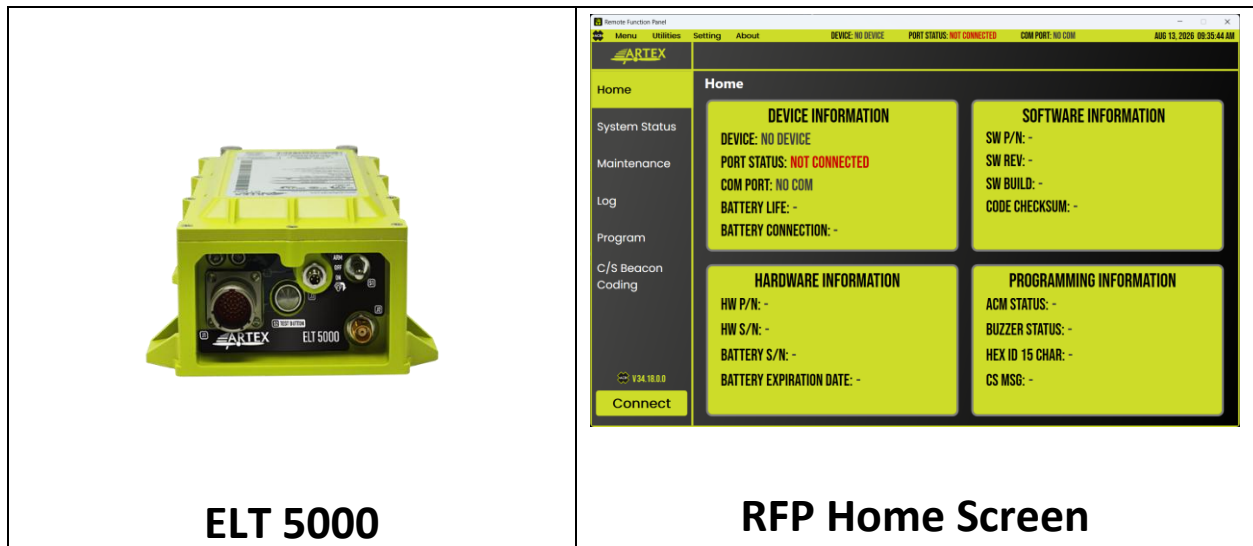


ACR ELECTRONICS, INC. / ARTEX
RFP USER MANUAL
ELT-DT/ELT 5000



Remote Function Panel (RFP) Universal User Manual



RFP User Manual Y1-03-0389

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RFP USER MANUAL

ELT-DT/ELT 5000

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LIST OF ACRONYMS, ABBREVIATIONS AND DEFINITIONS

<u>Term</u>	<u>Definition</u>
ACTIVATION	Activation refers to an ELT that has been commanded to transmit, by Automatic trigger, manually or crash sensor, and may be transmitting on one or more frequencies.
ATU	Automatic Trigger Unit (also referred to as Automatic Distress Trigger)
ADT	Automatic Distress trigger System (also referred to as Automatic Trigger Unit)
ARINC	Aeronautical Radio, Incorporated
ARINC 680	Aircraft Autonomous Distress Tracking
CCP	Cockpit Control Panel
CFR	Code of Federal Regulations – The general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government. Title 14, “Aeronautics and Space”, contains the FARs.
COSPAS-SARSAT	The international search and rescue consortium that governs the international satellite-based search and rescue distress alert detection and information distribution system. For a complete description, go to the official web site for the International Cospas-Sarsat Program, http://www.cospas-sarsat.int . Also abbreviated as C/S.
DECODE	To convert certain messages into usable format for operations
ELT	Emergency Locator Transmitter – ELTs are installed on aircraft and used to send emergency signals to the Search and Rescue (SAR) satellite system. The word “beacon” is associated with these devices.
ELT-DT	Distress Tracking ELT with Crash Survivability.
ELT 5000	Distress Tracking ELT with Crash Survivability. Note: ELT-DT and ELT 5000 are used interchangeably throughout this document.
EULA	End User License Agreement
EUROCAE	The European Organisation for Civil Aviation Equipment (EUROCAE) is an international organization that deals exclusively with aviation standardization, for both airborne and ground systems and equipment.
FAA	Federal Aviation Administration – The United States government agency for aircraft safety and regulation.
FAR	Federal Aviation Regulations – The rules and regulations governing the manufacture, certification, operation, maintenance, repair and alteration of aircraft in the United States.
GADSS	Global Aeronautical Distress and Safety System (ICAO)
GNSS	Global Navigation Satellite System - a satellite system that is used to pinpoint the geographic location of a user's receiver anywhere in the world.
HEX ID	Hexidecimal code that provides unique identifier for Cospas Sarsat beacons
ICAO	International Civil Aviation Organization https://www.icao.int

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LADR	Location of an Aircraft in Distress Repository, operated by EUROCAE.
LED	Light Emitting Diode – Semiconductor device that emits light when current is passed through it. Usually used as a status or warning indicator.
LED ERROR CADENCE	The sequence of LED blinks used to provide information on Self-Test results.
MIL	The three-letter acronym that stands for “Military” and precedes military specifications and standards numbers (e.g., MIL-W-2828 would indicate a wire specification and MIL-STD-2828 would indicate a standard).
POS	Point of Sale
PROGRAMMING	Operation to load pertinent data onto the beacon
PROTOCOL	A message type defined to specify the type of data transmission for delivery and receipt, in particular to Cospas Sarsat operations
P/N	Part Number – Refers to an ACR part number, unless otherwise noted.
RFP	Remote Function Panel
RTCA	RTCA Inc. – Organization that makes recommendations for airworthiness; refer to https://www.rtca.org for more information.
SAR	Search and Rescue
TNC	A coax cable connector having 50Ω impedance and used for Radio Frequency (RF) signal connections.
TSO	Technical Standard Order – A TSO is a minimum performance standard issued by the FAA for specified materials, parts, and appliances used on civil aircraft.
UUT	Unit Under Test
UTC	Coordinated Universal Time – A time standard based on International Atomic Time. UTC is the time system used in aviation and is often associated with Greenwich Mean Time (GMT) and/or “Zulu” time.

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RECORD OF REVISIONS

REVISION	CHANGE	DATE	REVISION	CHANGE	DATE
A	ECO 18344	3/13/25			
B	ECN 19109	8/31/26			

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SERVICE BULLETIN LIST

SERVICE BULLETIN NO	ISSUE DATE	SUBJECT	MANUAL REV NO	MANUAL REV DATE

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Notices	2	8/13/25	Regular Event Logs	39	8/13/25
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	37	8/13/25		74	8/13/25

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SUBJECT	PAGE	DATE	SUBJECT	PAGE	DATE
	75	8/13/25	RFP Utilities/Password Configurator	94	8/13/25
	76	8/13/25		95	8/13/25
Logs	77	8/13/25	Programming Password Session Timeout	96	8/13/25
Regular Event Logs	78	8/13/25		97	8/13/25
	79	8/13/25	Viewing the Manual in App	98	8/13/25
	80	8/13/25	Updating the RFP App	99	8/13/25
Critical Event Logs	81	8/13/25		100	8/13/25
	82	8/13/25		101	8/13/25
Event Log Filter	83	8/13/25		102	8/13/25
	84	8/13/25		103	8/13/25
Saving Event Logs	85	8/13/25		104	8/13/25
Program	86	8/13/25	END OF DOCUMENT		
	87	8/13/25			
	88	8/13/25			
C/S Beacon Coding	89	8/13/25			
	90	8/13/25			
	91	8/13/25			
	92	8/13/25			
RFP Disconnection	93	8/13/25			
	94	8/13/25			
	95	8/13/25			
	96	8/13/25			
	97	8/13/25			
	98	8/13/25			

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ELT-DT/ELT 5000

1.0 OVERVIEW

1. The purpose of this RFP user manual is to provide clear and concise operational guidance to operate all functions to support ELT-DT. This RFP user manual provides guidance across the fleet of ELT-DTs that have been deployed to support fleet commonality. The current list of ELT-DT units that the RFP supports is as follows:
 - 1.1. ELT-DT (Embraer) – A3-06-3332 (See Sections 2.0-11.**Error! Reference source not found.**0)
 - 1.2. ELT-DT (Boeing) – A3-06-3249 (See Sections 12.0-20.0)
2. For component maintenance manual information on specific ELT-DT operations, please refer to the appropriate CMM (ELT-DT Part Number Specific) for details. As additional OEMs incorporate the ARTEX ELT-DT, this RFP User Manual will be updated to allow for continual maintenance supportability across fleet operations.

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2.0 EQUIPMENT NEEDED

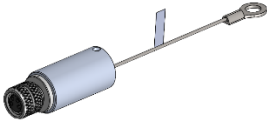
ELT-DT / ELT 5000 Embraer: A3-06-3332 Boeing: A3-06-3249	RFP (A3-06-3359)	ACM (A3-06-3253) (Optional)
		
RFP Interface Cable (A3-06-3382) 		

Table 1 - Equipment Check

NOTE: The RFP and cable are normally sold as an RFP kit, P/N A3-06-3538. P/N A3-06-3538 includes the RFP (P/N A3-06-3359) and the Interface Cable (P/N A3-06-3382).

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3.0 RFP MAINTENANCE – EMBRAER ELT 5000 (A3-06-3332)

3.1 How To Use This RFP Manual (Embraer Operations)

1. This section of the RFP manual describes maintenance operations requiring the operational use of the RFP to support activities related to Embraer's ELT 5000 (A3-06-3332). The information presented in this manual is accurate at the time of printing but is subject to change. Refer to the ARTEX web site at www.acrartex.com for the latest information and any updates to this manual.
2. Standard maintenance procedures for use of the ELT 5000 that technicians must know are not provided in this manual.

3.2 RFP Check – Battery Life

1. Power on RFP. Enter credentials, as required.
2. Check the Battery Level of the RFP in the bottom right corner. Consider Battery Levels relative to service life and how much energy is required to perform standard maintenance using the tablet. For reference, standard RFP self-tests consume <1% of functional service life.

3.3 ELT 5000 Check – ARINC Comms

1. Provide the ELT-DT with ARINC communication
 - 1.1. If ARINC Communication is not present, the red LED will illuminate. 
 - 1.2. If ARINC Communication is present the green LED will illuminate. 



Figure 1 – ELT-DT (A3-06-3332) Front Panel

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4.0 INTRODUCTION

1. The RFP is a Maintenance Tool created by ACR Electronics to provide Maintenance support to the ELT 5000. It provides a user-friendly interface to support Cospas Sarsat and FAA maintenance activities, as well as customer specific maintenance actions to support operations.
2. The RFP allows the user to perform the following actions for the ELT 5000:
 - Monitor Battery Life (Section 3.2)
 - Monitor ARINC Labels (Section 3.3)
 - Monitor CCP Switch (Section 7.0)
 - Perform a Series of Self-Tests (Section 7.0) – Required Maintenance Actions
 - Download Self-Test Report (Section 7.5)
 - Monitor Event Logs (Section 8.0)
 - Download Event Log Data (Section 8.4)
 - Silence the Buzzer (Section 9.0)
3. The actions above provide insight to the user regarding interactions between the ELT-DT and ADT.

5.0 GETTING STARTED

1. Connect the ELT-DT to the Aircraft Aft Panel Interface using the 17 Pin Harness (A3-06-3382). Be sure to secure all connections.
2. Upon the first launch of the RFP application, an End-User License Agreement (EULA) appears. It is REQUIRED by the RFP User to accept this EULA or the RFP does not operate.

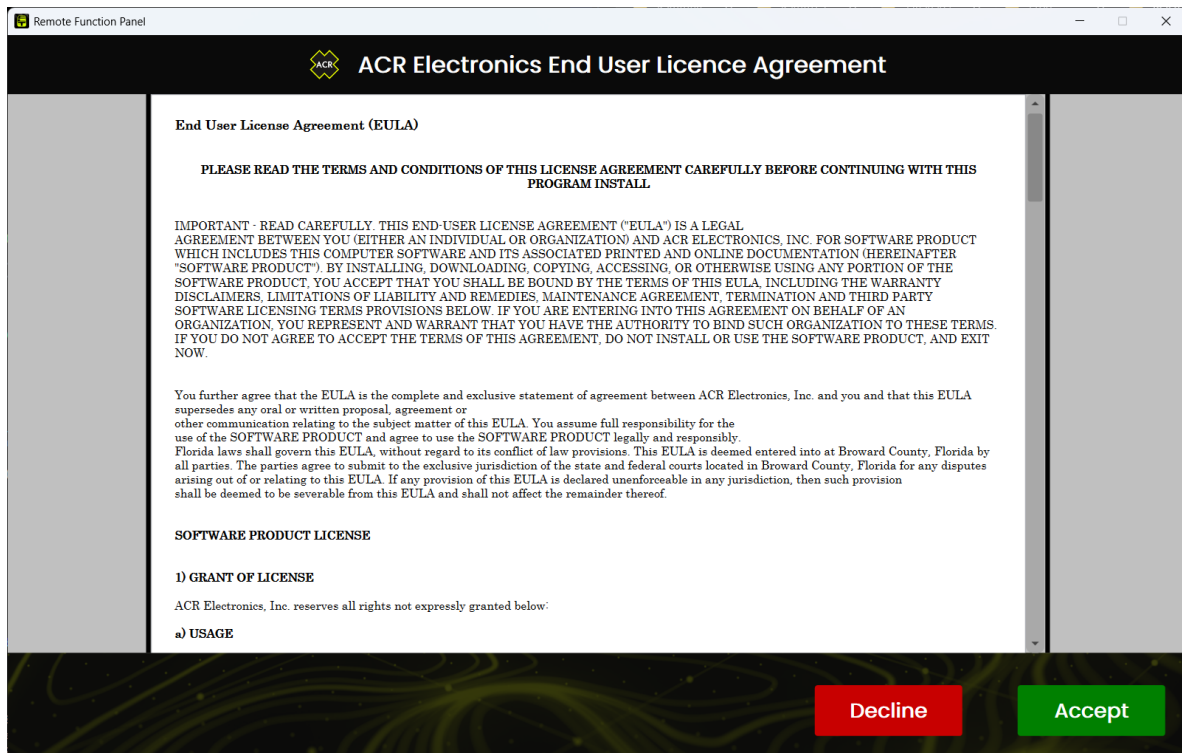


Figure 2 - RFP EULA

3. Once the EULA has been read by the RFP User, click the accept button to start using the RFP.

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4. Once the EULA has been accepted, the home screen is displayed. The port status in the figure below states that the RFP is not connected to the ELT 5000.

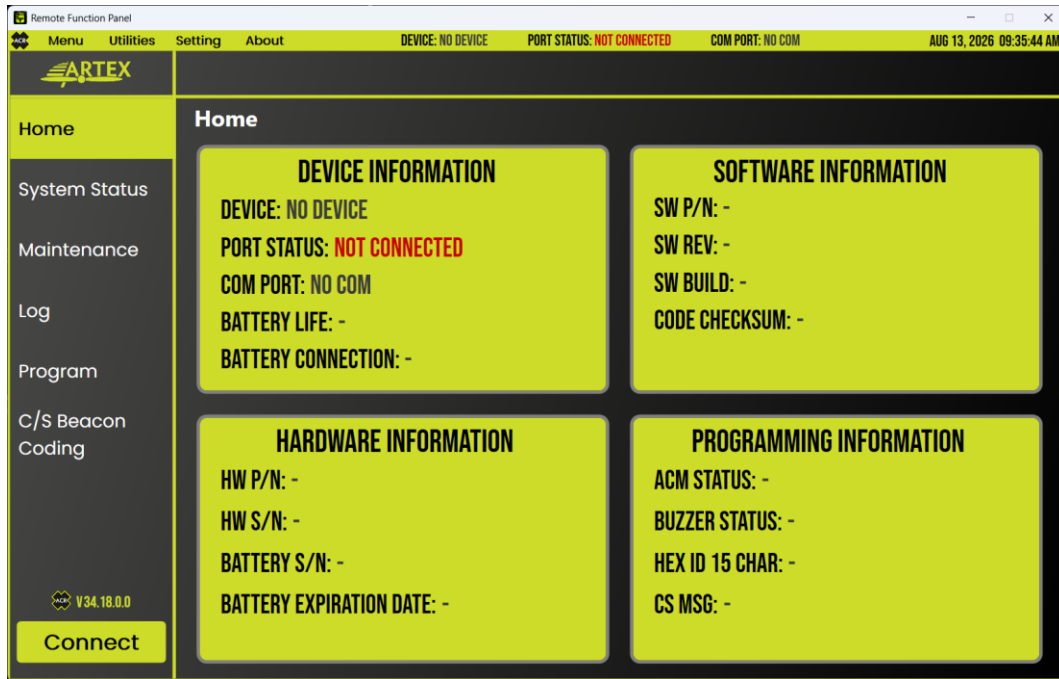


Figure 3 - RFP Home Screen

5. Select the **Connect** button displayed at the bottom left of the home screen.
 - 5.1. The connection prompt will launch.
 - 5.2. The RFP automatically selects the last COM Port that was successfully connected to.

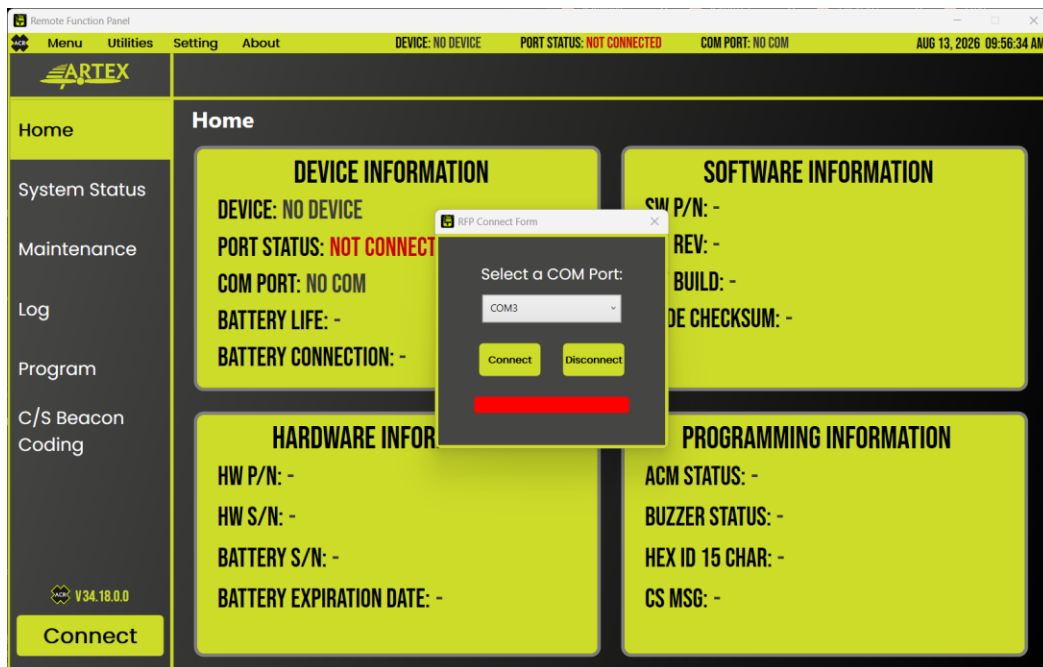


Figure 4 - RFP Connect Screen

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6. If more than one COM Port is available, a dropdown list displays the available COM ports.
7. If applicable, select the appropriate COM port from the dropdown list.



Figure 5 - RFP Connect Screen

8. Select the Connect button. If successful, a connection to the ELT 5000 shall be established, and the home screen information is updated with the device information. The Home section header provides important information about the ELT 5000 and persists on every page. After successful connection, the RFP will display a Disconnect option.

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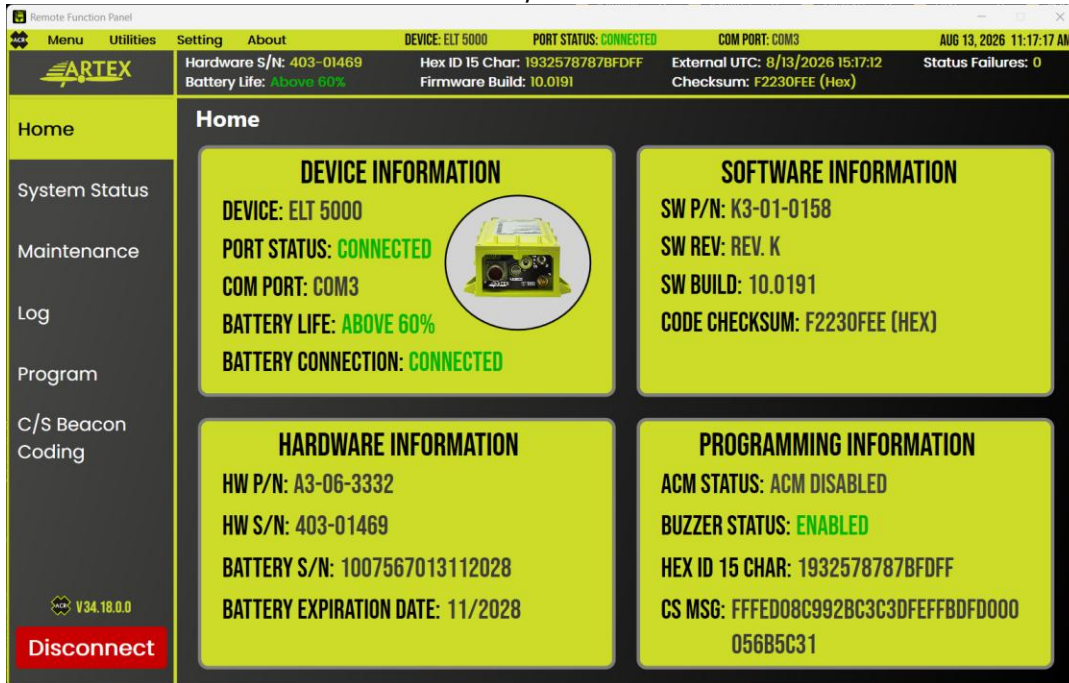


Figure 6 - RFP Connect Screen

9. Once connected, the Home section displays the following information boxes:

- 9.1. DEVICE INFORMATION
- 9.2. SOFTWARE INFORMATION
- 9.3. HARDWARE INFORMATION
- 9.4. PROGRAMMING INFORMATION

These information boxes include:

- 9.5. Device Type
- 9.6. Connection/Port Status: Connected | Not Connected
- 9.7. COM Port Number
- 9.8. Battery Life: Below 5%, 5%, 10%, 20%, 30%, 40%, 50%, 60% & Above 60%

NOTE 1: The Battery Life percentage only applies to the first hour of operational usage. The ELT-DT battery must be replaced after one hour of accumulated usage in accordance with regulatory requirements.

NOTE 2: Battery replacement is recommended when Battery Life displays Below 5% or prior to 5 year expiration date, whichever comes first

- 9.9. Battery Connection: Connected | Disconnected
- 9.10. SW P/N (Software Part Number)
- 9.11. SW Rev (Software Revision)
- 9.12. SW Build # (Software Build Number)
- 9.13. Code Checksum
- 9.14. HW P/N (Hardware Part Number)
- 9.15. HW S/N (Hardware Serial Number)
- 9.16. Battery S/N (Battery Serial Number)
- 9.17. Battery Expiration Date
- 9.18. ACM Status: Connected | Disconnected
- 9.19. Buzzer Status: Enabled | Disabled

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9.20. The Current Cospas Sarsat Hex ID Programmed (36 character and 15 character)

10. To switch between screens, use the navigational menu on the left.
11. The RFP Software Version is listed at the bottom of the menu panel.
12. At the top of the RFP the Home section header provides important information about the ELT 5000 and persists on every page. The following is displayed:
 - 12.1. Hardware Serial Number
 - 12.2. Battery Life
 - 12.3. Hex ID 15 Char
 - 12.4. Firmware Build
 - 12.5. UTC Time (Shows either Internal or External UTC if available)
 - 12.6. Checksum (Shows the current code checksum of the ELT 5000 firmware)
 - 12.7. Status Failures (Shows the amount of status failures displayed on the system status page)
13. The Home Page statuses display RED if no ACM is installed (when ACM is enabled), the Buzzer is disabled, no Hex ID is programmed, Battery is Below 5%, or the Battery is disconnected.

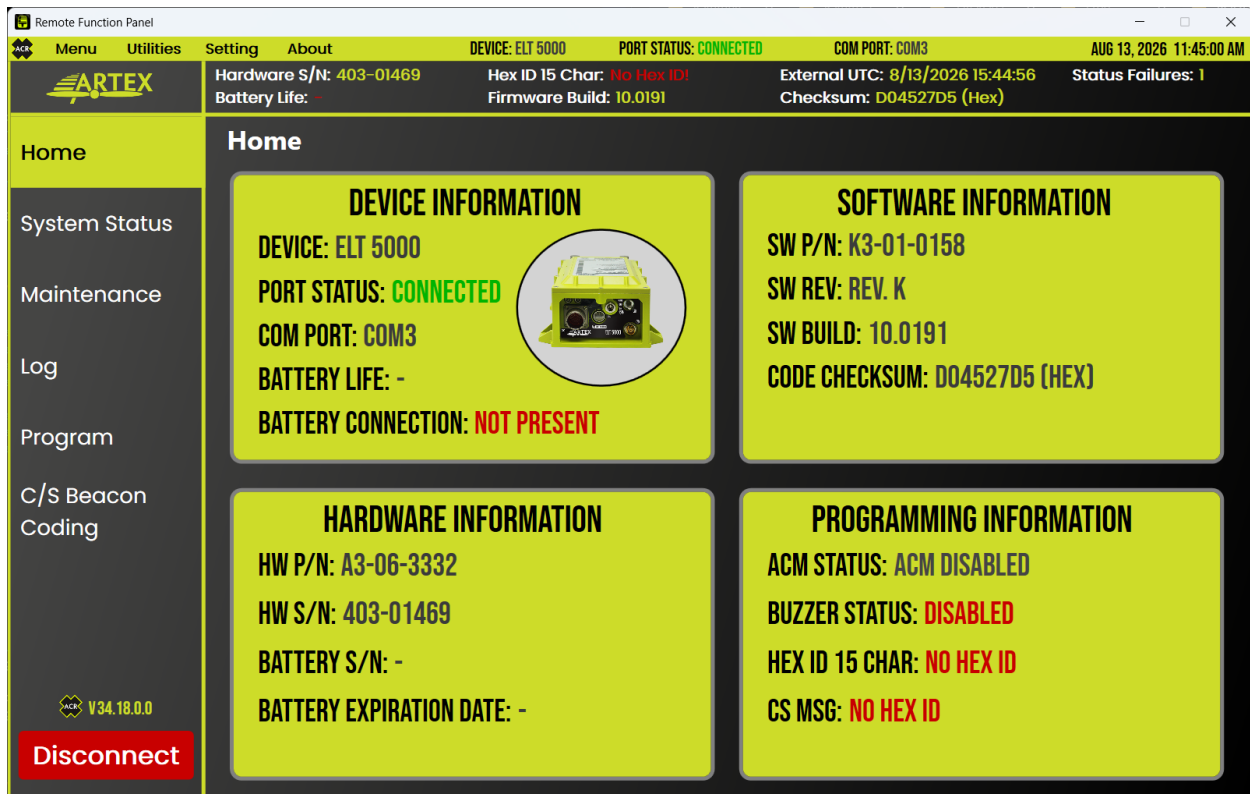


Figure 7 - RFP Home Screen

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6.0 SYSTEM STATUS

1. When switching to the System Status page, the page automatically updates with the ELT 5000's current states and statuses if connected to the correct COM Port.
2. These states and statuses are updated based on changes that are made from the ELT 5000 and the ADT. Important faults are indicated by a green or red background to the status states to the right of the status parameter.

