1350 Bytes Bookdets 126 to 1350 Bytes Bookdets Reckets Maticast Packets	55,652 0 116 0 10 0 0 0 71 0 0 0 0 0 0 0	Bytes in Error CCC/Algument Errors Understand Phytesin Oversized Packets Oversized Packets Disoperd Packets (Comparison) Disoperd Packets (Citienting) Disoperd Packets (Citienting)		
Done Redux Russcred Base Station		Bytes Packets equal to 64 Bytes Packet 65 to 122 Bytes Packet 65 to 236 Bytes Packet 23 15 bit 24 Bytes Packets 23 15 bit 19 Bytes Packets 23 15 bit 19 Bytes Packets 129 http://www.states Beactoant Packets Maliciant Packets	55.852 0 116 0 10 0 0 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0	Bytes in Error CRC/Alignment Errors Uncluster Uncluster Uncluster Uncluster Presented Products Uncluster Dropped Products (Congestion) Dropped Product (Chaining) Dropped Product (Chaining)		
Done Radio Relaced Ease Dation		Bytes Packets equal to 64 Bytes Packet 65 to 122 Bytes Packet 65 to 236 Bytes Packet 23 15 bit 24 Bytes Packets 23 15 bit 19 Bytes Packets 23 15 bit 19 Bytes Packets 129 http://www.states Beactoant Packets Maliciant Packets	55.852 0 116 0 10 0 0 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0	Bytes in Error CRC/Alignment Errors Uncluster Uncluster Uncluster Uncluster Presented Products Uncluster Dropped Products (Congestion) Dropped Product (Chaining) Dropped Product (Chaining)		
Done Radio Porticitel Base Station		Bytes Packets equal to 64 Bytes Packet 65 to 122 Bytes Packet 65 to 236 Bytes Packet 23 15 bit 24 Bytes Packets 23 15 bit 19 Bytes Packets 23 15 bit 19 Bytes Packets 129 http://www.states Beactoant Packets Maliciant Packets	55.852 0 116 0 10 0 0 0 71 0 0 0 0 0 0 0 0 0 0 0 0 0	Bytes in Error CRC/Alignment Errors Uncluster Uncluster Uncluster Uncluster Presented Products Uncluster Dropped Products (Congestion) Dropped Product (Chaining) Dropped Product (Chaining)		

Radio: Protected Base Station

Active Unit: Primary