Remote Function Panel

Menu Utilities Setting About

DEVICE: ELT 5000 PORT STATUS: CONNECTED COM PORT: COM3 AUG 13, 2026 11:18:29 AM

Hardware S/N: 403-01469 Hex ID 15 Char: 1932578787BFDFF External UTC: 8/13/2026 15:18:22 Status Failures: 0
 Battery Life: Above 60% Firmware Build: 10.0191 Checksum: F2230FEE (Hex)

Home

System Status

Maintenance

Log

Program

C/S Beacon Coding

V34.18.0.0

Disconnect

System Status

ELT - Status: Normal Operation Power Source: On 28VDC

External UTC: 8/13/2026 15:18:22

ELT-DT

Internal GPS: Fix: 3D FIX Lat: 26.0511 Lon: -80.1685 Alt: -17m

Air / Ground A:	N/A	RCP Switch:	Armed	Battery Connection:	Connected	ACM Connection:	ACM Disabled
Air / Ground B:	On Ground	GCS Status:	Off	Battery Life Remaining:	Above 60%	ACM Fault:	ACM Disabled
Air / Ground Discrete:	N/A	Trigger Lock:	Unlocked	Antenna Fault:	Normal Operation		
System Air / Ground State:	On Ground	ELT-DT TX Status:	Disabled	Accelerometer MEMS Fault:	Normal Operation		

ADT

External GPS: Fix: 3D FIX Lat: 26.0518 Lon: -80.1691 Alt: 7m

ADT Air / Ground State:	N/A	Active ARINC RX Channel:	Channel A Active	ADT Health Status:	N/A	ARINC 429 A In Health:	Normal Operation
A429 Input A Trigger Status:	Off			Label 202 Status:	Present	ARINC 429 B In Health:	Normal Operation
A429 Input B Trigger Status:	Off			Label 305 Status:	N/A		

Figure 8 - RFP System Status with No Faults

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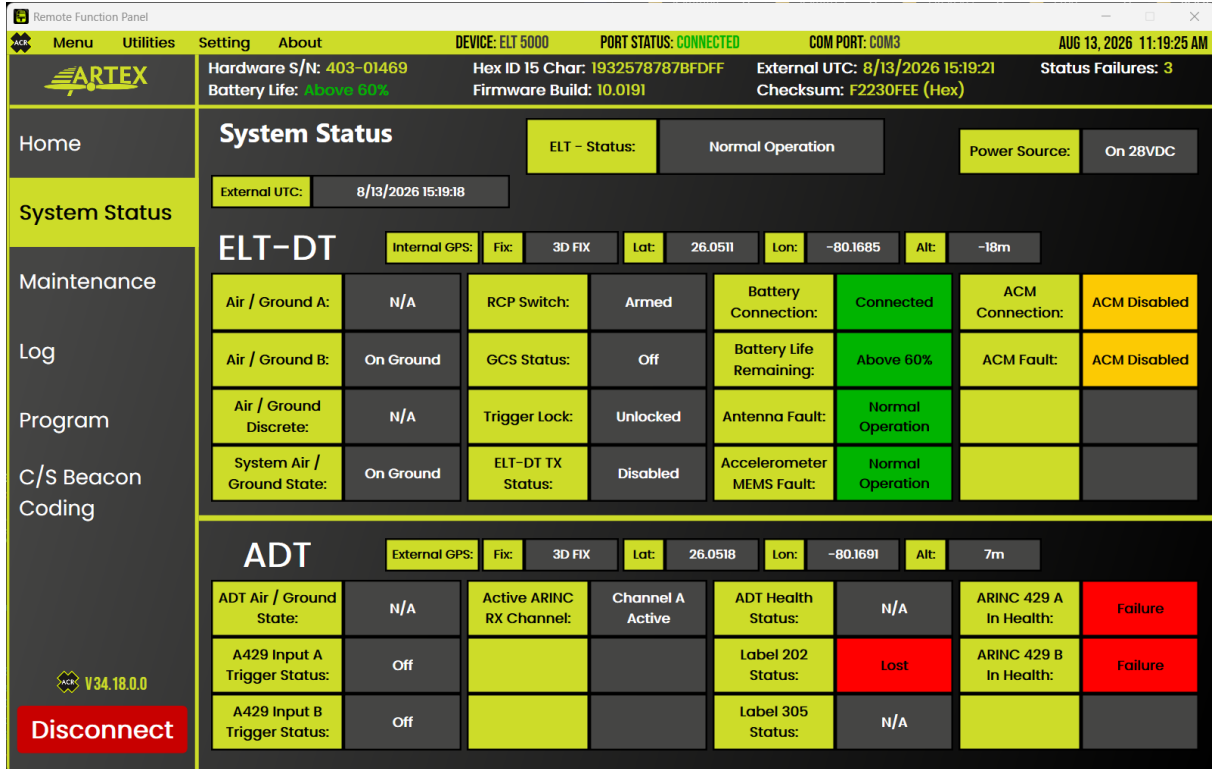


Figure 9 - RFP System Status with Faults

3. At the top of the System Status page, a status called ELT-Status shows the current state of the ELT 5000.
4. The available ELT 5000 statuses are as follows:
 - 4.1. **Normal Operation:** In a normal operations state.
 - 4.2. **Cancelled:** In a cancellation state.
 - 4.3. **Activated (Manual):** In a manual activation state via the Cockpit Control Panel Switch (CCP).
 - 4.4. **Activated (Auto):** In an automatic distress activation state via Label 202.
 - 4.5. **Activated (Crash):** In a crash activation state via the MEMES accelerometer.
 - 4.6. **Activated (Loss of 202):** In a loss of Label 202 activation state via losing Label 202.

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Figure 10 - RFP System Status Screen

- When an update occurs, the status state columns (second columns) briefly change the cell background color to blue indicating a change has occurred for that status.

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6. Table 2 provides a listing of all Output States available on the RFP System Status screen.

Table 2 - RFP System Status Page Status Table

<i>System Status Name</i>	<i>Function</i>	<i>ARINC 429 Label (if applicable)</i>	<i>Output States</i>
ELT - Status	ELT-DT System State	N/A	• Normal Operation / Cancelled • Activated (Manual) • Activated (Auto) • Activated (Crash) • Activated (Loss 202) • Every Combination of the 4 activations
Power Source	ELT-DT Active Power Source	Label 274 Bit 16	• On 28V (0) • On Battery (1)
Air / Ground B	Wired Airplane Air/Ground B Status	N/A	• On Ground • In Air
Air / Ground Discrete	Wired Airplane Air/Ground A & B Discrete	Label 275 Bit 25	• Agreed (0) • Disagreed (1)
System Air / Ground	System Air / Ground State	Label 275 Bit 27	• In Air (0) • On Ground (1)
CCP Switch	Control Cockpit Switch Status	Label 274 Bit 14	• Armed (0) • Active (1)
GCS Status	Ground Crash Sensor Trigger Status	Label 274 Bit 13	• Off (0) • Active (1)
Trigger Lock	ADT Trigger Lockout Switch Status	Label 201 Bit 26	• Unlocked (0) • Locked (1)
ELT-DT TX Status	TX Operational Status	Label 201 Bits 12-11	• Disabled (00) • Enabled (01)
Battery Connection	ELT-DT Battery Connection	Label 275 Bit 23	• Connected (0) • Disconnected (1)
Battery Life Remaining	ELT-DT Battery Life Remaining	Label 270 Bits 13-11	• Below 5% (000) • 5% (001) • 10% (010) • 20% (011) • 30% (100) • 40% (101) • 50% (110) • Above 60% (111)
Antenna Fault	ELT-DT Antenna Fault Status	Label 350 Bit 12	• Normal Operation (0) • Failure (1)
Accelerometer MEMS Fault	ELT-DT Mems Accelerometer Status	Label 274 Bit 13	• Normal Operation (0) • Failure (1)
ACM Connection	Airplane Configuration Module Connection / Install Status	Label 350 Bit 20	• Connected (0) • Disconnected (1)
ACM Fault	Airplane Configuration Module Fault	Label 350 Bit 19	• No ACM Fault (0) • ACM Fault (1)

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	Status		
<i>ADT Air / Ground State</i>	ARINC 429 Airplane Air / Ground Status	Label 305 Bit 20	• On Ground (0) • In Air (1)
<i>A429 Input A Trigger Status</i>	ARINC 429 Input A Trigger Status	Label 274 Bit 11	• Off (0) • Active (1)
<i>A429 Input B Trigger Status</i>	ARINC 429 Input B Trigger Status	Label 274 Bit 12	• Off (0) • Active (1)
<i>Active ARINC RX Channel</i>	N/A	N/A	• Channel A: Active • Channel B: Active
<i>ADT Health Status</i>	ADT 28V Power Health Status Discrete	Label 275 Bit 24	• ADT On 28V (0) • ADT Loss of 28V (1)
<i>Label 202 Status</i>	ARINC 429 Label 202 Status	Label 202	• Lost • Present
<i>Label 305 Status</i>	ARINC 429 Label 305 Status	Label 305	• Lost • Present
<i>ARINC 429 A In Health</i>	ELT-DT ARINC 429 A In Health	Label 350 Bit 13	• Normal Operation (0) • Failure (1)
<i>ARINC 429 B In Health</i>	ELT-DT ARINC 429 B In Health	Label 350 Bit 14	• Normal Operation (0) • Failure (1)

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7.0 MAINTENANCE

1. The Maintenance page allows the RFP user to perform maintenance tests on the ELT 5000 to ensure that the beacon is operating normally.
2. There are 3 types of maintenance tests available on the RFP. They are as follows:
 - 2.1. **Self-Test:** Checks certain key parameters and verifies ELT 5000 performance.
 - 2.2. **Internal GNSS Test:** Checks the antenna connection to the ELT 5000 and verifies that a GNSS fix is established with the ELT 5000
Note: ELT-DT antenna must have line-of-sight to the GNSS constellation to receive GNSS fix.
 - 2.3. **External GNSS Test:** Checks ARINC 429 connectivity to the ELT 5000 and verifies that the ADT is communicating properly with the ELT 5000.
3. Initiate a test by selecting one of the available tests:
 - 3.1. **Self-Test**
 - 3.2. **Internal GNSS Test**
 - 3.3. **External GNSS Test**

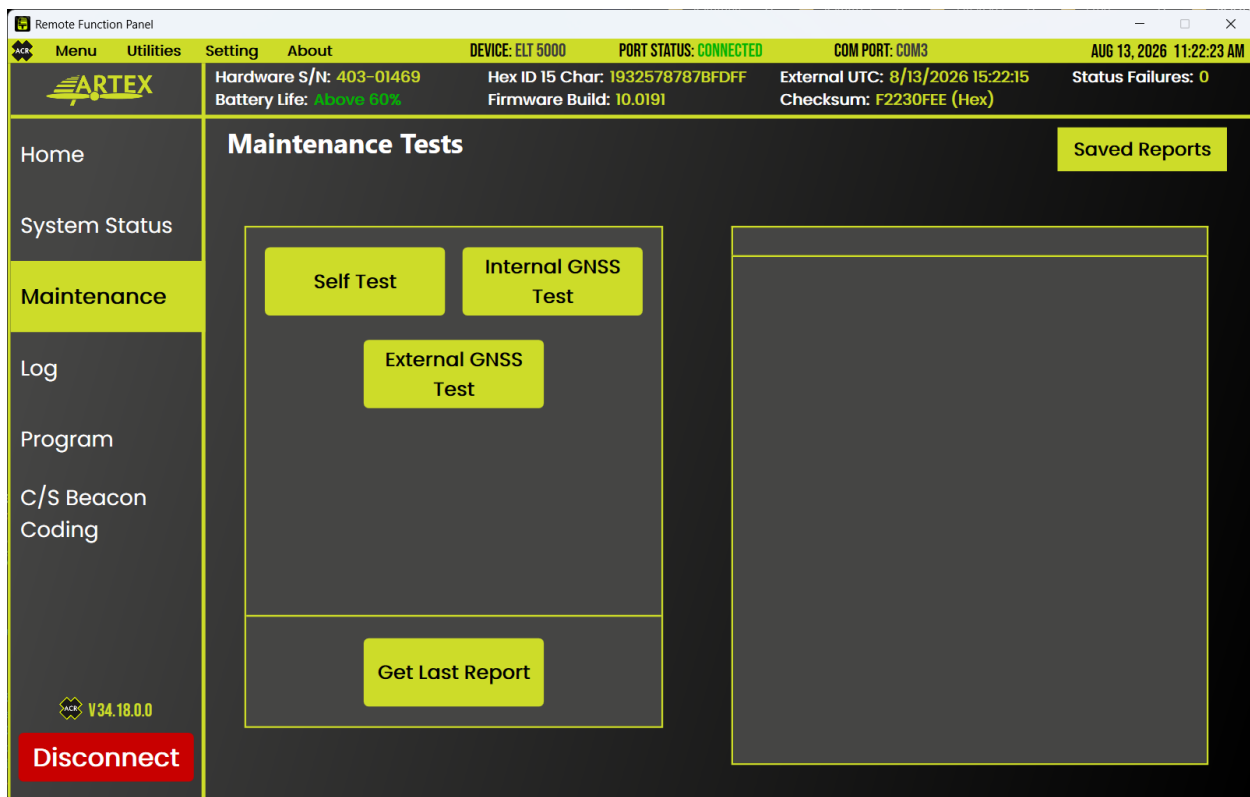


Figure 11 - RFP Maintenance Screen

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7.1 Self-Test

1. Conduct a Self-Test by selecting the Self-Test button.
2. Once the Self-Test button is selected, a pop-up window appears. This window is used to select which power source will be used to conduct the self-test.
 - 2.1. Selecting the Aircraft Power button conducts the Self-Test using the 28V Aircraft Power Source.
 - 2.2. Selecting the Battery Power button conducts the Self-Test using the ELT-DT Battery Power Source.
 - 2.3. Selecting the Cancel button prevents the Self-Test from starting and the RFP user may continue using the RFP application.

Note: Aircraft power is preferred for standard maintenance items at the aircraft to conserve battery power. When aircraft power is not available, battery power may be used as an alternative power source to conduct test operations.

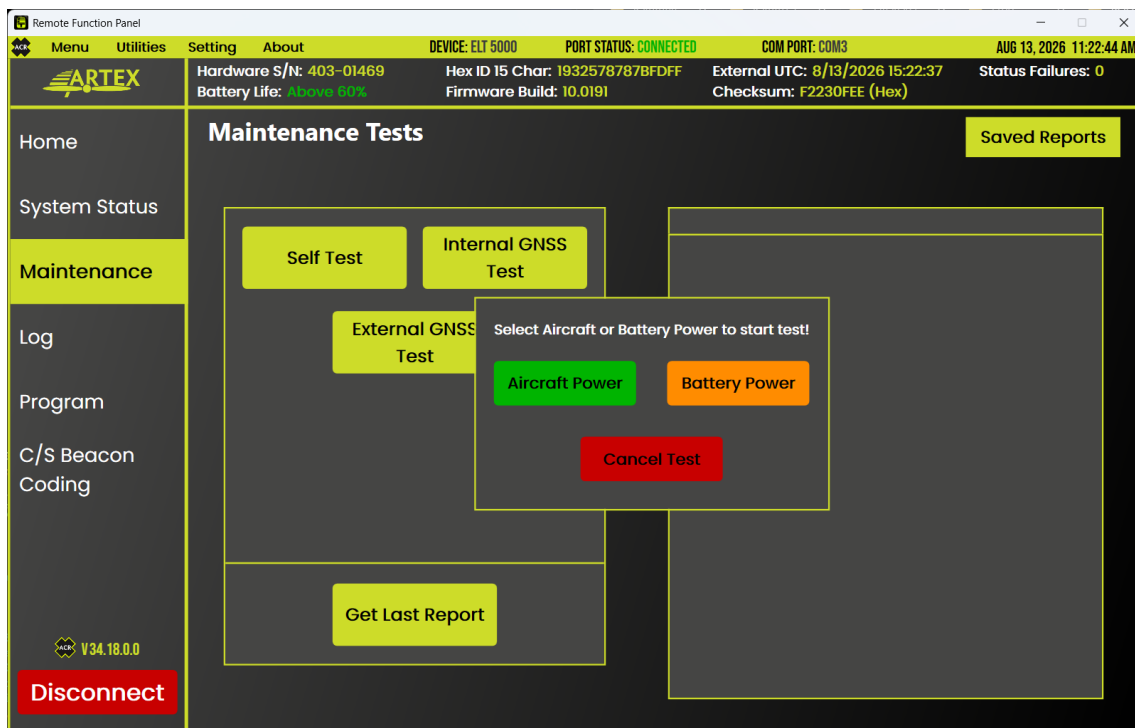


Figure 12 - RFP Maintenance Screen

3. After one of the power source buttons is selected, the Self-Test starts running.
4. Text indicating that the Self-Test has been initiated and that the test is running then appears.

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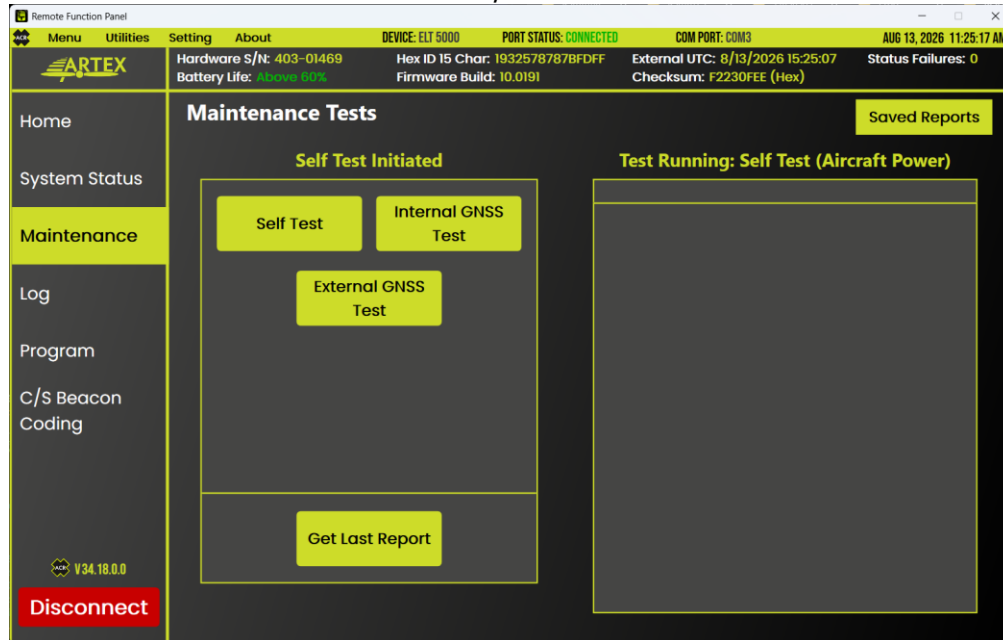


Figure 13 - RFP Self-Test

5. After the Self-Test results are received, the LED Error Cadence appears on the ELT 5000 unit. Refer to the ELT 5000 CMM for specific details on the LED Error Cadence to signify specific error codes.
6. On the RFP this is illustrated by a flashing text "Running LED Error Cadence!". While this text is shown, the RFP user is not able to interact with other aspects of the RFP until the Error Cadence has finished.

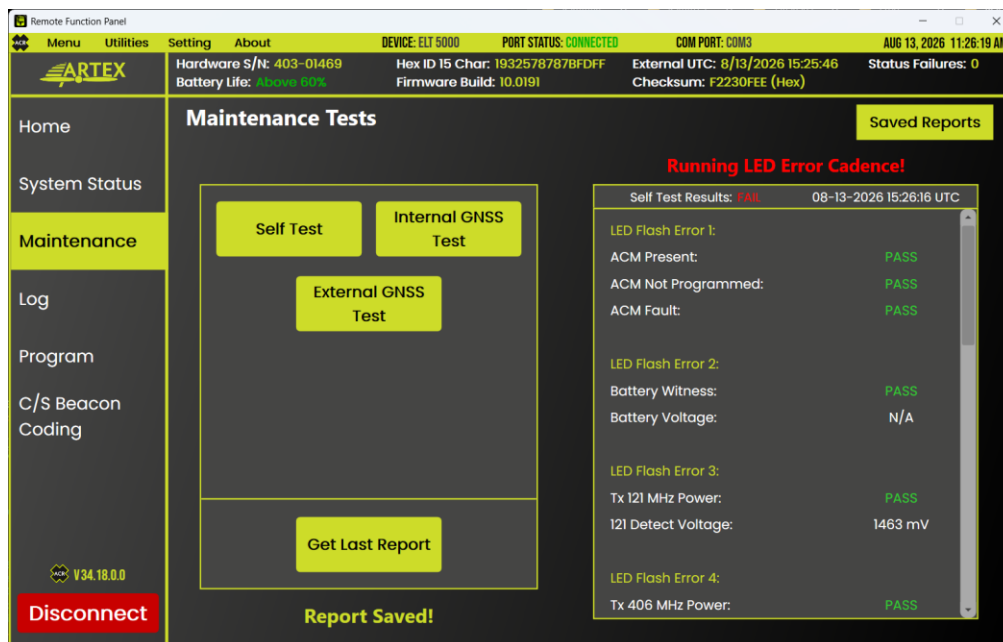


Figure 14 - RFP Self-Test

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- Once the Self-Test is finished, the Self-Test results automatically display in the information box on the right. Text indicating that the Self-Test has completed is displayed.

The screenshot displays the Remote Function Panel (RFP) interface for the ELT 5000 device. The top status bar shows the device is connected via COM3, with a timestamp of August 13, 2026, at 11:27:30 AM. The main menu on the left includes Home, System Status, Maintenance (highlighted), Log, Program, and C/S Beacon Coding. The Maintenance Tests section features buttons for Self Test, Internal GNSS Test, and External GNSS Test, along with a Get Last Report button. The Self Test Results panel on the right shows a 'Self Test All Pass!' message and a list of test results, all of which are 'PASS'.

Test Category	Test Item	Result
LED Flash Error 1:	ACM Present:	PASS
	ACM Not Programmed:	PASS
	ACM Fault:	PASS
LED Flash Error 2:	Battery Witness:	PASS
	Battery Voltage:	N/A
LED Flash Error 3:	Tx 121 MHz Power:	PASS
	121 Detect Voltage:	1471 mV
LED Flash Error 4:	Tx 406 MHz Power:	PASS

Figure 15 - RFP Self-Test

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7.2 Internal GNSS-Test

1. Conduct an Internal GNSS Test by selecting the Internal GNSS Test button.
2. Once selected, the Internal GNSS Test begins. Text indicating that the Internal GNSS Test has been initiated appears and a timer starts counting down with an estimated completion time.

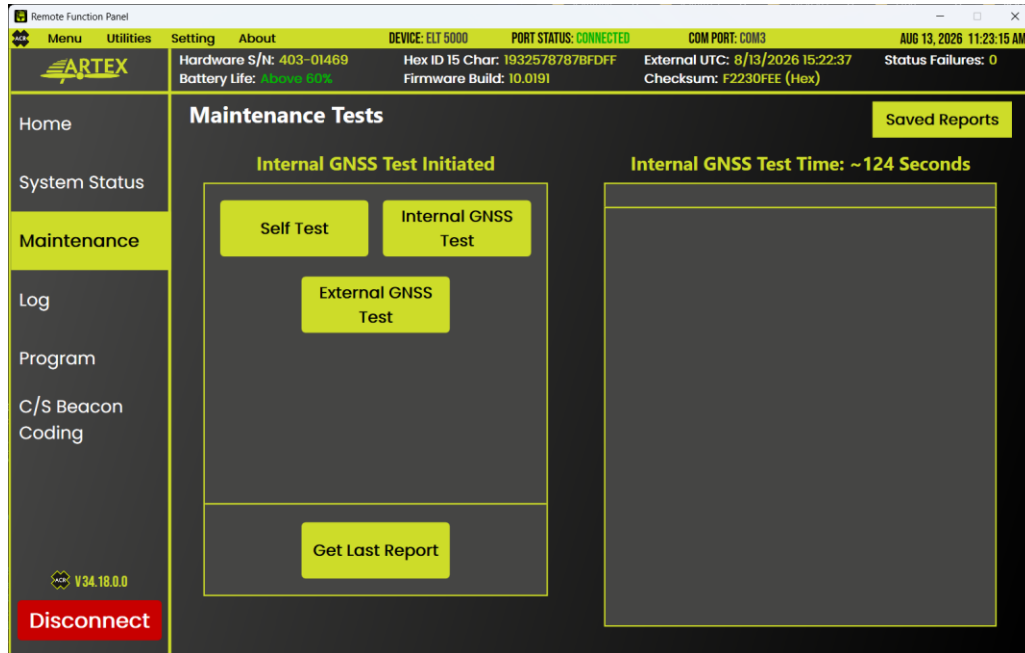


Figure 16 - RFP Internal GNSS Test

3. Once the Internal GNSS Test has been completed, a Pass or Fail Result is displayed, and a report is created.

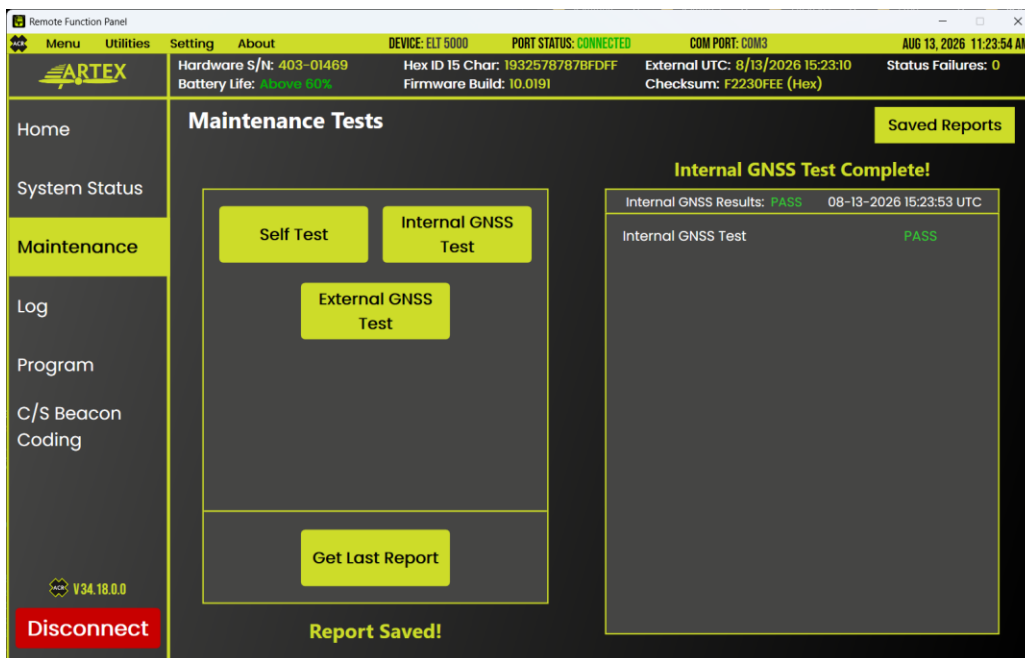


Figure 17 - RFP Internal GNSS Test

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7.3 External GNSS-Test

1. Conduct an **External GNSS Test** by selecting the **External GNSS Test** button.
2. Once selected, the External GNSS Test begins. Text indicating that the **External GNSS Test** has been initiated appears.

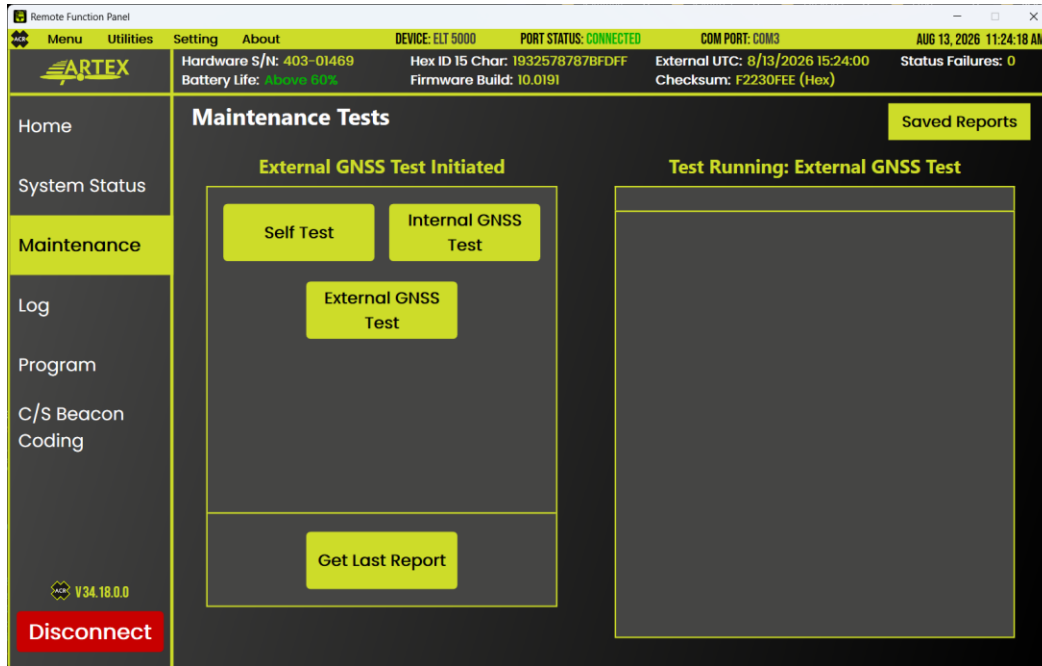


Figure 18 - RFP External GNSS Test

3. Once the External GNSS Test has been completed, a Pass or Fail Result is displayed and a report is created.

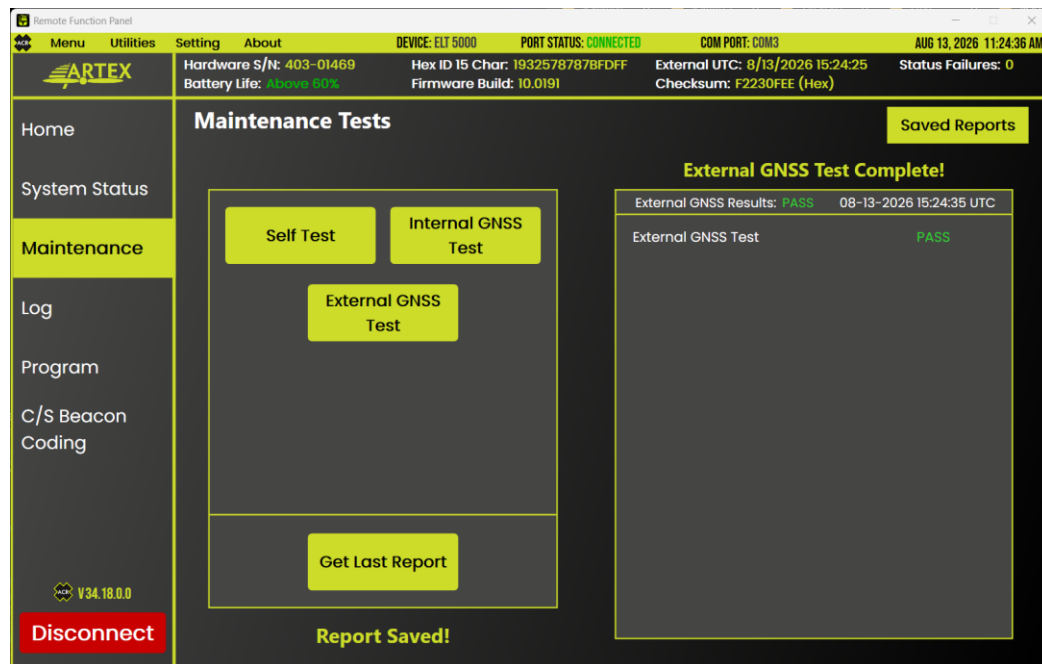


Figure 19 - RFP External GNSS Test

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7.4 Last Self-Test Report Saved on the ELT 5000

1. The RFP allows for the retrieval of the last Self-Test Report that was saved on the ELT 5000 in memory. This can be useful if the RFP user would like to see the results of the last Self-Test that was conducted on the ELT 5000 unit they are using.
2. To get the last Self-Test Report, select the Get Last Report button at the bottom of the page. This retrieves the last Self-Test Report from the ELT 5000 memory and displays it on the RFP Maintenance Page.

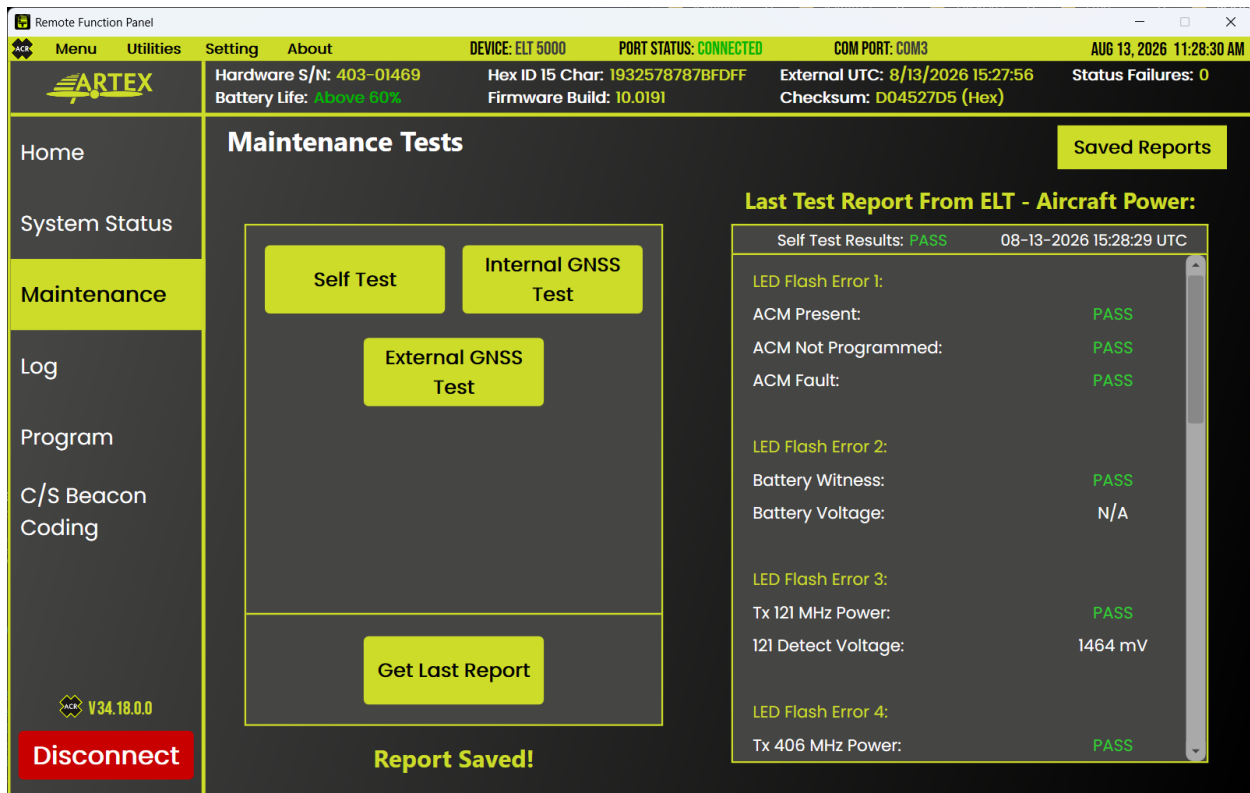


Figure 20 - RFP Retrieve Last Self-Test Report

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7.5 Saving & Viewing Test Reports

1. The Maintenance Page allows the user to automatically Save Test Reports locally on the RFP in a PDF file format.
2. To Save a Test Report, first conduct any one of the 3 tests (Self-Test, Internal GNSS or External GNSS Test) and wait for the test to finish running. This also applies to getting the last report button.
3. Once the chosen test has finished, the current Test Report that is displayed on the RFP is automatically saved to the RFP. A message appears to show that the report has been saved.

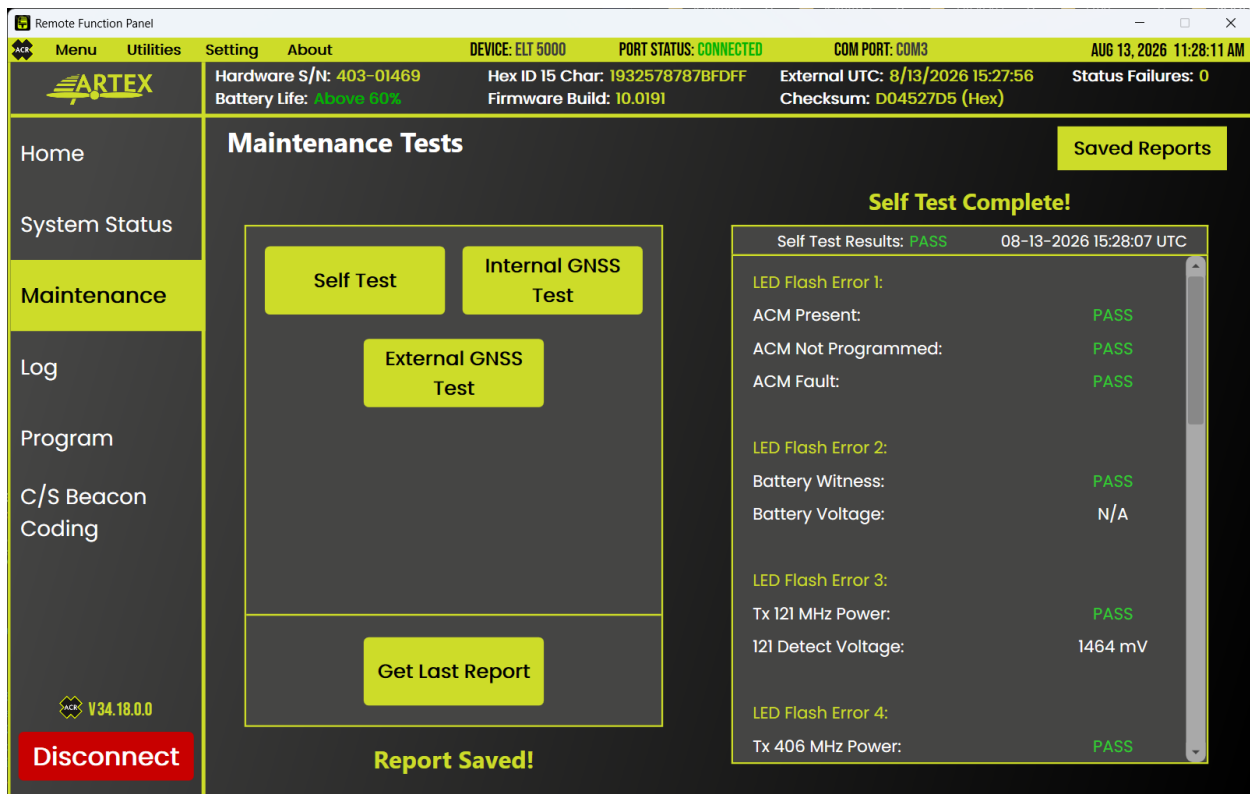


Figure 21 - RFP Maintenance Screen

4. To view all currently Saved Test Reports, select the Saved Reports button located at the top right of the Maintenance Page. This displays a new page.
5. Reports are ordered by the dates of each report with the most recent report always at the top of the list.
6. The Saved ELT-DT Test Reports page shows the following information:
 1. **Test Number:** The list order of Test Reports ordered from most recent to oldest.
 2. **Test Type:** The type of test that was conducted.
 3. **SW P/N:** The Software Part Number of the ELT 5000 firmware of the unit that the test was conducted on.
 4. **HW S/N:** The Hardware Serial Number of the ELT 5000 unit the test was conducted on.

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5. **Test Date:** The date that a test was conducted/saved on.
6. **Test Pass/Fail:** The overall result of the test report. Every test case passed = PASS. If one or more test cases fail = FAIL.
7. **Open Report:** Used to open a saved report.
8. **Select Test Type:** Used to switch which type of reports to view. (Self-Test or GNSS Test).

The screenshot displays the 'Remote Function Panel' interface for the ARTeX ELT 5000. The top status bar shows the device is connected via COM3, with hardware and firmware details. The left sidebar contains navigation options like Home, System Status, Maintenance (highlighted), Log, Program, and C/S Beacon Coding. The main area is titled 'Saved ELT-DT Test Reports' and includes a 'Conduct Tests' button and a 'Select Test Type' dropdown set to 'Self-Test Reports'. A table lists seven test reports with columns for Report #, Test Type, HW S/N, Test Date, Result, and Reports. Reports 1-4 are 'PASS' and Reports 5-7 are 'FAIL'. The 'Reports' column contains blue links to open each report.

Report #	Test Type	HW S/N	Test Date	Result	Reports
1	Self Test - ELT (Com)	403-01469	08-13-2026 15:28:51 UTC	PASS	Report 1
2	Self Test - ELT (Com)	403-01469	08-13-2026 15:28:29 UTC	PASS	Report 2
3	Self Test - RFP (Com)	403-01469	08-13-2026 15:28:07 UTC	PASS	Report 3
4	Self Test - RFP (Com)	403-01469	08-13-2026 15:27:30 UTC	PASS	Report 4
5	Self Test - RFP (Com)	403-01469	08-13-2026 15:26:16 UTC	FAIL	Report 5
6	Self Test - RFP (Com)	403-01469	08-13-2026 15:25:56 UTC	FAIL	Report 6
7	Self Test - RFP (Com)	403-01469	08-13-2026 15:25:23 UTC	FAIL	Report 7

Figure 22 - RFP Maintenance Screen

7. To view a Saved Report, select the corresponding Report (Highlighted in blue) under the Open Report column. This opens the test report PDF for that test.
8. The first page of the Self-Test report shows information about the ELT 5000 and the pass/fail result of the Self-Test that was conducted.

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ELT-DT/ELT 5000



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Self Test Report

1. Device: ELT 5000
2. Date/Time: 08-13-2026 17:13:44 UTC
3. Test: Self Test - RFP
4. Test Power Source: Aircraft Power
5. Cospas Sarsat Message:
FFFED08C992BC3C3DFEFFFDFD000056B5C31
6. Hex ID 15 Characters: 1932578787BFDFF

Self-Test Summary

- | | |
|------------------------|-------------|
| 1. Test Suite Results: | 9/9 |
| 2. Suites Passed: | 9 |
| 3. Suites Failed: | 0 |
| 4. Overall Pass/Fail: | PASS |

Please check itemized results for failures and solutions.

Hardware Info		Software Info	
1. Hardware S/N:	403-01469	1. RFP Version:	34.18.0.0
2. Hardware P/N:	A3-06-3332	2. Firmware P/N:	K3-01-0158
3. Battery S/N:	1007567013112028	3. Firmware Rev:	Rev. K
4. Battery EXP:	11/2028	4. Firmware Build:	10.0191
5. Battery Life:	Above 60%		

Current NVM Settings		Default NVM Settings	
1. Enable ACM:	Disabled	1. Enable ACM:	Disabled
2. 121.5 MHz Homer:	Enabled	2. 121.5 MHz Homer:	Enabled
3. Buzzer In Air:	Disabled	3. Buzzer In Air:	Disabled
Differences are highlighted in Red			

Figure 23 - Self Test Report Document Page 1

9. The next two pages of the Self-Test report show the actual tests that were conducted and the pass/fail result of each self-test.
10. When a test suite fails, the corrective actions column will populate with the recommended action to troubleshoot the failure. Each numbered item in the corrective action's column corresponds directly to the results column numbered item in each row.

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Suite	Test	Operation and Failure Description	Results	Corrective Actions
1	ACM Configuration	Verifies Aircraft Configuration Module.	1. ACM Present = PASS 2. ACM Not Programmed = PASS 3. ACM Fault = PASS	1. No Action Required. 2. No Action Required. 3. No Action Required.
2	Battery Witness	Verifies that battery life is still able to maintain operational and certification requirements.	1. Battery Witness = PASS 2. Battery Voltage = N/A	1. No Action Required.
3	121.5 MHz Transmitter	- Verifies 121.5MHz is operational and transmitting. - Note: When 121.5MHz Test transmission occurs, the Green LED will light.	1. Tx 121 MHz Power = PASS 2. 121 Detect Voltage = 1546 mV	1. No Action Required.
4	406 MHz Transmitter	- Verifies 406MHz is Output Power is >35dBm and Frequency Lock detect is working. - Note: When 406MHz Test transmission occurs, the Green LED will light.	1. Tx 406 MHz Power = PASS 2. 406 Detect Voltage = 2233 mV 3. 406 Reflected Voltage = 795.33 mV 4. PLL Lock = 1550 mV 5. PLL Lock Ripple = 0.87 mV 6. Battery Voltage Burst = N/A	1. No Action Required.
5	Antenna VSWR	Verifies antenna connection has a VSWR of <3:1.	1. Antenna Load VSWR = PASS	1. No Action Required.
6	GNSS System	Verifies Internal or External GNSS receiver is communicating with processor.	1. Nav Data Present = PASS	1. No Action Required.
7	Automatic Trigger Interfaces Ch A and Ch B.	Verifies interfaces are working correctly by receiving ARINC Label 202 over the channels and that the Trigger Lockout Switch is not active.	1. ARINC L202 Present = PASS 2. Trigger Lock = PASS	1. No Action Required. 2. No Action Required.
8	Crash Sensor	Verifies Crash sensor is operational.	1. MEMS Gyro Crash Sensor = PASS	1. No Action Required.

Figure 24 - Self Test Report Document Page 2

Suite	Test	Operation and Failure Description	Results	Corrective Actions
9	Support Tests	Additional ELT Test Checks.	1. ARINC Loopback Test = PASS 2. ATU Health = PASS 3. Battery Connection = PASS 4. Battery Serial Number = PASS 5. Code Checksum = PASS 6. Detect 406 Carrier Lock = PASS 7. NVM Checksum = PASS 8. Temperature = 33 °C	1. No Action Required. 2. No Action Required. 3. No Action Required. 4. No Action Required. 5. No Action Required. 6. No Action Required. 7. No Action Required. 8. No Action Required.
N/A	No Cadence Tests	Additional ELT Test Checks with No Cadence.	1. Air/Ground Check = PASS 2. Aircraft Power 28V = PASS	1. No Action Required. 2. No Action Required.

Figure 25 - Self Test Report Document Page 3

11. To go back to the **Test Page**, select on the **Conduct Test** button in the top right of the Maintenance Page.

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8.0 LOGS

1. The **Log Page** allows the RFP user to view important information about the current state of the ELT 5000 while it is functional. This includes Regular & Critical events.
2. The Event Logs Page currently has the following features:
 - **Event log list:** Displays a list of all Event Logs that have been captured on the ELT 5000.
NOTE: There is a maximum of 1024 event logs stored available for download on the ELT 5000.
 - **Event log details:** Displays the content of an Event Log.
 - **Total Events:** A counter for how many Event Logs are currently stored on the ELT 5000.
 - **Events Loaded:** A counter for how many Event Logs in total have been retrieved from the ELT 5000.
 - **Sort Events:** A filter option to only display a specific Event Log Type.
 - **Event Sub-Types:** A filter option to only display a specific Event Log Sub-Type.
 - **Get logs:** Button for retrieving all the Event Logs from the ELT 5000. Note: Event logs still reside on the ELT after the logs retrieval.
 - **Save logs:** Button for saving all the retrieved Event Logs locally on the RFP in a PDF file format.
 - **Critical Logs:** Shows a new page for viewing Critical Logs. This page has the same feature as the Event Logs Page.
 - **View Saved Logs:** Select Log Reports button to view all the stored Regular & Critical Event Log Reports that are stored on the RFP.

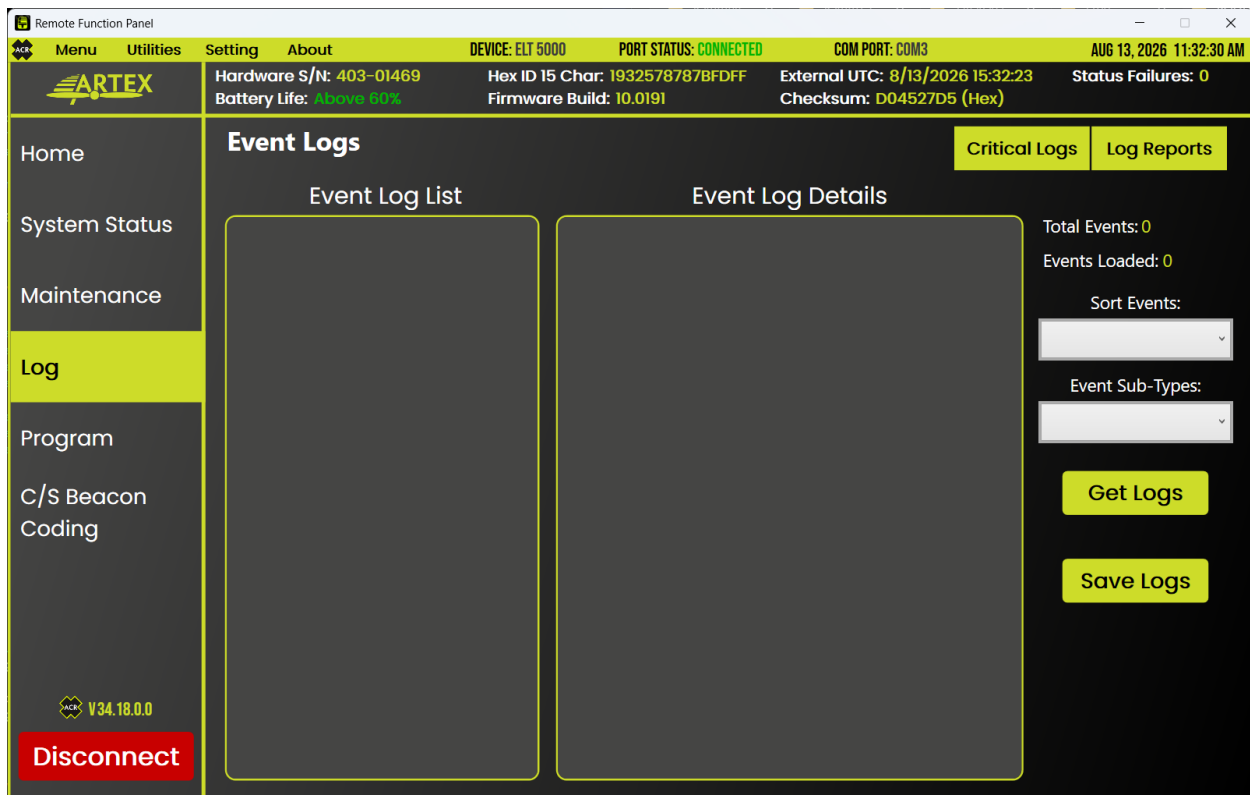


Figure 26 - RFP Regular Logs

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8.1 Regular Event Logs

1. The Event Logs Tab provides information about the Regular Logs.
2. To get all the Regular Event Logs from the ELT 5000, select the Get Logs button. A pop-up window appears showing the status of downloading the Event Logs from the ELT 5000. Note that Regular Event Logs do not contain Critical Event Logs.
3. The RFP user is allowed to cancel this downloading process at any point and the RFP then saves every Regular Event Log that has been downloaded so far.
4. While downloading, the Events Loaded counter increases to display how many Regular Event Logs have been downloaded.

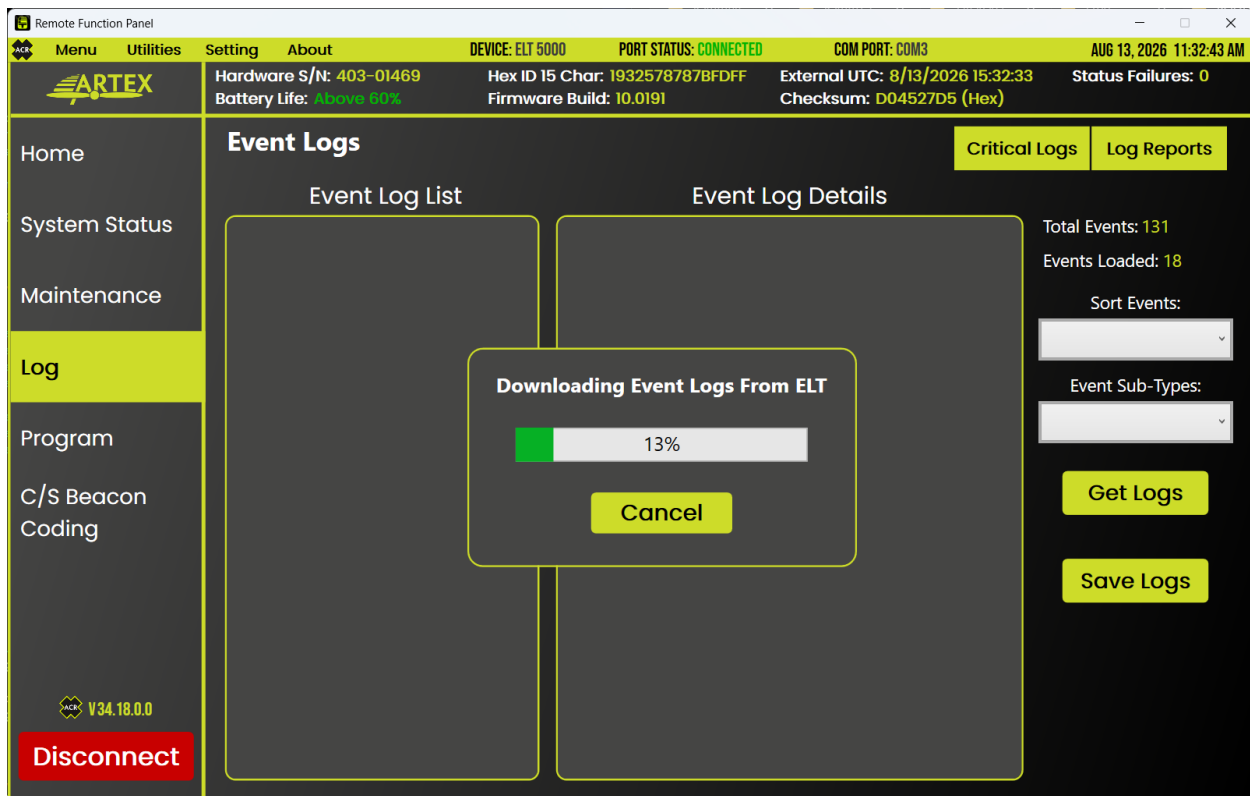


Figure 27 - RFP Regular Logs

5. Once all Regular Event Logs have been downloaded from the ELT 5000, the progress bar shows 100% and the downloaded Regular Event Logs shows up in the Event Log List information box. Select close to dismiss the download pop-up window.

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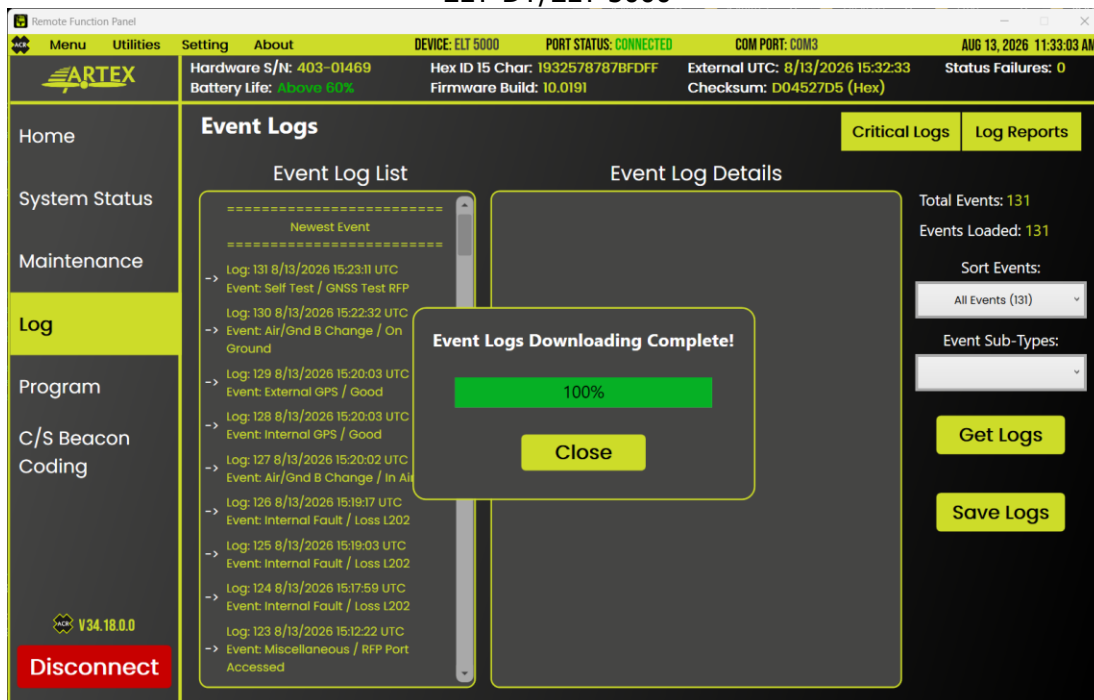


Figure 28 - RFP Regular Logs

- The Event Log List information box displays all Event Logs that have been downloaded from the ELT 5000.

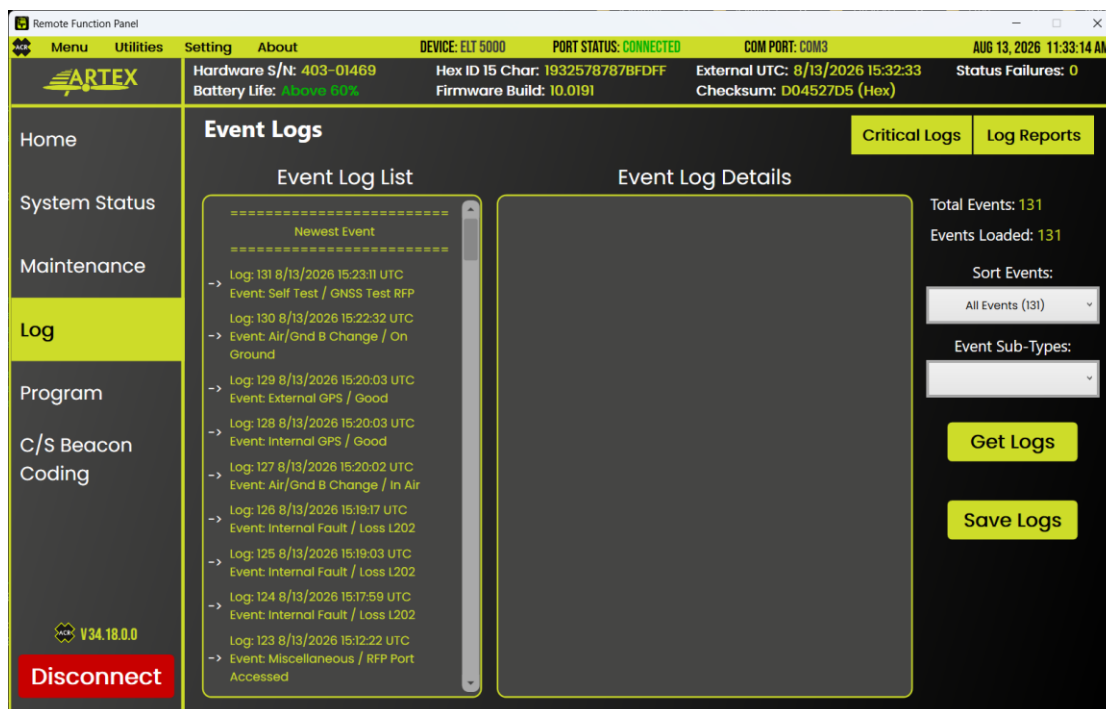


Figure 29 - RFP Log Screen

- Selecting an Event Log Entry opens that Event Log under the Event Log Details information box.

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Remote Function Panel

Menu Utilities Setting About DEVICE: ELT 5000 PORT STATUS: CONNECTED COM PORT: COM3 AUG 13, 2026 11:33:25 AM

Hardware S/N: 403-01469 Hex ID 15 Char: 1932578787BFDFF External UTC: 8/13/2026 15:33:13 Status Failures: 0
 Battery Life: Above 60% Firmware Build: 10.0191 Checksum: D04527D5 (Hex)

Event Logs Critical Logs Log Reports

Event Log List

=====
 Newest Event
 =====

- Log: 131 8/13/2026 15:23:11 UTC
 Event: Self Test / GNSS Test RFP
- Log: 130 8/13/2026 15:22:32 UTC
 Event: Air/Gnd B Change / On Ground
- Log: 129 8/13/2026 15:20:03 UTC
 Event: External GPS / Good
- Log: 128 8/13/2026 15:20:03 UTC
 Event: Internal GPS / Good
- Log: 127 8/13/2026 15:20:02 UTC
 Event: Air/Gnd B Change / In Air
- Log: 126 8/13/2026 15:19:17 UTC
 Event: Internal Fault / Loss L202
- Log: 125 8/13/2026 15:19:03 UTC
 Event: Internal Fault / Loss L202
- Log: 124 8/13/2026 15:17:59 UTC
 Event: Internal Fault / Loss L202
- Log: 123 8/13/2026 15:12:22 UTC
 Event: Miscellaneous / RFP Port Accessed

Event Log Details

Log Entry: 131
 Event: Self Test
 Type: GNSS Test RFP

UTC Timestamp: 8/13/2026 15:23:11 UTC
 RunTime: 0 day 0 hr 11 min 35 sec

Latitude: 26.0511°
 Longitude: -80.1685°
 Altitude: -19 Meters

=====
 Label 201
 =====

Raw Data: 0x40000081
 Tx Operational Status (Bit 11-12): Disabled
 Cmd Input Status (Bit 13-15): No Trigger Active
 Cancellation Input Received (Bit 16): No Cancel Received
 Distress Trigger Origin (Bit 17-20): No Distress Trigger
 ADT Lockout (Bit 26): Normal

Total Events: 131
 Events Loaded: 131

Sort Events:
 All Events (131)

Event Sub-Types:

Get Logs **Save Logs**

Disconnect

Figure 30 - RFP Regular Logs

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8.2 Critical Event Logs

1. To view the Critical Event Logs, select the Critical Logs Button at the top right of the screen. This changes the current view to the Critical Logs page.
2. This page has the same capabilities that the Regular Event Logs Page does except that this page only downloads the Critical Event Logs from the ELT 5000 and show them for viewing.
3. Select the Get Logs Button to download all the Critical Event Logs from the ELT 5000. A pop-up window displays showing download progress.

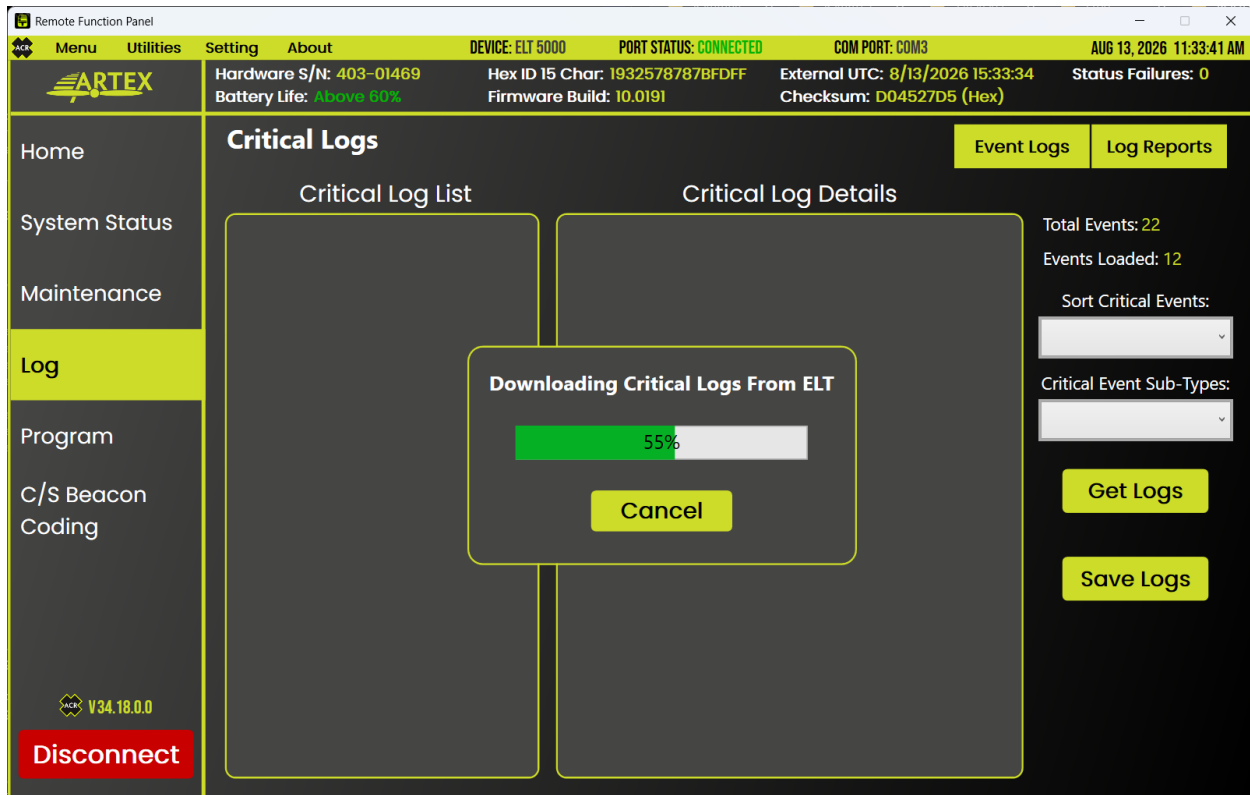


Figure 31 - RFP Critical Logs

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- Once the download has finished, the Critical Logs list text box populates the downloaded Critical Logs.

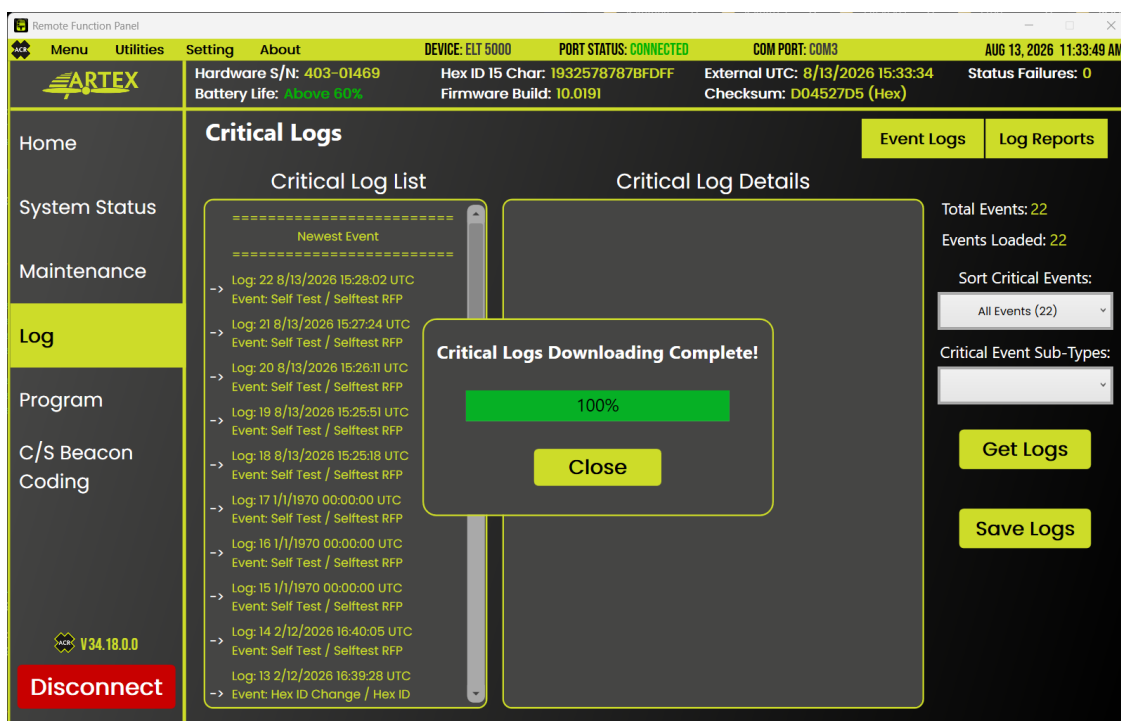


Figure 32 - RFP Critical Logs

- To view a Critical Log, select the Critical Logs List box. The corresponding Critical Log is displayed in the Critical Log Details box.

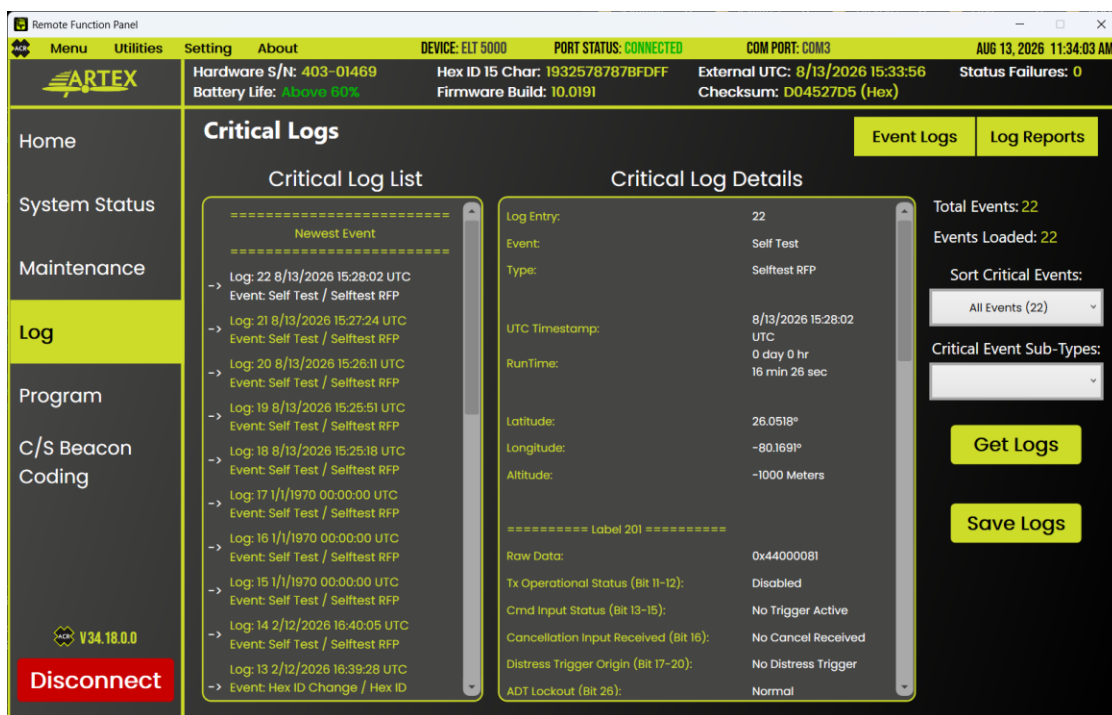


Figure 33 - RFP Critical Logs

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8.3 Event Log Filter

1. The **Event Log Filter** offers a way to view a specific type of event that was logged on the ELT 5000. This is available for both Regular & Critical Event Logs.
2. To use this feature, select on the Sort Critical Events dropdown box.
3. This displays a list of event types. Each event type has a number next to the name that shows how many of the given event types were downloaded.
4. Selecting on one of the event types updates the Event Log List box with the selected event type logs.

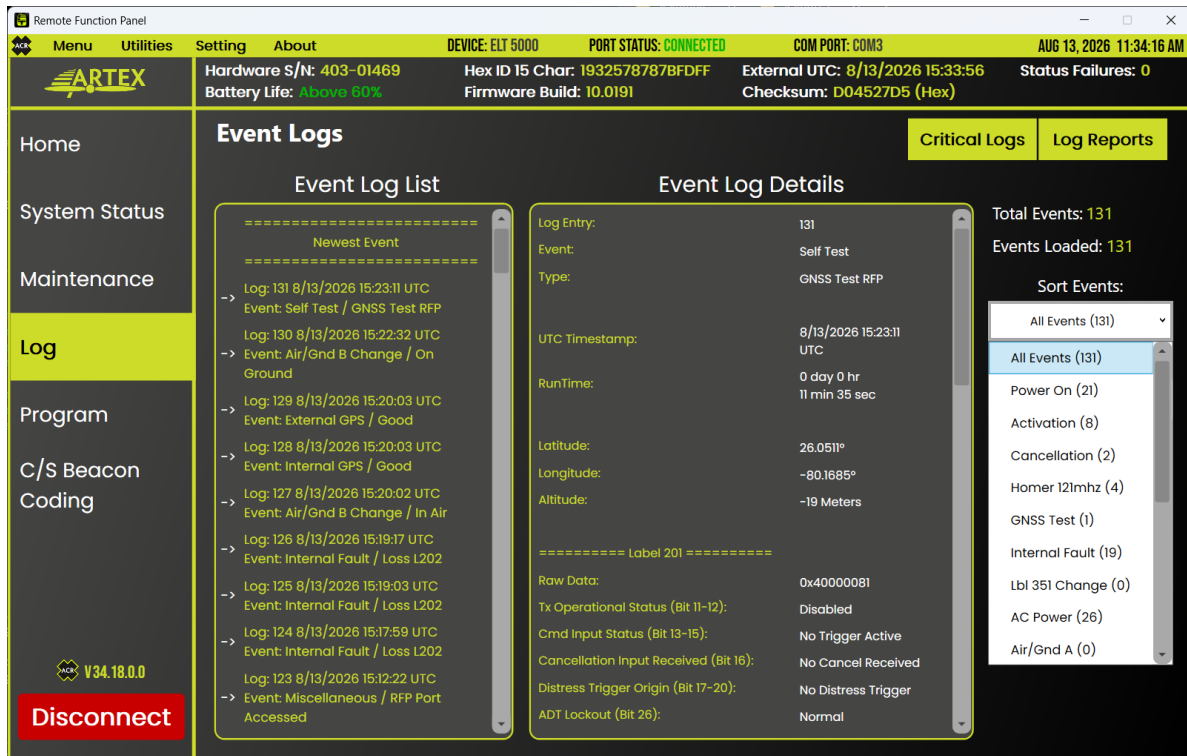


Figure 34 - RFP Logs Sorting By Event Type

5. The Event Types that are available to sort for Regular Events are the following:
 - All Events
 - Power On
 - Activation
 - Cancellation
 - Homer 121.5 MHz
 - GNSS-Test
 - Internal Fault
 - UTC Set
 - Label 351 Change
 - AC power
 - Air/Ground A
 - Air/Ground B
 - Trigger Lock
 - Battery Status
 - Antenna Status
 - ADT Health
 - Internal GPS
 - External GPS
 - Miscellaneous

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6. The Event Types that are available to sort for Critical Events are the following:
 - All Events
 - Self-Test
 - Internal Fault
 - Hex ID Changed
 - Battery Status
7. Once a Specific Event Type has been selected, the Event Sub-Type box becomes available.
8. The Event Sub-Type box allows for the sorting of a specific Event Type by an Event Sub-Type.

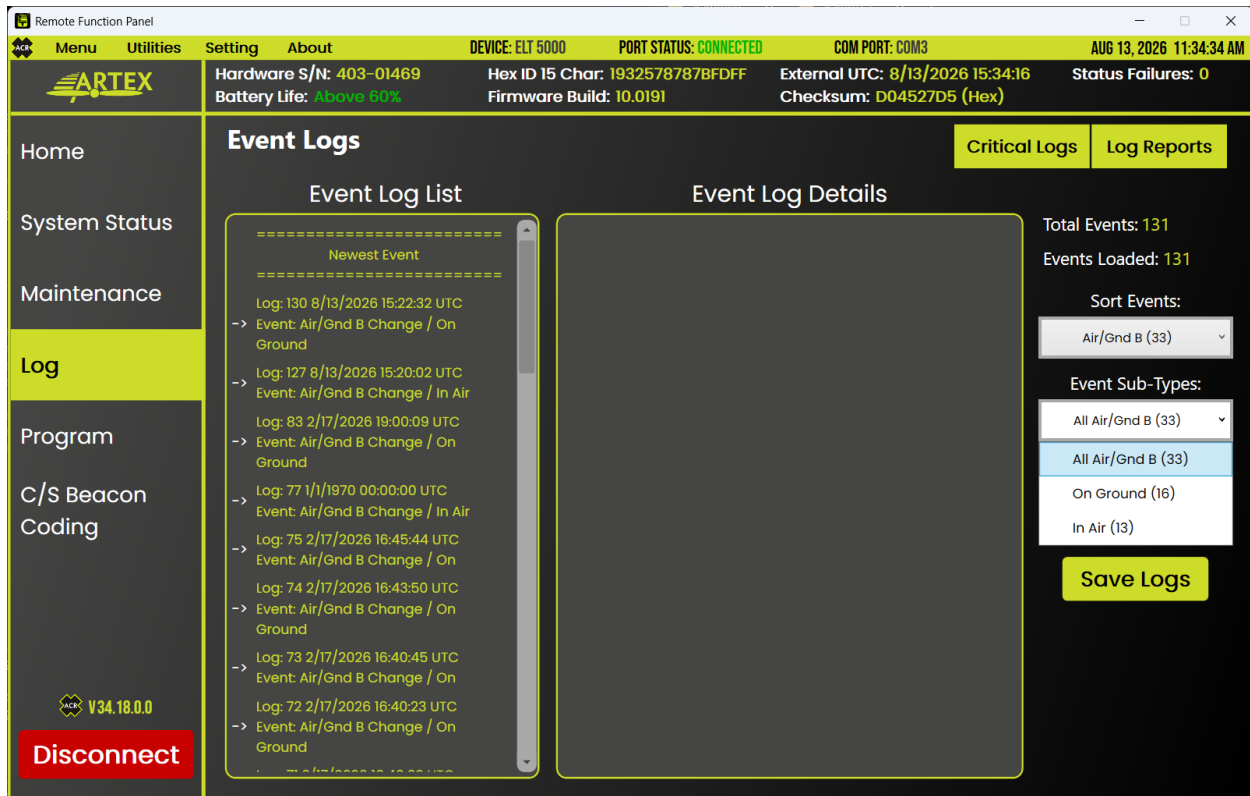


Figure 35 - RFP Logs Sorting By Sub-Type

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8.4 Saving Event Logs

1. To Save all Regular or Critical Logs Downloaded, select the Save Log button on the corresponding page. This saves all Regular or Critical Logs that were downloaded in PDF & CSV files locally on the RFP.
2. To View all saved Event Log files, select on the Log Reports button at the top right of the page.

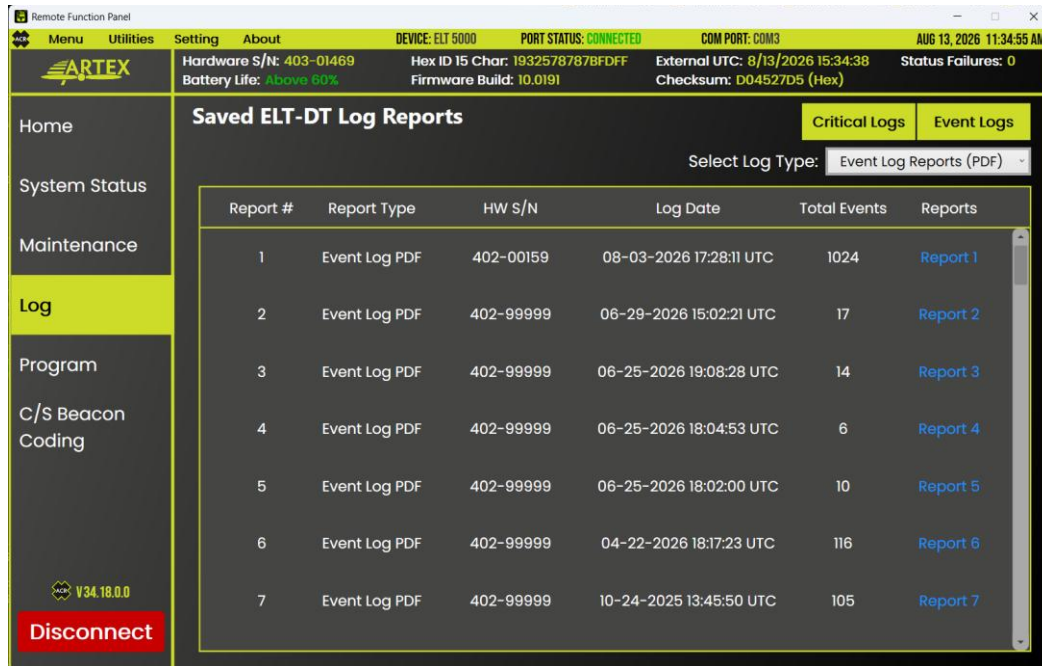


Figure 36 - RFP Saved Log Reports

3. To view the Saved Critical Logs Reports, select on the Select Log Type box in the top right corner of the page. This brings up a filter option dropdown.

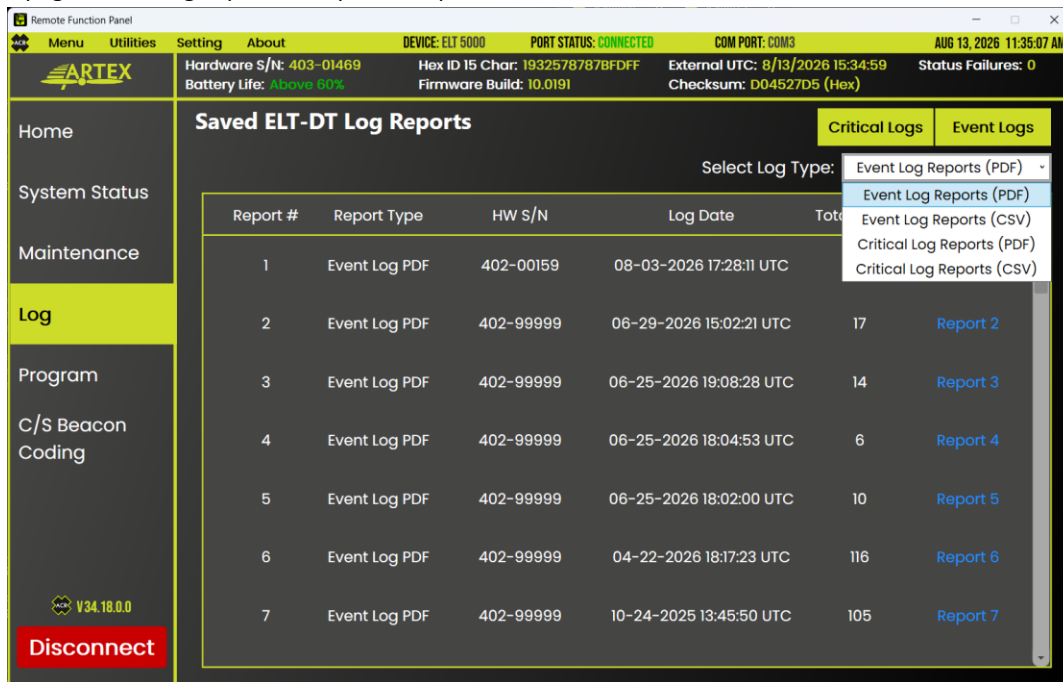


Figure 37 - RFP Saved Log Reports

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9.0 PROGRAM

1. The Program page allows the user to configure ELT and/or ACM options.
2. When navigating to the Program Page, the RFP user is prompted to enter a password. After the correct password is entered, the main page that is loaded is the ELT Memory Options/Configuration Page.
3. The default password for access to the RFP is "scienceofsurvival". To change this password please see section 21.1.

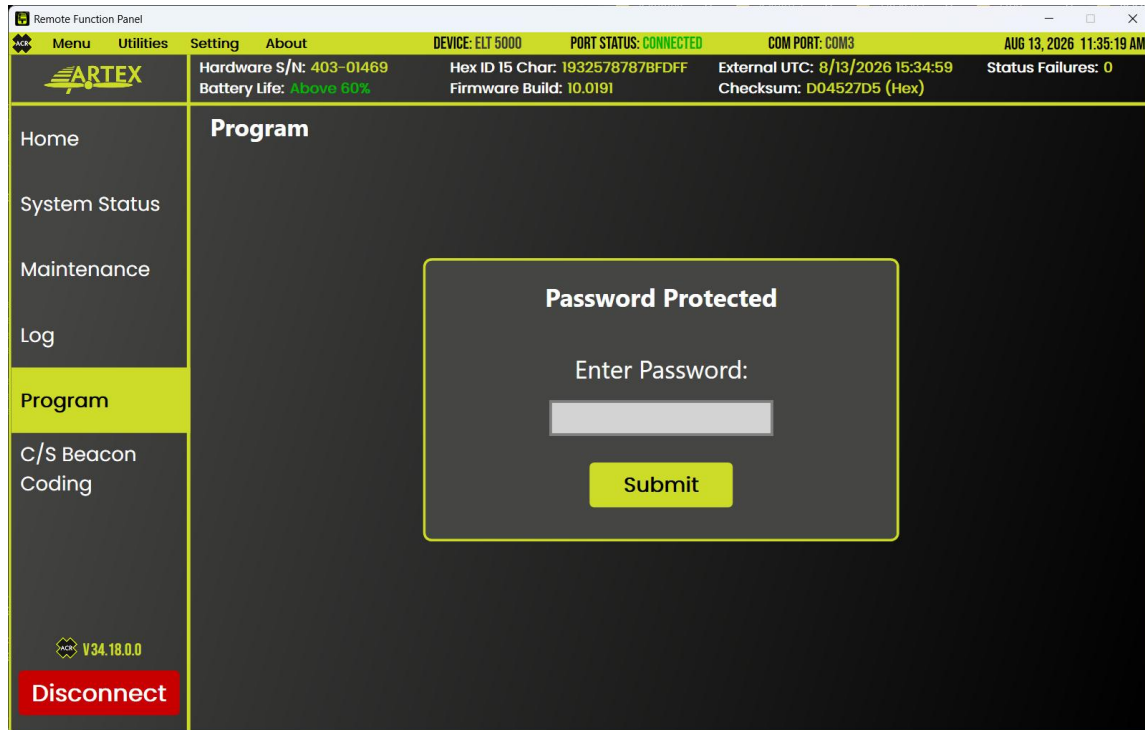


Figure 38 - RFP Program Screen

4. The RFP User can switch between two tabs on the Program Page. ELT Memory Config or ACM Config.
 - 4.1. On the ELT Memory Options page, these options allow the RFP User to read and program certain options for the ELT Memory.
 - 4.2. On the ACM Config page, these options allow the RFP User to read and program certain options for the ACM.
5. When the RFP User selects the Program button, the selected options are set and a message appears to show that the corresponding memory was programmed.

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6. The following options are available for the ELT Memory Configuration Tab:

- **Buzzer Overall Status:** Turn on or off the ELT-DT buzzer.
- **Enable Buzzer in Air:** Enable the ability to use the buzzer while the aircraft is in Air.
- **Read Button:** Gets the ELT Memory Config data and checks the corresponding boxes.
- **Program Button:** Sets the current selection of ELT config options to the ELT Memory.
- **Current ELT Memory Settings:** Displays the status of the current ELT Memory Options that are programmed into the ELT 5000 memory & the current POS Hex ID programmed.

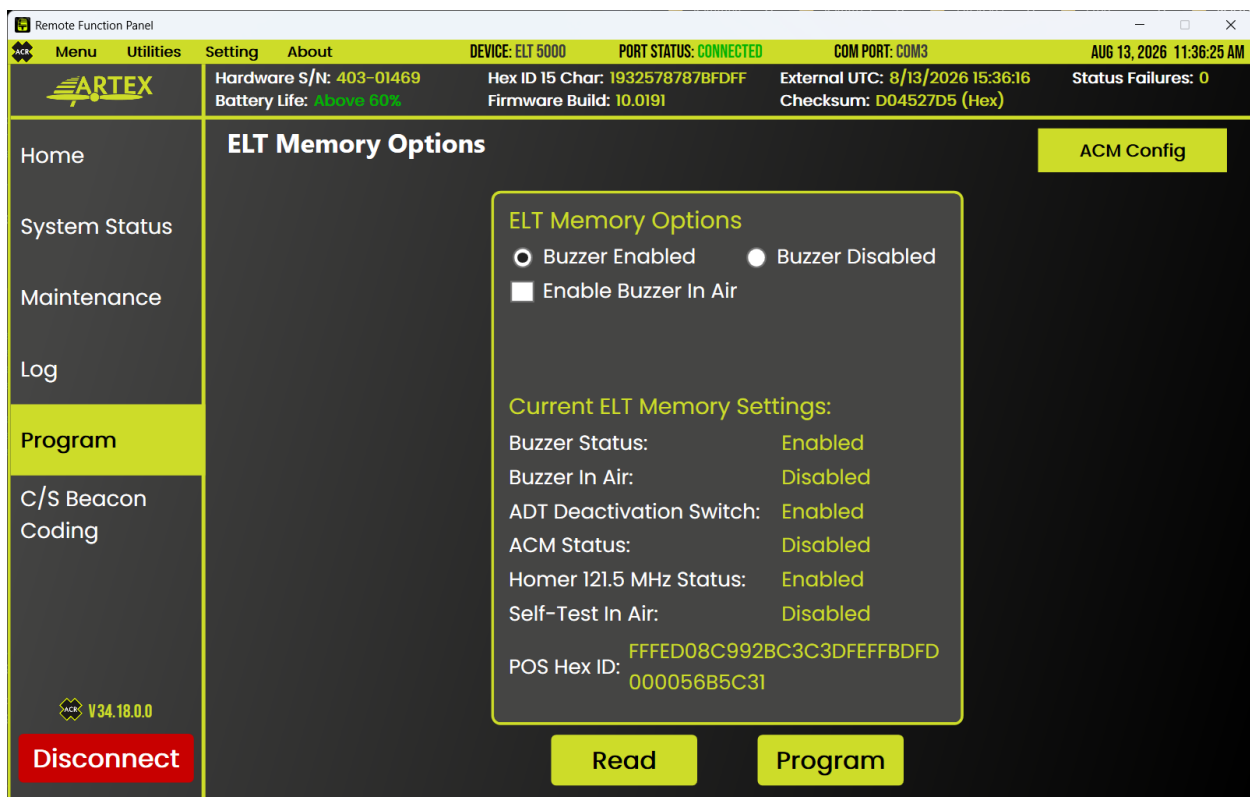


Figure 39 - RFP Program Screen

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7. The following options are available for the ACM Configuration Tab:

7.1. **Enable Buzzer in Air:** Enable the ability to use the buzzer while the aircraft is in Air.

7.2. **Read Button:** Gets the ACM Config data and checks the corresponding boxes.

7.3. **Program Button:** Sets the current selection of ACM config options to the ACM.

7.4. **Current ACM Memory Settings:** Displays the status of the current ACM Memory Options that are programmed into the ACM memory, the current ACM Hex ID & ACM Serial Number programmed.

Note: The Embraer ELT 5000 baseline configuration does not use the ACM, so this page will be disabled for reading/programming.

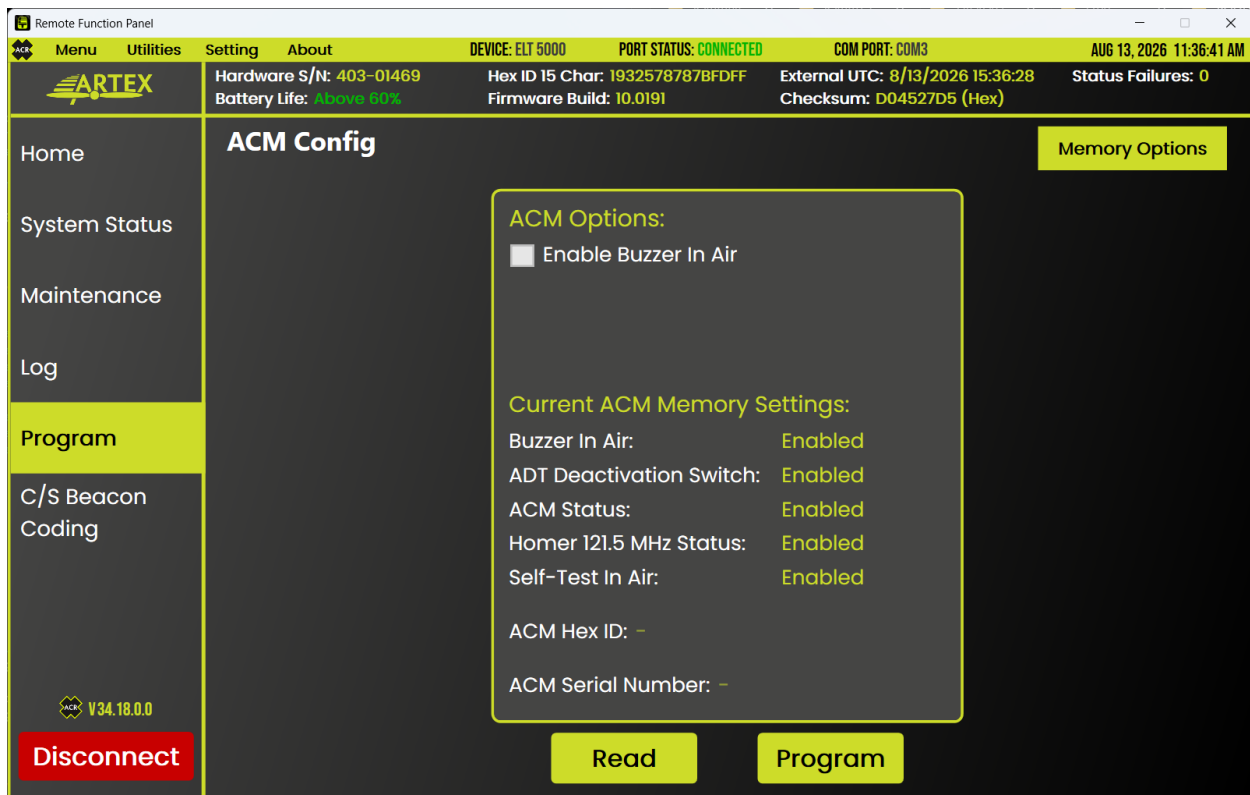


Figure 40 - RFP Program Screen

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10.0C/S BEACON CODING

1. The C/S Beacon Coding Page provides the user the ability to read and/or program the ELT and ACM HEX ID and offers a useful tool for Cospas-Sarsat Hex ID decoding straight from the RFP. Note: This page is password protected with the RFP programming password.
2. The Cospas Sarsat Beacon Coding tool allows the RFP user to configure their own unique Cospas Sarsat HEX ID to be used on the ELT 5000.
3. This tool programs the ELT 5000 memory and/or ACM with the configured C/S message when the Set Hex ID button is selected. Please note that a properly installed ACM is required to use this tool for programming the ACM Hex ID.
4. There are three options available for programming when using this tool. Program ONLY the ELT 5000 by selecting the Only ELT-DT Msg option, program ONLY the ACM by selecting the Only ACM Msg option or program both the ELT 5000 & ACM by selecting the Both ELT-DT/ACM Msg option.
5. On the right side of the page, information displayed shows the currently programmed HEX ID on the ELT 5000 in memory and in the ACM. The following is shown:
 - **Device:** The type of device connected to the RFP.
 - **Current ELT-DT C/S Msg:** Displays the Cospas Sarsat message that is currently programmed in the ELT-DT memory.
 - **Current ELT-DT Protocol:** Displays the current protocol of the currently set Cospas Sarsat message in the ELT 5000 memory.
 - **Current ACM C/S Msg:** Displays the Cospas Sarsat message that is currently programmed in the ACM.
 - **Current ACM Protocol:** Displays the current protocol of the currently set Cospas Sarsat message in the ACM.
 - **C/S Msg Check:** States whether the Cospas Sarsat messages in the ELT 5000 memory and ACM are matching IDs.
6. The following is available on the Cospas Sarsat Beacon Coding tool:

Note: The Aircraft-24-bit with 3LD protocol is required for operators who wish to track any events through the EUROCAE LADR.

- **Protocol Type:** Set the device target type. Only the DT protocol is available.
- **DT Protocol:** Set the ELT Identity Type.
 - **Aircraft-24-bit with 3LD**
 - **Aircraft 24-bit (No 3LD)**
 - **Aircraft Operator**
- **Country Code:** Set the country code from a list of countries.
- **Serial/TAC Number**
- **DT Test Location**

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7. The RFP user can select a DT Protocol, and the corresponding textboxes are enabled to allow text to be entered.
8. The box at the bottom of the screen containing a Hex ID is automatically updated based on the information that is entered.

The screenshot displays the Remote Function Panel (RFP) interface for the ELT 5000 device. The top status bar shows the device is connected via COM3, with a timestamp of August 13, 2026, at 11:36:54 AM. The main configuration area is titled "Cospas Sarsat Beacon Coding" and includes a sidebar with navigation options: Home, System Status, Maintenance, Log, Program, and C/S Beacon Coding (which is currently selected). The configuration area is divided into several sections: "Location Protocol" (set to ELT-DT), "Protocol Code" (set to Aircraft 24-Bit - 3LD), "A/C 24 bit Addr (Hex)" (set to AF0F0F), "3LD" (set to YYY), "Serial Number", "Tac Number", "Country Code" (set to USA (366)), "Frame Sync" (set to Normal), "C/S Msg" (set to FFFE2F96E92BC3C3DFFFC94DAC0056B5C31), "15 Hex" (set to 2DD2578787BFDFF), and "Set Hex ID" and "Save Report" buttons. On the right side, there are three panels: "Device: ELT 5000", "Current ELTDT POS Msg" (FFED08C992BC3C3DFFBDFD 000056B5C31), "Current ELTDT Protocol" (Aircraft 24-Bit Address - 3LD: (YYY / AF0F0F Hex)), "Current ACM C/S Msg" (ACM Disabled!), "Current ACM Protocol" (N/A), and "C/S Msg Check" (N/A).

Figure 41 - Beacon Coding Configurator

9. When finished with configuration, select the Set Hex ID button at the bottom of the screen. This programs the ELT 5000 and/or ACM with the created C/S Message.
10. After the Set Hex ID button has been selected, the information on the right panel updates with the new Hex ID information.
11. The Cospas Sarsat Beacon Coding tool can save a Protocol Report that provides information about the currently programmed C/S Message on the ELT 5000/ACM. This can be done by pressing the Save Report button.
12. To change to the RFP Decoder page, select the C/S Decoder button at the top right of the page. The window then changes to the RFP Decoder.
13. The RFP Decoder allows the RFP user to either enter their own 36-character Cospas-Sarsat Hex ID, 15-character Cospas-Sarsat Hex ID or to get the current programmed Cospas-Sarsat Message that is on the ELT 5000.
14. This beacon decoder is created for second generation beacons of 36 hex characters and is defined by Cospas-Sarsat T.001 Issue 4 – Rev 6.

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15. The following is available on the Decoder Page:

- Enter a Cospas-Sarsat Hex ID.
- Get the current programmed Cospas-Sarsat Hex ID on the ELT 5000.
- Decode the entered Cospas-Sarsat Hex ID.

The screenshot displays the 'Remote Function Panel' window for the ELT 5000. The top status bar shows 'DEVICE: ELT 5000', 'PORT STATUS: CONNECTED', 'COM PORT: COM3', and the date/time 'AUG 13, 2026 11:37:09 AM'. Below this, a summary row provides hardware details: 'Hardware S/N: 403-01469', 'Hex ID 15 Char: 1932578787BFDFF', 'External UTC: 8/13/2026 15:36:48', and 'Status Failures: 0'. A second row shows 'Battery Life: Above 60%', 'Firmware Build: 10.0191', and 'Checksum: D04527D5 (Hex)'. The main interface is titled 'Cospas Sarsat Decoder' and features a sidebar with navigation options: Home, System Status, Maintenance, Log, Program, and 'C/S Beacon Coding' (which is highlighted). The main area contains input fields for 'Enter a Cospas Sarsat ID (36 or 15 Char):' and 'Decoded Hex ID 15 Char:', along with buttons for 'Get Current C/S Msg: Get C/S Msg' and 'Decode C/S Msg: Decode Msg'. Below these is a table with the following columns: 'Binary Range', 'Binary Content', 'Field Name', and 'Decoded Value'. The table body is currently empty. At the bottom left, there is a 'Disconnect' button and a version indicator 'V34.18.0.0'. At the bottom right, a small note states '* Beacon Decoder defined by T.001 Issue 4 - Rev.6.'

Figure 42 - RFP Decoder Screen

16. When the Decode Msg button is selected, the entered 36- or 15-character Cospas Sarsat ID is decoded. If the ID was a 36 character, then a 15-character Hex is decoded and displayed.

17. The output of the decoder is in the form of a table with the following columns:

- **Binary Range:** The interval range that the binary bits are within.
- **Binary Content:** The binary bit values that are within the set Binary Range.
- **Field Name:** The identifier that corresponds to the Binary Range.
- **Decoded Value:** The Field Name information values that are the result of the Binary Content.

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Remote Function Panel
AUG 13, 2026 11:37:21 AM

Menu Utilities Setting About

 DEVICE: ELT 5000 PORT STATUS: CONNECTED COM PORT: COM3

Hardware S/N: 403-01469
Battery Life: Above 80%
Hex ID 15 Char: 1932578787BFDFF
Firmware Build: 10.0191
External UTC: 8/13/2026 15:37:09
Checksum: D04527D5 (Hex)
Status Failures: 0

ARTEX

Home

System Status

Maintenance

Log

Program

C/S Beacon Coding

V34.18.0.0

Disconnect

Cospas Sarsat Decoder
C/S Reports
Beacon Coding

Enter a Cospas Sarsat ID
(36 or 15 Char):

FFFED08C992BC3C3DFFBDFD00056B5C31

Decoded Hex
ID 15 Char:

1932578787BFDFF

Get Current C/S Msg:

Get C/S Msg

Decode C/S Msg:

Decode Msg

Binary Range	Binary Content	Field Name	Decoded Value
1-15	111111111111111	Bit-synchronization pattern consisting of 1's shall occupy the first 15-bit positions	True
16-24	011010000	Frame Synchronization Pattern	Test protocol message coded for non-operational use
25	1	Format Flag	Long Message
26	0	Protocol Flag	Standard location protocols or national location protocol
27-36	0011001001	Country Code	Albania - 201

* Beacon Decoder defined by T.001 Issue 4 - Rev.6.

Figure 43 - RFP Decoder Screen

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11.0 RFP DISCONNECTION

1. After an RFP user is finished with their ELT 5000 maintenance task, select the Disconnect button at the top of the screen. A pop-up window is displayed. Select Disconnect.

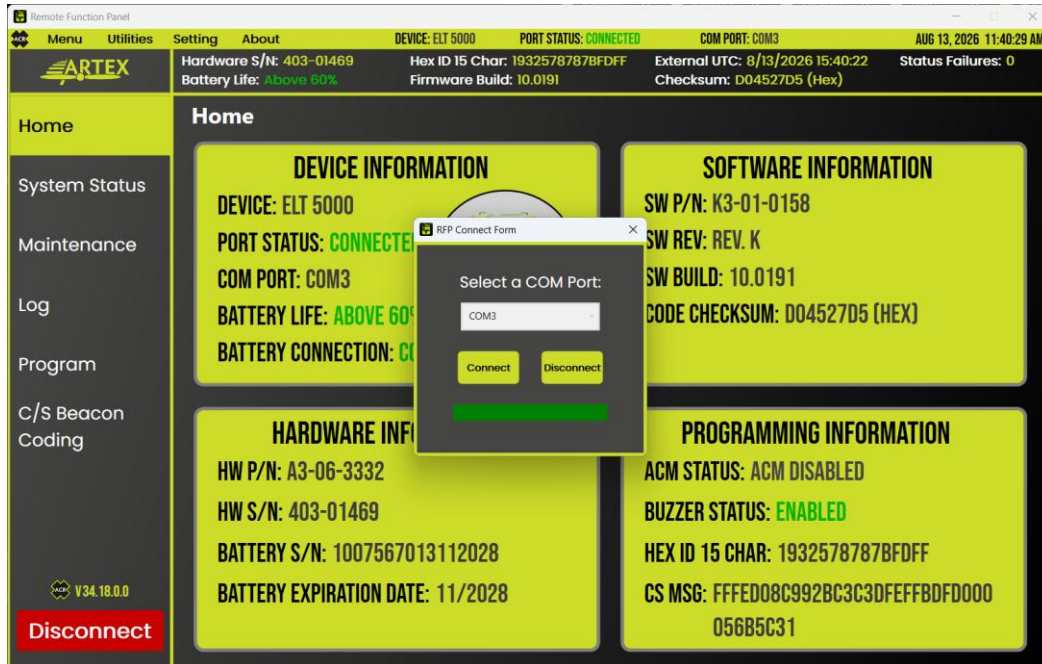


Figure 44 - RFP ELT 5000 Disconnect

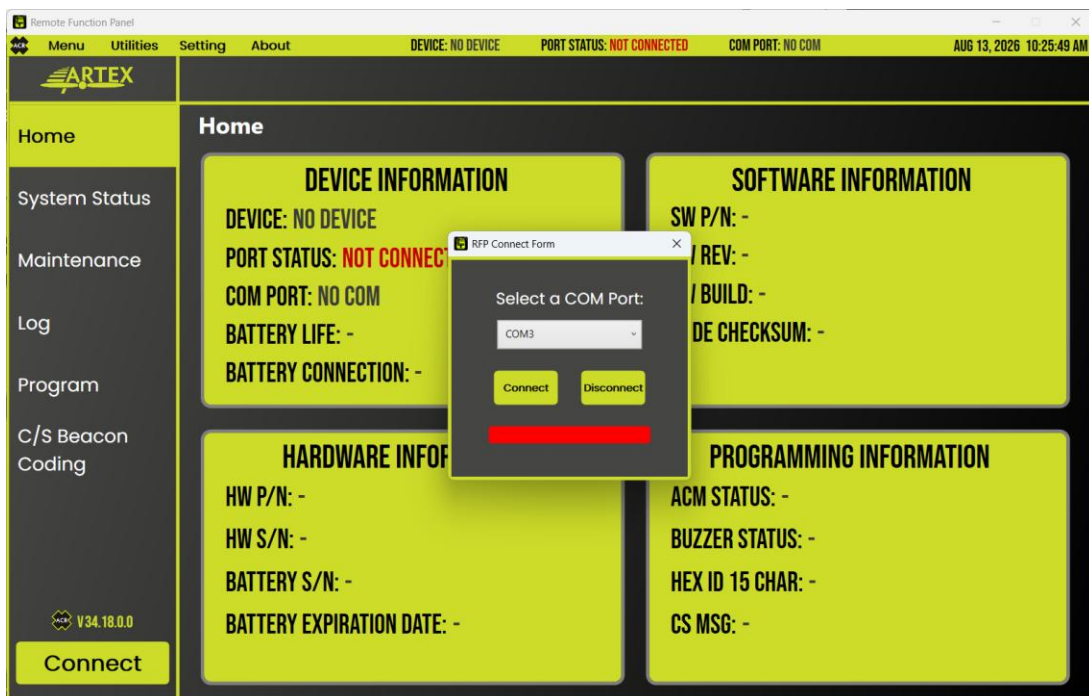


Figure 45 - RFP ELT 5000 Disconnect

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12.0 RFP MAINTENANCE – BOEING ELT 5000 (A3-06-3249)

12.1 How to Use This RFP Manual (Boeing Operations)

- This manual describes maintenance operations requiring the operational use of the RFP to support activities related to Boeing's ELT 5000 (A3-06-3249). Information presented in this manual is accurate at the time of printing but is subject to change. Refer to the ARTEX web site at www.acrartex.com for the latest information and any updates to this manual.
- Standard maintenance procedures for use of the ELT 5000 that technicians must know are not provided in this manual.

12.2 RFP Check – Battery Life

1. Power on RFP. Enter credentials, as required.
2. Check Battery Level of the RFP in the bottom right corner. Consider Battery Levels relative to service life and how much energy is required to perform standard maintenance using the tablet. For reference, standard RFP self-tests consume <1% of functional service life.

12.3 ELT 5000 Check – ARINC Comms

1. Provide the ELT-DT with ARINC communication
 - If ARINC Communication is not present, the red LED will illuminate. 
 - If ARINC Communication is present the green LED will illuminate. 



Figure 46 – ELT-DT (A3-06-3249) Front Panel

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13.0 INTRODUCTION

1. The RFP is a Maintenance Tool created by ACR Electronics to provide Maintenance support to the ELT 5000. It provides a user-friendly interface to support Cospas Sarsat and FAA maintenance activities, as well as customer specific maintenance actions to support operations.
2. The RFP allows the user to perform the following actions for the ELT 5000:
 - Monitor Battery Life (Section 12.2)
 - Monitor ARINC Labels (Section 12.3)
 - Monitor CCP Switch (Section 15.0)
 - *Perform a Series of Self-Tests (Section 16.0) – Required Maintenance Actions*
 - Download Self-Test Report (Section 16.5)
 - Monitor Event Logs (Section 17.0)
 - Download Event Log Data (Section 17.4)
 - Silence the Buzzer (Section 18.0)
3. The actions above provide insight to the user regarding interactions between the ELT-DT and ATU.

14.0 GETTING STARTED

1. Connect the ELT-DT to the RFP using the 17 Pin Harness to ELT 5000 (A3-06-3382). Be sure to secure all connections.
2. Upon the first launch of the RFP application, an End-User License Agreement (EULA) appears. It is REQUIRED by the RFP User to accept this EULA or the RFP is not usable.

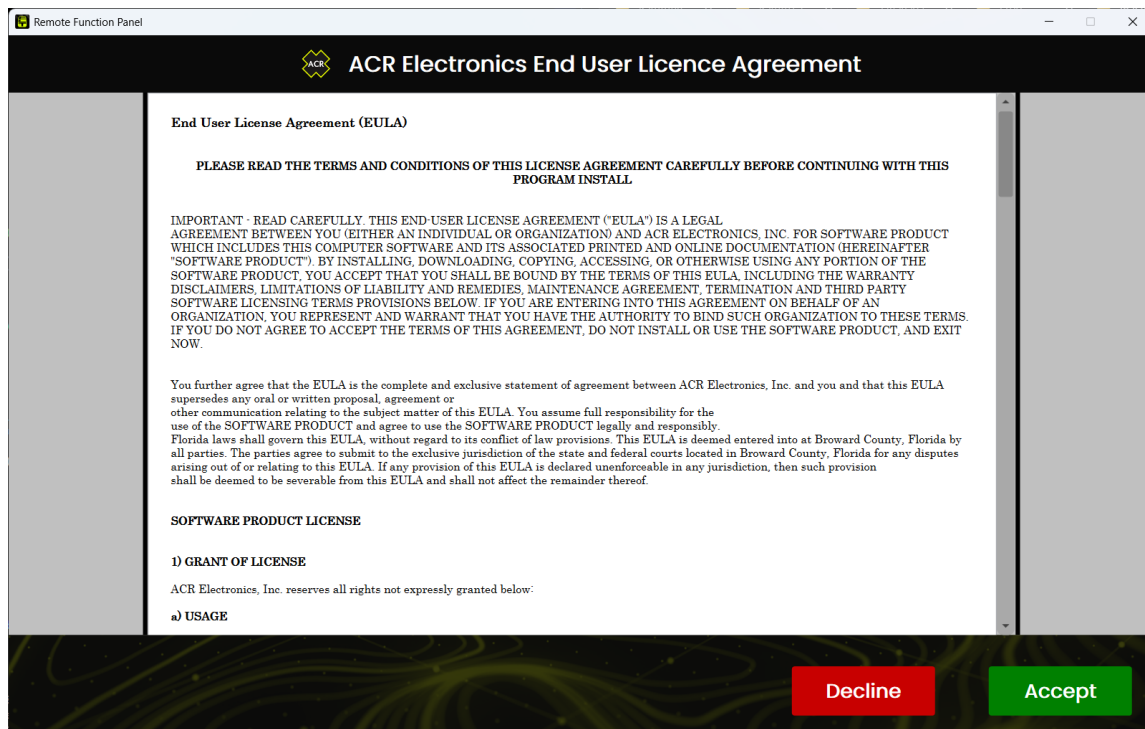


Figure 47 - RFP EULA

3. Once the EULA has been read by the RFP User, click the accept button to start using the RFP.

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4. Once the EULA has been accepted, the home screen is displayed. The connection status in the figure below states that the RFP is not connected to the ELT 5000.

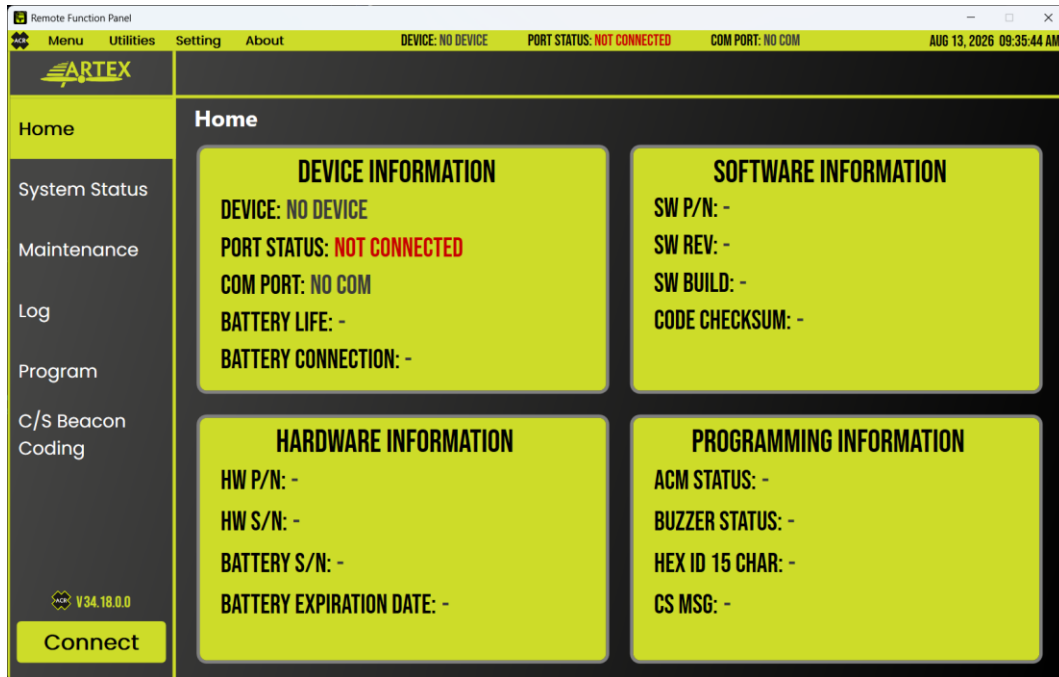


Figure 48 - RFP Home Screen

6. Select the **Connect** button displayed at the bottom left of the home screen.
- 6.1. The connection prompt will launch.
- 6.2. The RFP automatically selects the last COM Port that was successfully connected to.

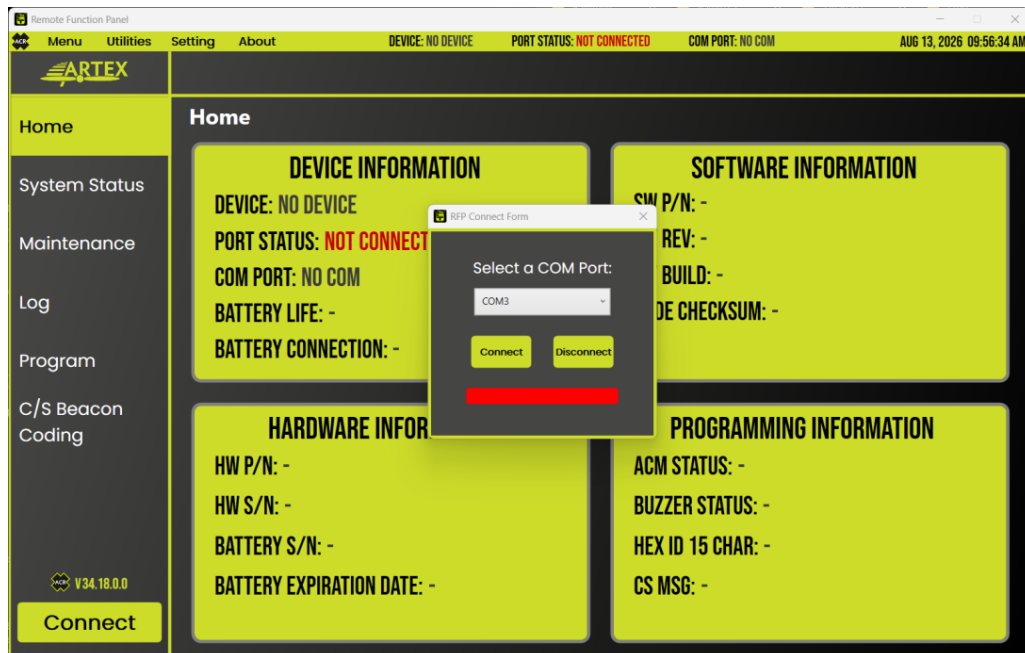


Figure 49 - RFP Connect Screen

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6. If more than one COM Ports are available, a Dropdown selection displays the available COM Ports.
7. If applicable, select the appropriate COM Port from the Dropdown selection.

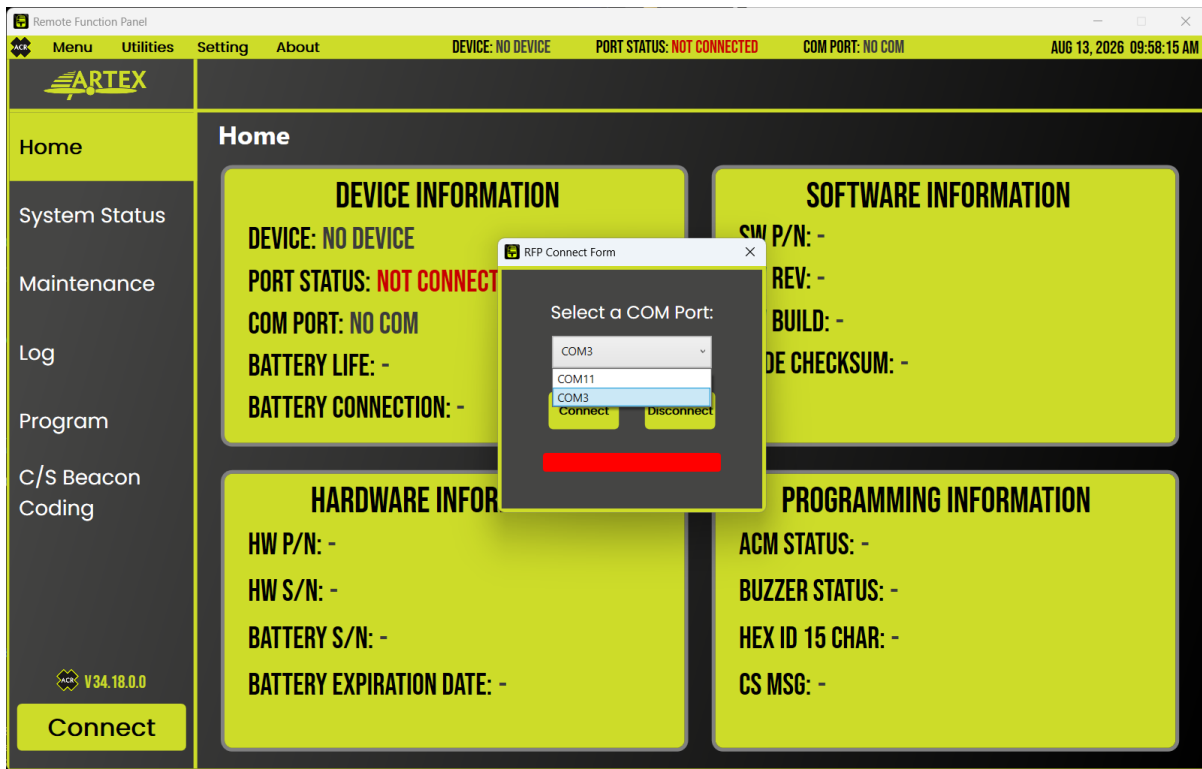


Figure 50 - RFP Connect Screen

8. Select the **Connect** button. If successful, a connection to the ELT 5000 shall be established, and the home screen information is updated with the device information. The Home section header provides important information about the ELT 5000 and persists on every page. After successful connection, the RFP will display a Disconnect option.

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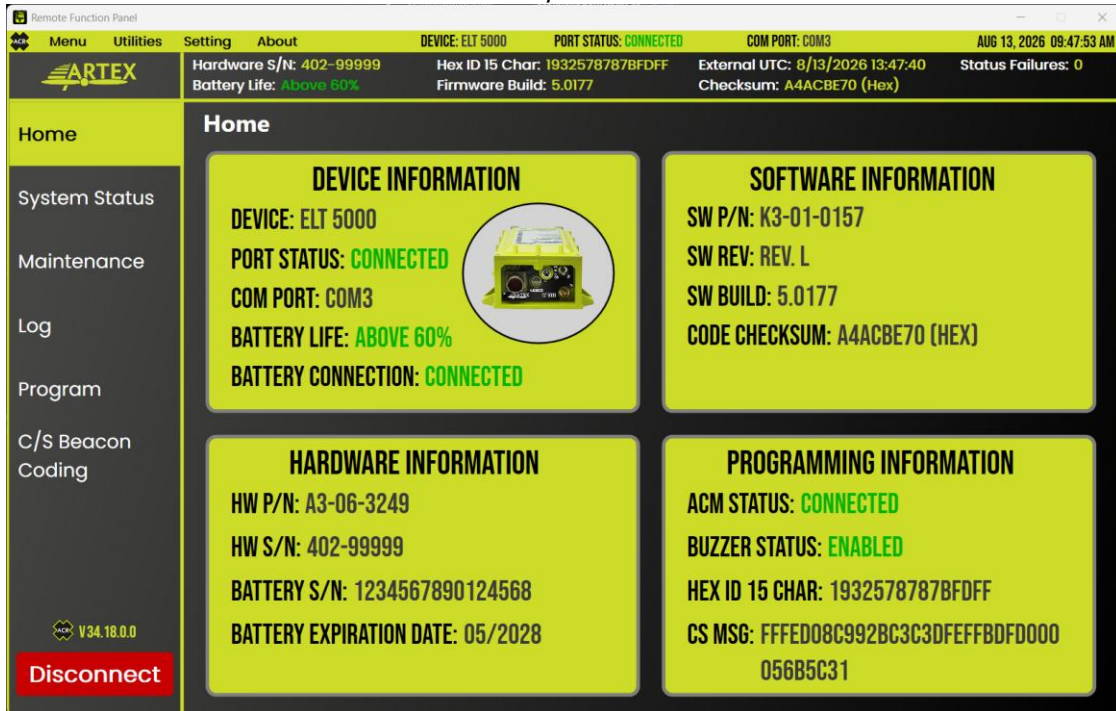


Figure 51 - RFP Connect Screen

10. Once connected, the Home section displays the following information boxes:

- **DEVICE INFORMATION**
- **SOFTWARE INFORMATION**
- **HARDWARE INFORMATION**
- **PROGRAMMING INFORMATION**

These information boxes include:

- **Device Type**
- **Connection/Port Status: Connected | Not Connected**
- **COM Port Number**
- **Battery Life: Below 5%, 5%, 10%, 20%, 30%, 40%, 50%, 60% & Above 60%(**
 - **Notes:**
 - a. The Battery Life percentage only applies to the first hour of operational usage. The ELT-DT battery must be replaced after one hour of accumulated usage in accordance with regulatory requirements.
 - b. Recommend replacing battery at Below 5% or prior to 5 year expiration date, whichever comes first)
- **Battery Connection: Connected | Disconnected**
- **SW P/N (Software Part Number)**
- **SW Rev (Software Revision)**
- **SW Build # (Software Build Number)**
- **Code Checksum**
- **HW P/N (Hardware Part Number)**
- **HW S/N (Hardware Serial Number)**
- **Battery S/N (Battery Serial Number)**
- **Battery Expiration Date**

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- **ACM Status:** Connected | Disconnected
 - **Buzzer Status:** Enabled | Disabled
 - **The Current Cospas Sarsat Hex ID Programmed (36 character and 15 character)**
11. To switch between screens, use the navigational menu on the left.
 12. The RFP Software Version is listed at the bottom of the menu panel.
 13. At the top of the RFP the Home section header provides important information about the ELT 5000 and persists on every page. The following is displayed:
 - **Hardware Serial Number**
 - **Battery Life**
 - **Hex ID 15 Char**
 - **Firmware Build**
 - **UTC Time** (Shows either Internal or External UTC if available)
 - **Checksum** (Shows the current code checksum of the ELT 5000 firmware)
 - **Status Failures** (Shows the amount of status failures displayed on the system status page)
 14. The Home Page statuses displays RED if no ACM is installed (when ACM is Enabled), the Buzzer is disabled, no Hex ID is programmed, Battery is Below 5%, or the Battery is disconnected.

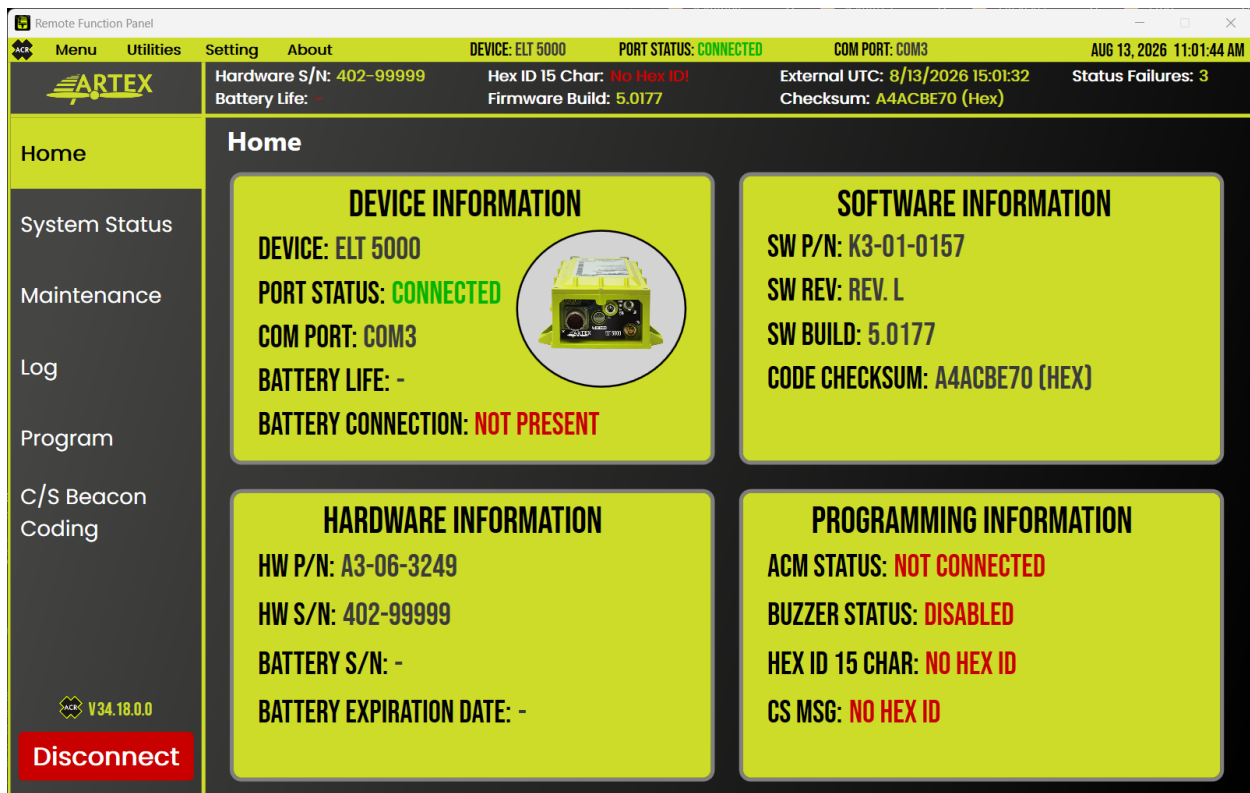


Figure 52 - RFP Home Screen

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15.0 SYSTEM STATUS

1. When switching to the System Status page, the page automatically updates with the ELT 5000's current states and statuses if connected to the correct COM Port.
2. These states and statuses are updated based on changes that are made from the ELT 5000 and the ATU. Important faults are indicated by a green or red background to the status states to the right of the status parameter.



Figure 53 - RFP System Status with No Faults

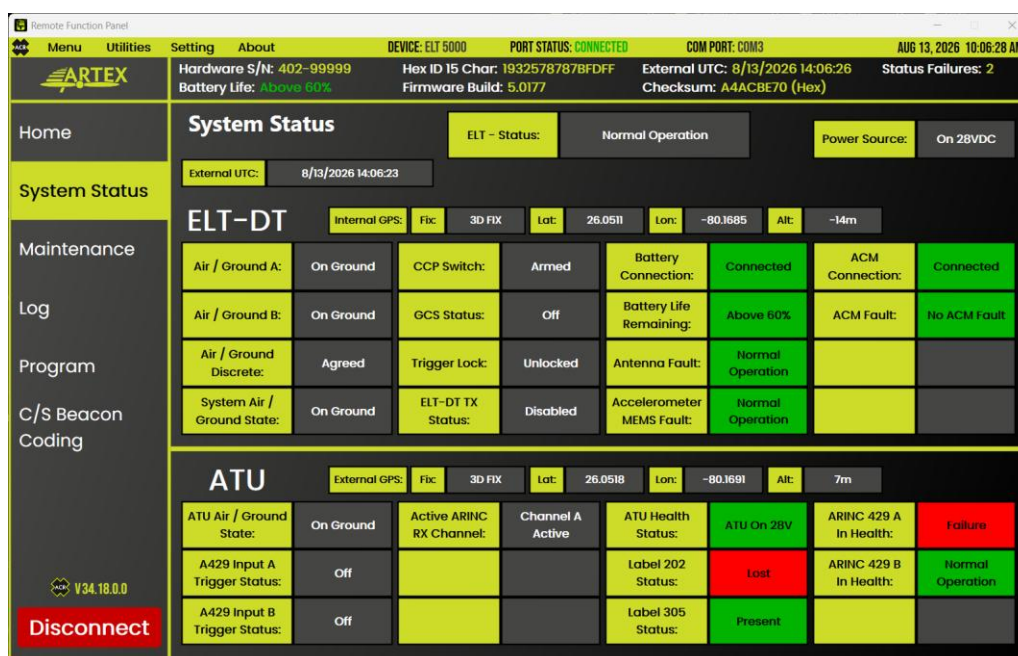


Figure 54 - RFP System Status with Faults

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3. At the top of the System Status page, a status called ELT-Status shows the current state of the ELT 5000.

4. The available ELT 5000 statuses are as follows:

- **Normal Operation:** In a normal operations state
- **Cancelled:** In a cancellation state.
- **Activated (Manual):** In a manual activation state via the Cockpit Control Panel Switch (CCP).
- **Activated (Auto):** In an automatic distress activation state via Label 202.
- **Activated (Crash):** In a crash activation state via the MEMES accelerometer.
- **Activated (Loss of 202):** In a loss of Label 202 activation state via losing Label 202 and ATU Health Status is set to Bad Health.

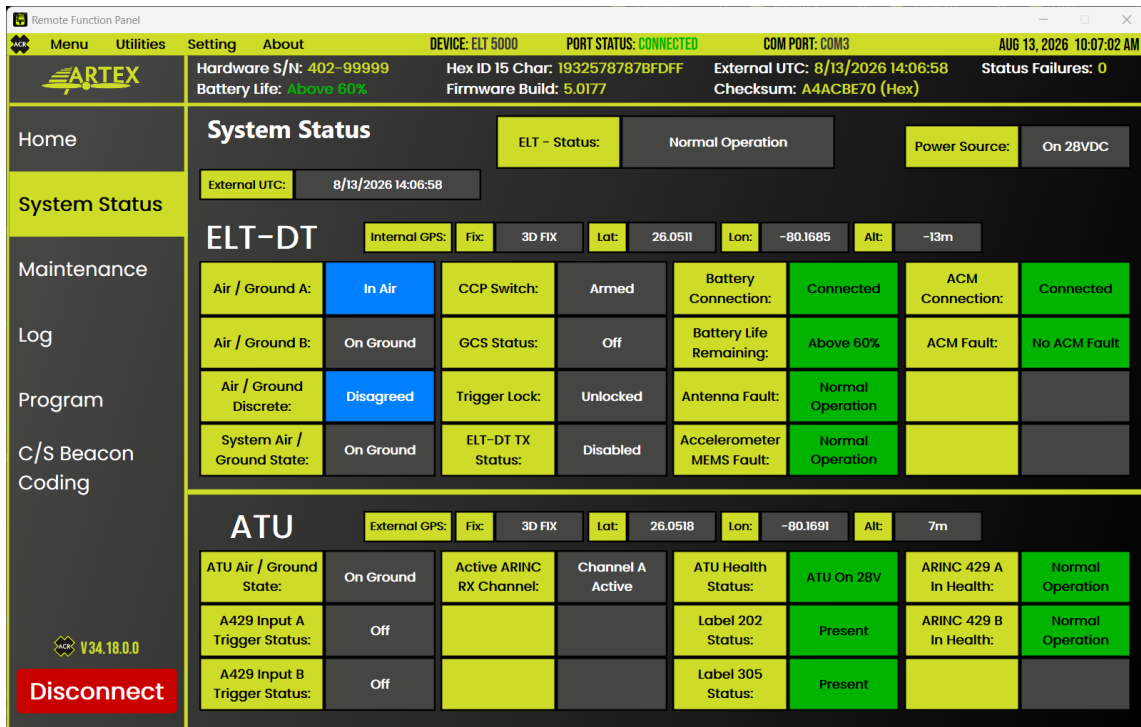


Figure 55 - RFP System Status Screen

5. When an update occurs, the status state columns (second columns) briefly change the cell background color to blue indicating a change has occurred for that status.

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6. Table 3 provides a listing of all Output States available on the RFP System Status screen.

Table 3 - RFP System Status Page Status Table

System Status Name	Function	ARINC 429 Label (if applicable)	Output States
ELT - Status	ELT-DT System State	N/A	• Normal Operation / Cancelled • Activated (Manual) • Activated (Auto) • Activated (Crash) • Activated (Loss 202) • Every Combination of the 4 activations
Power Source	ELT-DT Active Power Source	Label 274 Bit 16	• On 28V (0) • On Battery (1)
Air / Ground A	Wired Airplane Air/Ground A Status	N/A	• On Ground • In Air
Air / Ground B	Wired Airplane Air/Ground B Status	N/A	• On Ground • In Air
Air / Ground Discrete	Wired Airplane Air/Ground A & B Discrete	Label 275 Bit 25	• Agreed (0) • Disagreed (1)
System Air / Ground	System Air / Ground State	Label 275 Bit 27	• In Air (0) • On Ground (1)
CCP Switch	Control Cockpit Switch Status	Label 274 Bit 14	• Armed (0) • Active (1)
GCS Status	Ground Crash Sensor Trigger Status	Label 274 Bit 13	• Off (0) • Active (1)
Trigger Lock	ATU Trigger Lockout Switch Status	Label 201 Bit 26	• Unlocked (0) • Locked (1)
ELT-DT TX Status	TX Operational Status	Label 201 Bits 12-11	• Disabled (00) • Enabled (01)
Battery Connection	ELT-DT Battery Connection	Label 275 Bit 23	• Connected (0) • Disconnected (1)
Battery Life Remaining	ELT-DT Battery Life Remaining	Label 270 Bits 13-11	• Below 5% (000) • 5% (001) • 10% (010) • 20% (011) • 30% (100) • 40% (101) • 50% (110) • Above 60% (111)
Antenna Fault	ELT-DT Antenna Fault Status	Label 350 Bit 12	• Normal Operation (0) • Failure (1)
Accelerometer MEMS Fault	ELT-DT Mems Accelerometer Status	Label 274 Bit 13	• Normal Operation (0) • Failure (1)

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ACM Connection	Airplane Configuration Module Connection / Install Status	Label 350 Bit 20	• Connected (0) • Disconnected (1)
ACM Fault	Airplane Configuration Module Fault Status	Label 350 Bit 19	• No ACM Fault (0) • ACM Fault (1)
ATU Air / Ground State	ARINC 429 Airplane Air / Ground Status	Label 305 Bit 20	• On Ground (0) • In Air (1)
A429 Input A Trigger Status	ARINC 429 Input A Trigger Status	Label 274 Bit 11	• Off (0) • Active (1)
A429 Input B Trigger Status	ARINC 429 Input B Trigger Status	Label 274 Bit 12	• Off (0) • Active (1)
Active ARINC RX Channel	N/A	N/A	• Channel A: Active • Channel B: Active
ATU Health Status	ATU 28V Power Health Status Discrete	Label 275 Bit 24	• ATU On 28V (0) • ATU Loss of 28V (1)
Label 202 Status	ARINC 429 Label 202 Status	Label 202	• Lost • Present
Label 305 Status	ARINC 429 Label 305 Status	Label 305	• Lost • Present
ARINC 429 A In Health	ELT-DT ARINC 429 A In Health	Label 350 Bit 13	• Normal Operation (0) • Failure (1)
ARINC 429 B In Health	ELT-DT ARINC 429 B In Health	Label 350 Bit 14	• Normal Operation (0) • Failure (1)

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16.0 MAINTENANCE

1. The Maintenance page allows the RFP user to perform maintenance tests on the ELT 5000 to ensure that the beacon is operating normally.
2. There are 3 types of maintenance tests available on the RFP. They are as follows:
 - 2.1. **Self-Test:** Checks certain key parameters and verify the ELT 5000 performance.
 - 2.2. **Internal GNSS Test:** Checks the antenna connection to the ELT 5000 and verifies that a GNSS fix is established with the ELT 5000
Note: ELT-DT antenna must have line-of-sight to the GNSS constellation to receive GNSS fix.
 - 2.3. **External GNSS Test:** Checks the ARINC 429 connectivity to the ELT 5000 and verify that the ATU is communicating properly with the ELT 5000.
3. Initiate a test by selecting one of the available tests:
 - 3.1. **Self-Test**
 - 3.2. **Internal GNSS Test**
 - 3.3. **External GNSS Test**

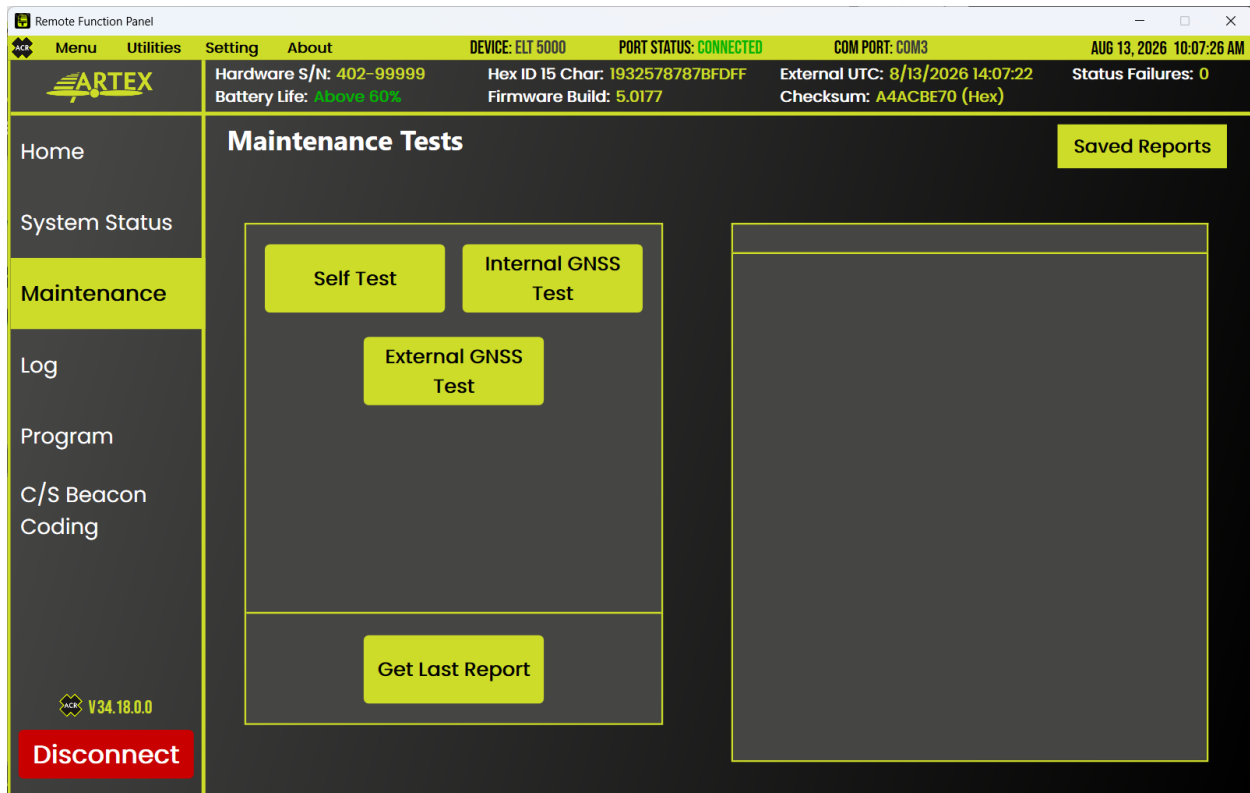


Figure 56 - RFP Maintenance Screen

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16.1 Self-Test

1. Conduct a Self-Test by selecting the Self-Test button.
2. Once the Self-Test button is selected, a pop-up window appears. This window is used to select which power source to conduct the self-test on.
 - 2.1. Selecting the Aircraft Power button conducts the Self-Test using the 28V Aircraft Power Source.
 - 2.2. Selecting the Battery Power button conducts the Self-Test using the Battery Power Source.
 - 2.3. Selecting the Cancel button does not start the Self-Test, and the RFP user may continue using the RFP application.

Note: Aircraft power is preferred for standard maintenance items at the aircraft to conserve battery power. When aircraft power is not available, battery power may be used as an alternative power source to conduct test operations.

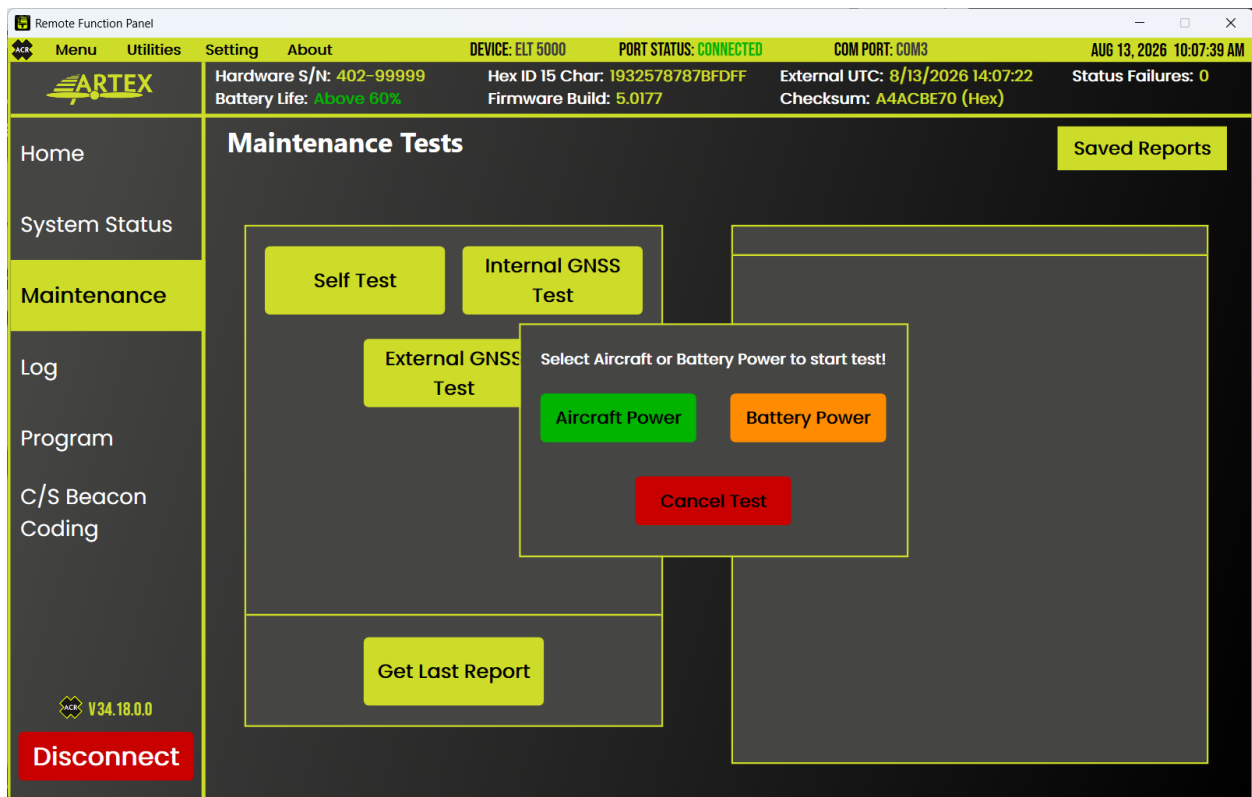


Figure 57 - RFP Maintenance Screen

3. After one of the power source buttons is selected, the Self-Test starts running.
4. Text indicating that the Self-Test has been initiated and that the test is running then appears.

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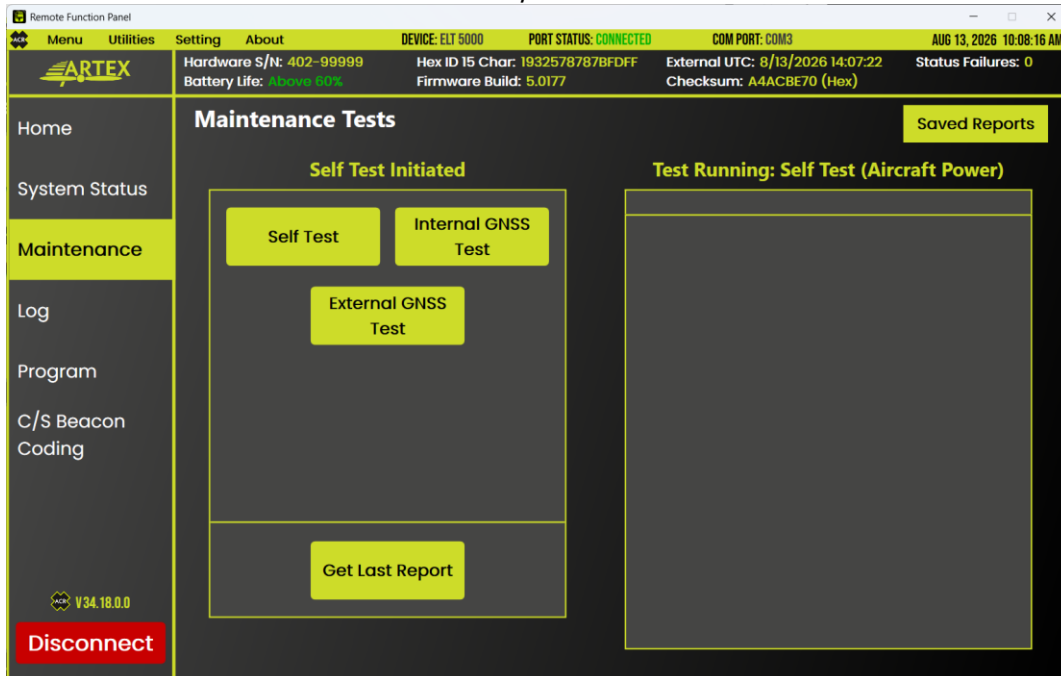


Figure 58 - RFP Self-Test

5. After the Self-Test results are received, the LED Error Cadence is shown on the ELT 5000 unit.
6. On the RFP this is illustrated by a flashing text "Running LED Error Cadence!". While this text is shown the RFP user is not able to interact with other aspects of the RFP until the Error Cadence has finished.

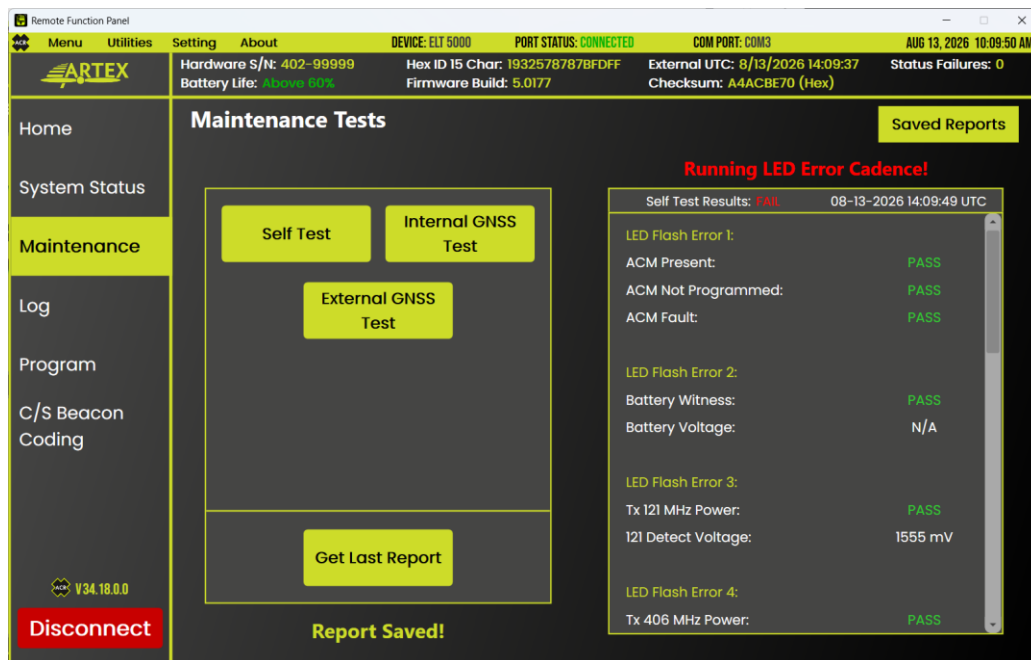


Figure 59 - RFP Self-Test

7. Once the Self-Test is finished, the Self-Test results automatically display in the information box on the right. Text indicating that the Self-Test has finished is also displayed.

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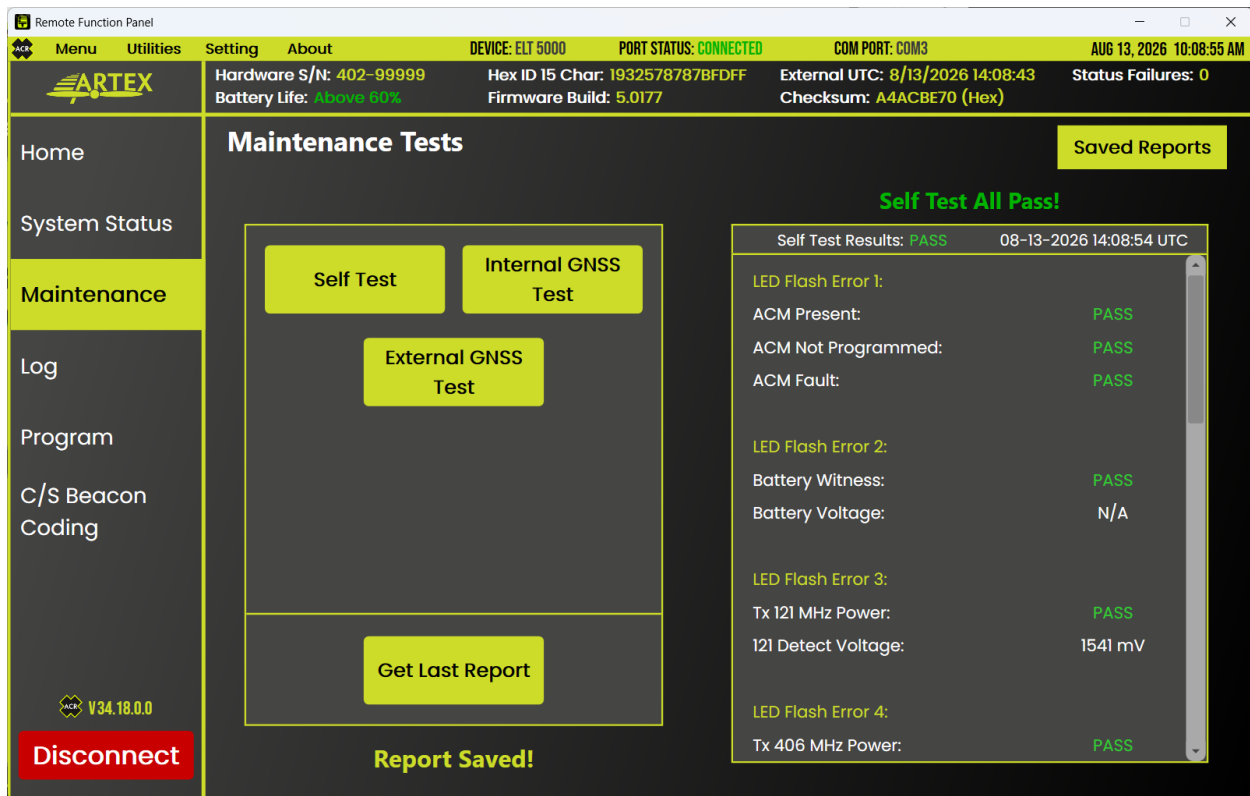


Figure 60 - RFP Self-Test

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16.2 Internal GNSS-Test

1. Conduct an Internal GNSS Test by selecting the Internal GNSS Test button.
2. Once selected, the Internal GNSS Test runs. Text indicating that the Internal GNSS Test has been initiated then appears and a timer starts counting down with an estimated completion time.

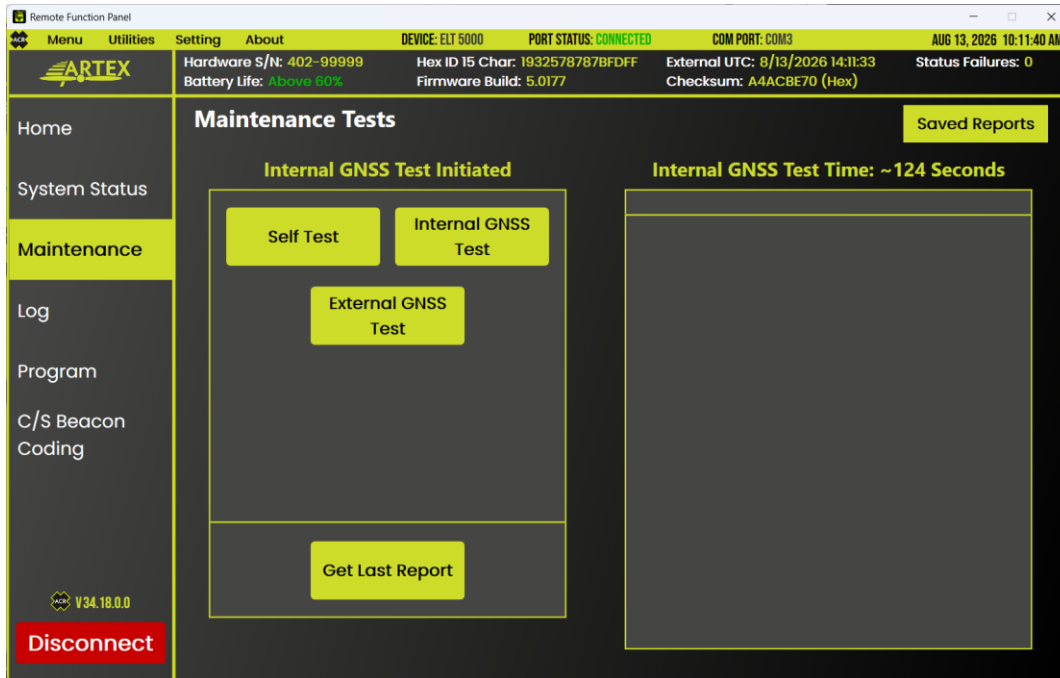


Figure 61 - RFP Internal GNSS Test

3. Once the Internal GNSS Test has been completed, a Pass or Fail Result is displayed and a report is created.

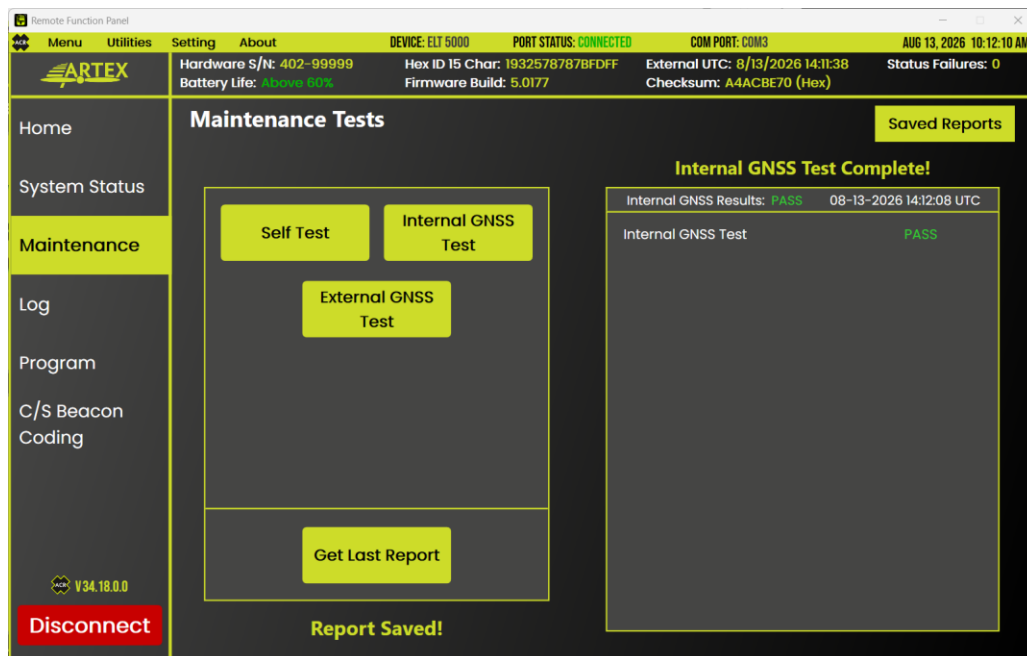


Figure 62 - RFP Internal GNSS Test

16.3 External GNSS-Test

1. Conduct an External GNSS Test by selecting the External GNSS Test button.
2. Once selected, the External GNSS Test runs. Text indicating that the External GNSS Test has been initiated appears.

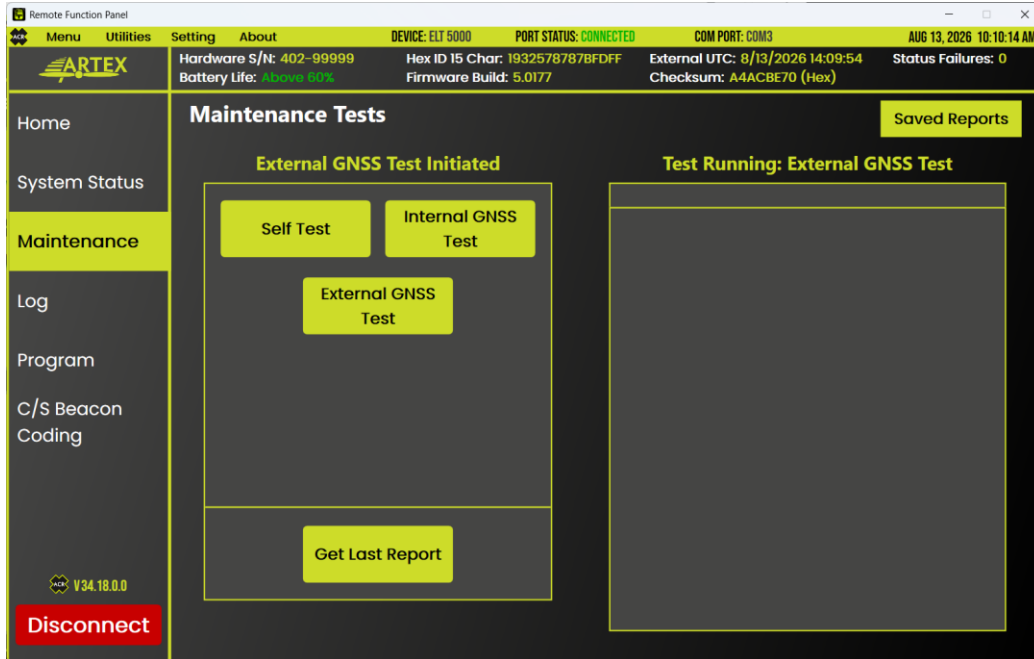


Figure 63 - RFP External GNSS Test

3. Once the External GNSS Test has been completed, a Pass or Fail Result is displayed and a report is created.

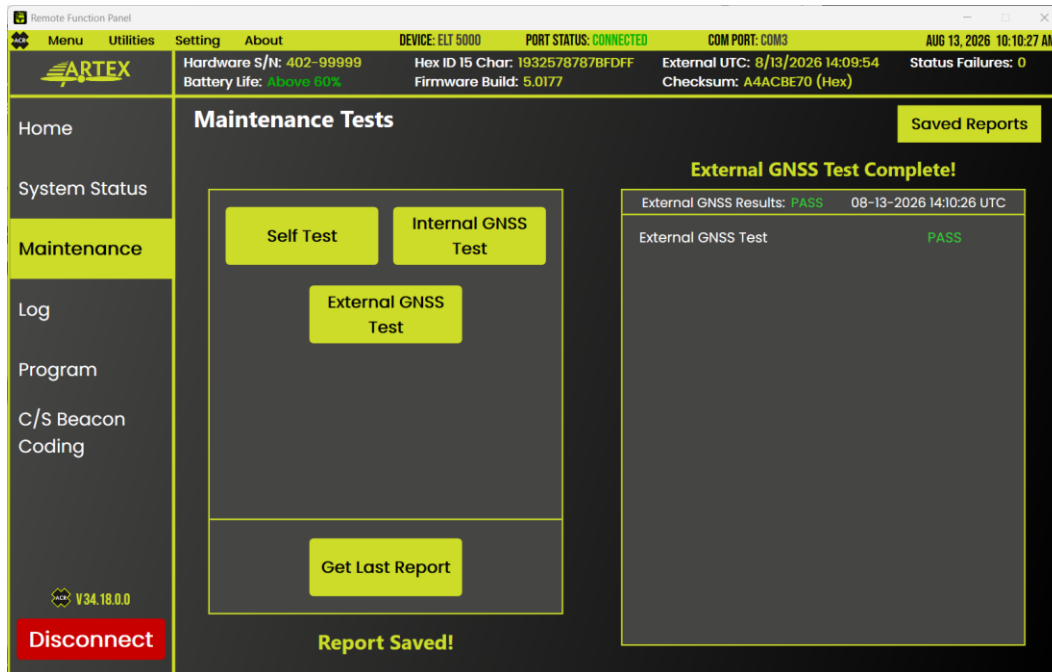


Figure 64 - RFP External GNSS Test

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16.4 Last Self-Test Report Saved on the ELT 5000

1. The RFP allows for the retrieval of the last Self-Test Report that was saved on the ELT 5000 in memory. This can be useful if the RFP user would like to see the results of the last Self-Test that was conducted on the ELT 5000 unit they are using.
2. To get the last Self-Test Report, select the Get Last Report button at the bottom of the page. This retrieves the last Self-Test Report from the ELT 5000 memory and display it on the RFP Maintenance Page.

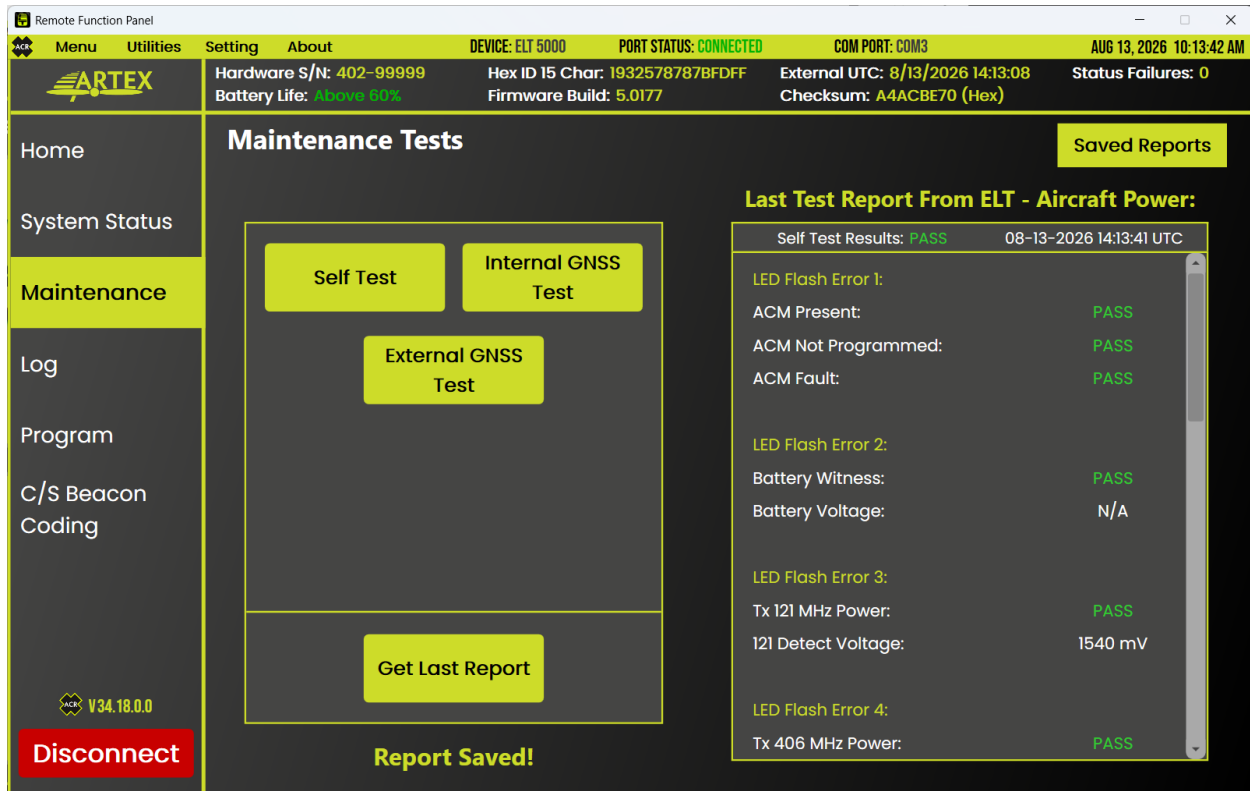


Figure 65 - RFP Retrieve Last Self-Test Report

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16.5 Saving & Viewing Test Reports

1. The Maintenance Page allows the user to automatically Save Test Reports locally on the RFP in a PDF file format.
2. To Save a Test Report, first conduct one of 3 tests (Self-Test, Internal GNSS or External GNSS Test) and wait for the test to finish running. This also applies to getting the last report button.
3. Once the chosen test has finished, the current Test Report that is displayed on the RFP is automatically saved to the RFP. A message then shows that the report has been saved.

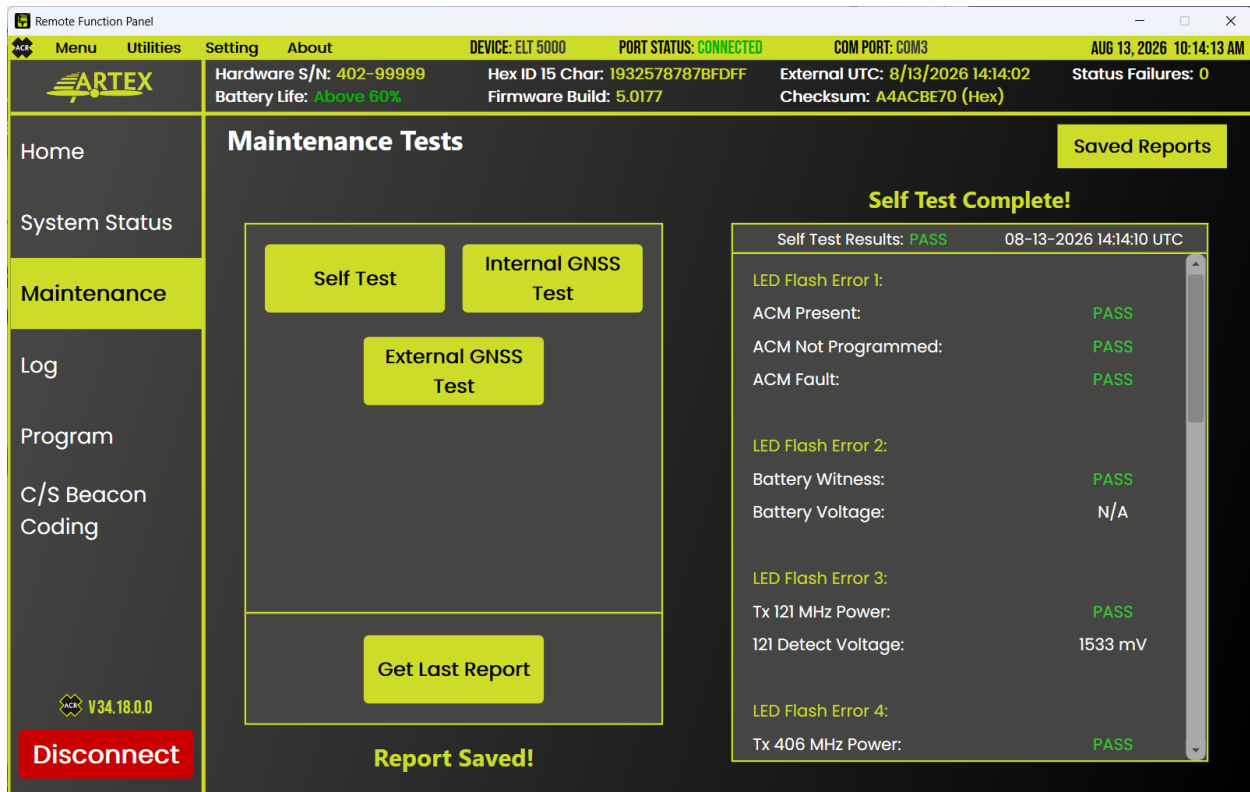


Figure 66 - RFP Maintenance Screen

4. To view all currently Saved Test Reports, select the Saved Reports Tab button located at the top right of the Maintenance Page. This then displays a new page.
5. Reports are ordered by the dates of each report with the most recent report always at the top of the list.
6. The Saved ELT-DT Test Reports Tab shows the following information:
 - **Test Number:** The list order of Test Reports ordered from most recent to oldest.
 - **Test Type:** The type of test that was conducted.
 - **SW P/N:** The Software Part Number of the ELT 5000 firmware of the unit that the test was conducted on.

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- **HW S/N:** The Hardware Serial Number of the ELT 5000 unit the test was conducted on.
- **Test Date:** The date that a test was conducted/saved on.
- **Test Pass/Fail:** The overall result of the test report. Every test case passed = PASS. If one or more test cases fail = FAIL.
- **Open Report:** Used to open a saved report.
- **Select Test Type:** Used to switch which type of reports to view. (Self-Test or GNSS Test).

The screenshot shows the 'Remote Function Panel' interface for the ELT 5000. The top status bar displays device information: Hardware S/N: 402-99999, Hex ID 15 Char: 1932578787BFDFF, External UTC: 8/13/2026 14:14:32, Status Failures: 0, Battery Life: Above 80%, Firmware Build: 5.0177, and Checksum: A4ACBE70 (Hex). The left sidebar contains navigation options: Home, System Status, Maintenance (highlighted), Log, Program, C/S Beacon Coding, and a Disconnect button. The main area is titled 'Saved ELT-DT Test Reports' and includes a 'Conduct Tests' button and a 'Select Test Type' dropdown set to 'Self-Test Reports'. A table lists seven saved reports with columns for Report #, Test Type, HW S/N, Test Date, Result, and Reports (with a blue link to open each report).

Report #	Test Type	HW S/N	Test Date	Result	Reports
1	Self Test - RFP (Com)	402-99999	08-13-2026 14:14:10 UTC	PASS	Report 1
2	Self Test - ELT (Com)	402-99999	08-13-2026 14:13:41 UTC	PASS	Report 2
3	Self Test - RFP (Com)	402-99999	08-13-2026 14:13:26 UTC	PASS	Report 3
4	Self Test - RFP (Com)	402-99999	08-13-2026 14:13:03 UTC	FAIL	Report 4
5	Self Test - RFP (Com)	402-99999	08-13-2026 14:09:49 UTC	FAIL	Report 5
6	Self Test - RFP (Com)	402-99999	08-13-2026 14:08:54 UTC	PASS	Report 6
7	Self Test - RFP (Com)	402-99999	08-13-2026 14:08:23 UTC	PASS	Report 7

Figure 67 - RFP Maintenance Screen

7. To view a Saved Report, select the corresponding Report # (Highlighted in blue) under the Open Report column. This opens the test report PDF for that test.
8. The first page of the Self-Test report shows information about the ELT 5000 and the pass/fail result of the Self-Test that was conducted.

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Self Test Report

1. **Device:** ELT 5000
2. **Date/Time:** 08-13-2026 14:14:10 UTC
3. **Test:** Self Test - RFP
4. **Test Power Source:** Aircraft Power
5. **Cospas Sarsat Message:**
FFFED08C992BC3C3DFEFFFBD000056B5C31
6. **Hex ID 15 Characters:** 1932578787BFDF
7. **ACM CS Message:**
FFFED08C992BC3C3DFEFFFBD000056B5C31

Self-Test Summary

- | | |
|------------------------|-------------|
| 1. Test Suite Results: | 9/9 |
| 2. Suites Passed: | 9 |
| 3. Suites Failed: | 0 |
| 4. Overall Pass/Fail: | PASS |

Please check itemized results for failures and solutions.

Hardware Info		Software Info	
1. Hardware S/N:	402-99999	1. RFP Version:	34.18.0.0
2. Hardware P/N:	A3-06-3249	2. Firmware P/N:	K3-01-0157
3. Battery S/N:	1234567890124568	3. Firmware Rev:	Rev. L
4. Battery EXP:	05/2028	4. Firmware Build:	5.0177
5. Battery Life:	Above 60%		

Current NVM Settings		Default NVM Settings	
1. Enable ACM:	Enabled	1. Enable ACM:	Enabled
2. 121.5 MHz Homer:	Enabled	2. 121.5 MHz Homer:	Enabled
3. Buzzer In Air:	Disabled	3. Buzzer In Air:	Disabled
Differences are highlighted in Red			

Current ACM Settings		Default ACM Settings	
1. Enable ACM:	Enabled	1. Enable ACM:	Enabled
2. 121.5 MHz Homer:	Enabled	2. 121.5 MHz Homer:	Enabled
3. Buzzer In Air:	Disabled	3. Buzzer In Air:	Disabled
Differences are highlighted in Red			

Figure 68 - Self Test Report Document Page 1

9. The next two pages of the Self-Test report show the actual tests that were conducted and the pass/fail result of each cadence.
10. When a test suite fails, the corrective actions column will populate with the recommended action to troubleshoot the failure. Each numbered item in the corrective actions column corresponds directly to the results column numbered item in each row.

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Suite	Test	Operation and Failure Description	Results	Corrective Actions
1	ACM Configuration	Verifies Aircraft Configuration Module.	1. ACM Present = PASS 2. ACM Not Programmed = PASS 3. ACM Fault = PASS	1. No Action Required. 2. No Action Required. 3. No Action Required.
2	Battery Witness	Verifies that battery life is still able to maintain operational and certification requirements.	1. Battery Witness = PASS 2. Battery Voltage = N/A	1. No Action Required.
3	121.5 MHz Transmitter	- Verifies 121.5MHz is operational and transmitting. - Note: When 121.5MHz Test transmission occurs, the Green LED will light.	1. Tx 121 MHz Power = PASS 2. 121 Detect Voltage = 1546 mV	1. No Action Required.
4	406 MHz Transmitter	- Verifies 406MHz is Output Power is >35dBm and Frequency Lock detect is working. - Note: When 406MHz Test transmission occurs, the Green LED will light.	1. Tx 406 MHz Power = PASS 2. 406 Detect Voltage = 2233 mV 3. 406 Reflected Voltage = 795.33 mV 4. PLL Lock = 1550 mV 5. PLL Lock Ripple = 0.87 mV 6. Battery Voltage Burst = N/A	1. No Action Required.
5	Antenna VSWR	Verifies antenna connection has a VSWR of <3:1.	1. Antenna Load VSWR = PASS	1. No Action Required.
6	GNSS System	Verifies Internal or External GNSS receiver is communicating with processor.	1. Nav Data Present = PASS	1. No Action Required.
7	Automatic Trigger Interfaces Ch A and Ch B.	Verifies interfaces are working correctly by receiving ARINC Label 202 over the channels and that the Trigger Lockout Switch is not active.	1. ARINC L202 Present = PASS 2. Trigger Lock = PASS	1. No Action Required. 2. No Action Required.
8	Crash Sensor	Verifies Crash sensor is operational.	1. MEMS Gyro Crash Sensor = PASS	1. No Action Required.

Figure 69 - Self Test Report Document Page 2

Suite	Test	Operation and Failure Description	Results	Corrective Actions
9	Support Tests	Additional ELT Test Checks.	1. ARINC Loopback Test = PASS 2. ATU Health = PASS 3. Battery Connection = PASS 4. Battery Serial Number = PASS 5. Code Checksum = PASS 6. Detect 406 Carrier Lock = PASS 7. NVM Checksum = PASS 8. Temperature = 33 °C	1. No Action Required. 2. No Action Required. 3. No Action Required. 4. No Action Required. 5. No Action Required. 6. No Action Required. 7. No Action Required. 8. No Action Required.
N/A	No Cadence Tests	Additional ELT Test Checks with No Cadence.	1. Air/Ground Check = PASS 2. Aircraft Power 28V = PASS	1. No Action Required. 2. No Action Required.

Figure 70 - Self Test Report Document Page 3

- To go back to the **Test Page**, select the **Conduct Test Tab** button in the top right of the Maintenance Page.

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17.0 LOGS

1. The **Log Page** allows the RFP user to view important information about the current state of the ELT 5000 while functional. This includes Regular & Critical events.
2. The Event Logs Page currently has the following features:
 - **Event log list:** Displays a list of all Event Logs that have been captured on the ELT 5000. Note: There is a maximum of 1024 event logs stored available for download on the ELT 5000.
 - **Event log details:** Displays the content of an Event Log.
 - **Total Events:** A counter for how many Event Logs are currently stored on the ELT 5000.
 - **Events Loaded:** A counter for how many Event Logs in total have been retrieved from the ELT 5000.
 - **Sort Events:** A filter option to only display a specific Event Log Type.
 - **Event Sub-Types:** A filter option to only display a specific Event Log Sub-Type.
 - **Get logs:** Button for retrieving all the Event Logs from the ELT 5000. Note: Event logs still reside on the ELT after the logs' retrieval ELT 5000.
 - **Save logs:** Button for saving all the retrieved Event Logs locally on the RFP in a PDF file format.
 - **Critical Logs:** Shows a new page for viewing Critical Logs. This page has the same feature as the Event Logs Page.
 - **Log Viewing:** Shows a new page for viewing all the stored Regular & Critical Event Log Reports currently stored on the RFP.

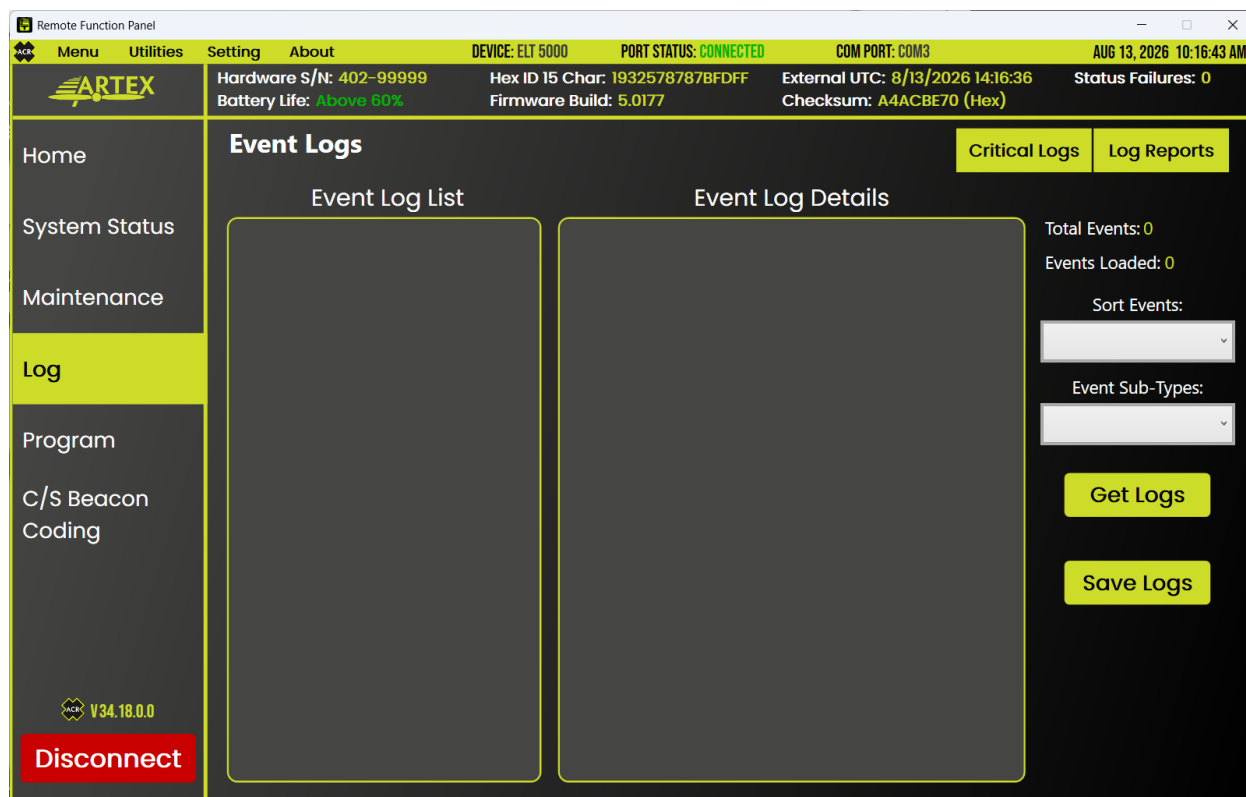


Figure 71 - RFP Regular Logs

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17.1 Regular Event Logs

1. The Event Logs Tab provides information about the Regular Logs.
2. To get all the Regular Event Logs from the ELT 5000, select the Get Logs button. A pop-up window then appears showing the status of downloading the Event Logs from the ELT 5000. Note that Regular Event Logs do not contain Critical Event Logs.
3. The RFP user is allowed to cancel this downloading process at any point and the RFP then saves every Regular Event Log that has been downloaded so far.
4. While downloading, the Events Loaded counter increases to display how many Regular Event Logs have been downloaded.

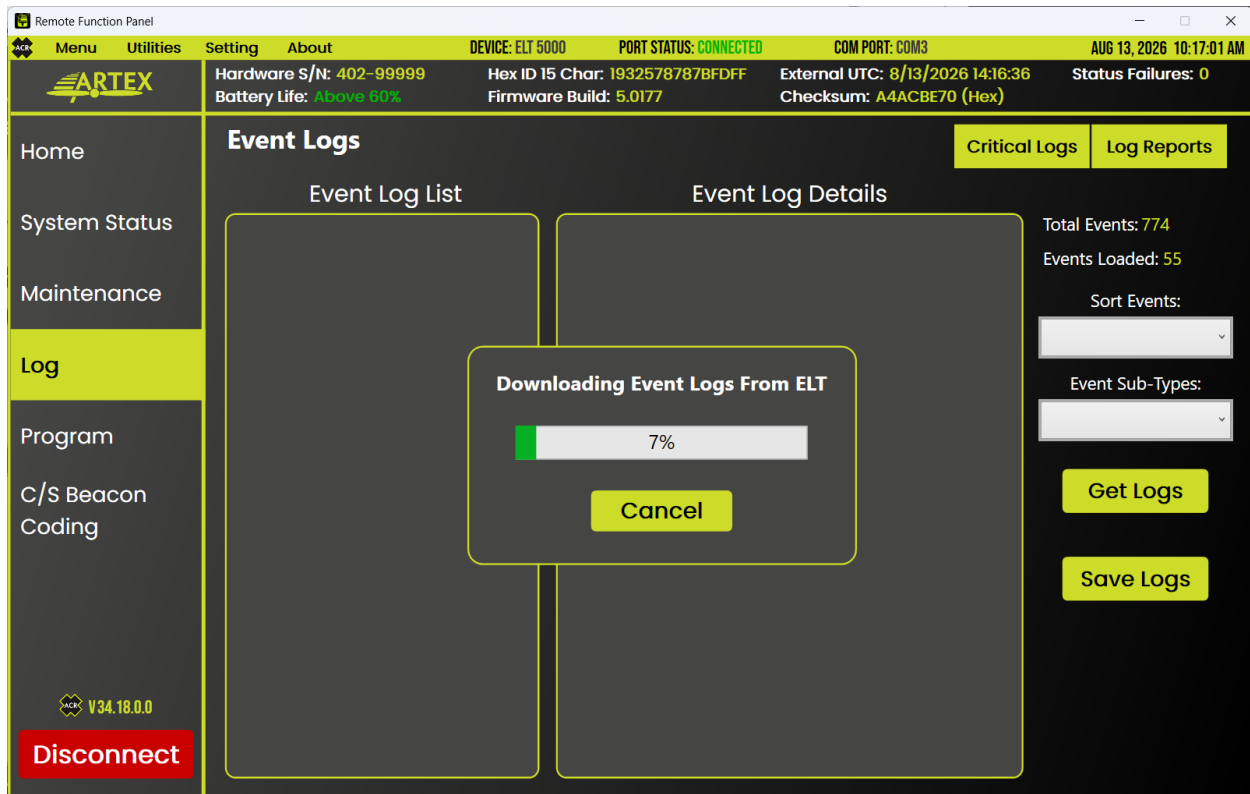


Figure 72 - RFP Regular Logs

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- Once all Regular Event Logs have been downloaded from the ELT 5000, the progress bar shows 100% and the downloaded Regular Event Logs show up in the Event Log List information box. Select close to dismiss the download pop-up window.

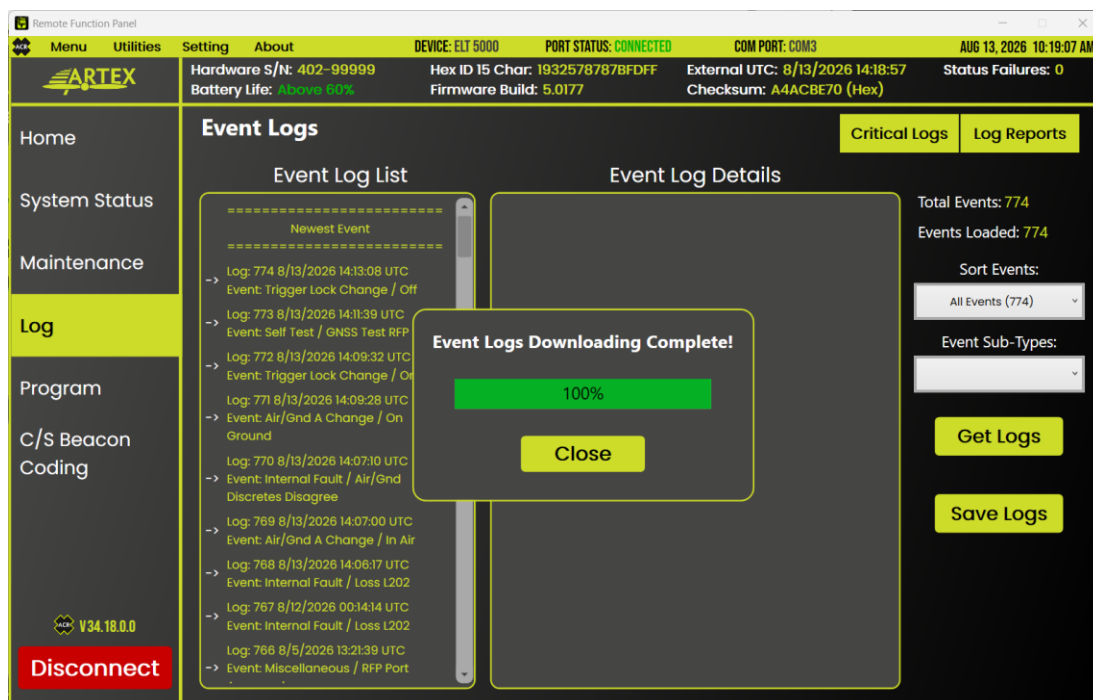


Figure 73 - RFP Regular Logs

- The Event Log List information box displays all Event Logs that have been downloaded from the ELT 5000.

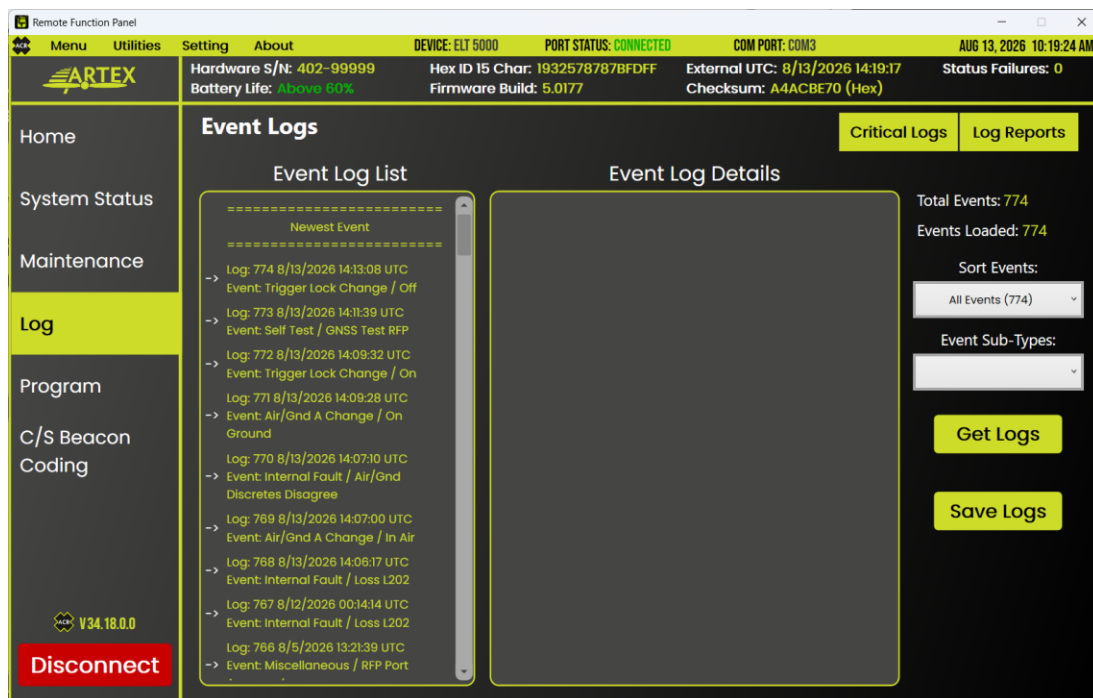


Figure 74 - RFP Log Screen

- Clicking on an Event Log Entry opens that Event Log under the Event Log Details information box.

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Remote Function Panel

Menu Utilities Setting About DEVICE: ELT 5000 PORT STATUS: CONNECTED COM PORT: COM3 AUG 13, 2026 10:19:38 AM

Hardware S/N: 402-99999 Hex ID 15 Char: 1932578787BFDFF External UTC: 8/13/2026 14:19:17 Status Failures: 0
 Battery Life: Above 60% Firmware Build: 5.0177 Checksum: A4ACBE70 (Hex)

Event Logs Critical Logs Log Reports

Event Log List

=====
 Newest Event
 =====

- Log: 774 8/13/2026 14:13:08 UTC
 Event: Trigger Lock Change / Off
- Log: 773 8/13/2026 14:11:39 UTC
 Event: Self Test / GNSS Test RFP
- Log: 772 8/13/2026 14:09:32 UTC
 Event: Trigger Lock Change / On
- Log: 771 8/13/2026 14:09:28 UTC
 Event: Air/Gnd A Change / On Ground
- Log: 770 8/13/2026 14:07:10 UTC
 Event: Internal Fault / Air/Gnd Discretes Disagree
- Log: 769 8/13/2026 14:07:00 UTC
 Event: Air/Gnd A Change / In Air
- Log: 768 8/13/2026 14:06:17 UTC
 Event: Internal Fault / Loss L202
- Log: 767 8/12/2026 00:14:14 UTC
 Event: Internal Fault / Loss L202
- Log: 766 8/5/2026 13:21:39 UTC
 Event: Miscellaneous / RFP Port

Event Log Details

Log Entry: 774
 Event: Trigger Lock Change
 Type: Off

UTC Timestamp: 8/13/2026 14:13:08 UTC
 RunTime: 9 day 17 hr 30 min 8 sec

Latitude: 26.0518°
 Longitude: -80.1691°
 Altitude: -1000 Meters

=====
 Label 201
 =====

Raw Data: 0x00000081
 Tx Operational Status (Bit 11-12): Disabled
 Cmd Input Status (Bit 13-15): No Trigger Active
 Cancellation Input Received (Bit 16): No Cancel Received
 Distress Trigger Origin (Bit 17-20): No Distress Trigger
 ATU Lockout (Bit 26): Normal

Total Events: 774
 Events Loaded: 774

Sort Events:
 All Events (774)

Event Sub-Types:

Get Logs **Save Logs**

Disconnect

V34.18.0.0

Figure 75 - RFP Regular Logs

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17.2 Critical Event Logs

1. To view the Critical Event Logs, select the Critical Logs Tab at the top right of the screen. This changes the current view to the Critical Logs page.
2. This page has the same capabilities that the Regular Event Logs Page does except that this page downloads only the Critical Event Logs from the ELT 5000 and shows them for viewing.
3. Select the Get Logs Button to download all of the Critical Event Logs from the ELT 5000. A popup window is displayed showing download progress.

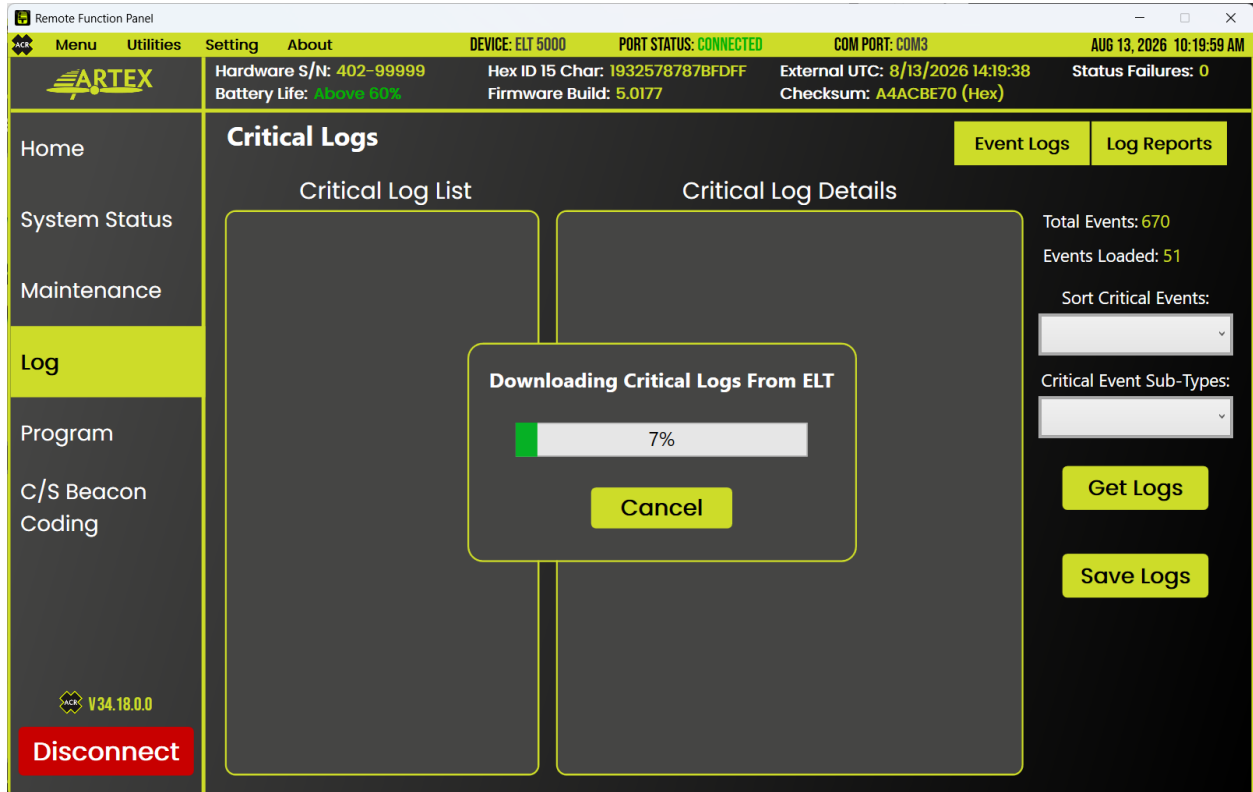


Figure 76 - RFP Critical Logs

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- Once the downloading has finished the Critical Log List text box populates with the downloaded Critical Logs.

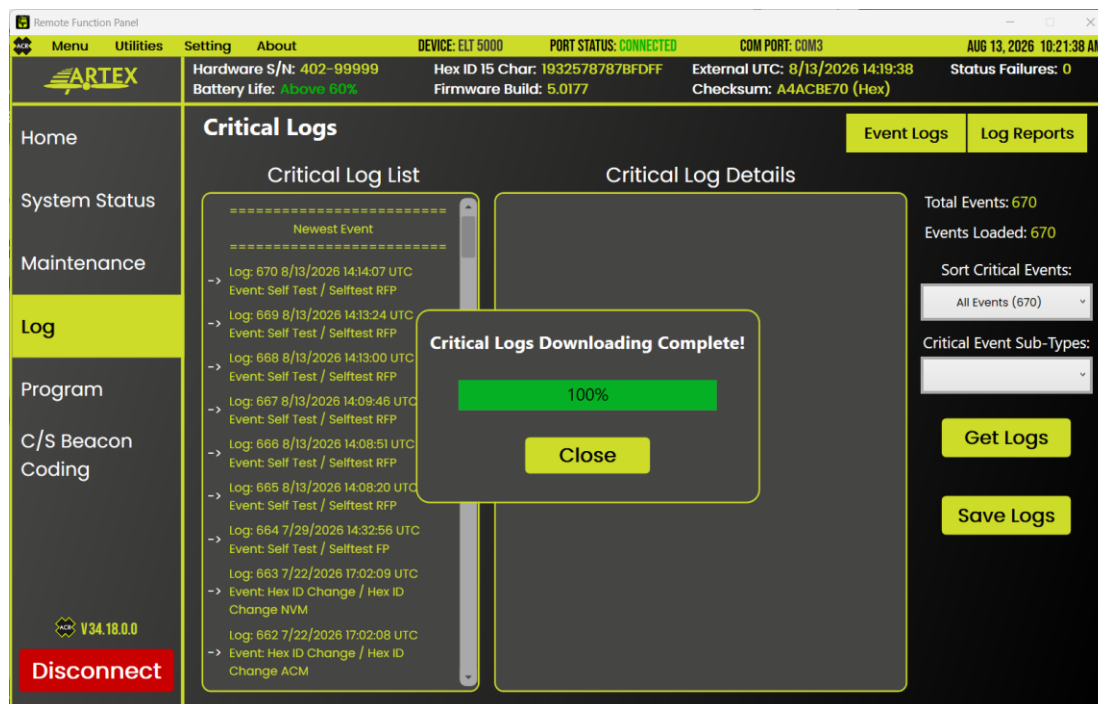


Figure 77 - RFP Critical Logs

- To view a Critical Log, select the Critical Logs List box. The corresponding Critical Log is displayed in the Critical Log Details box.

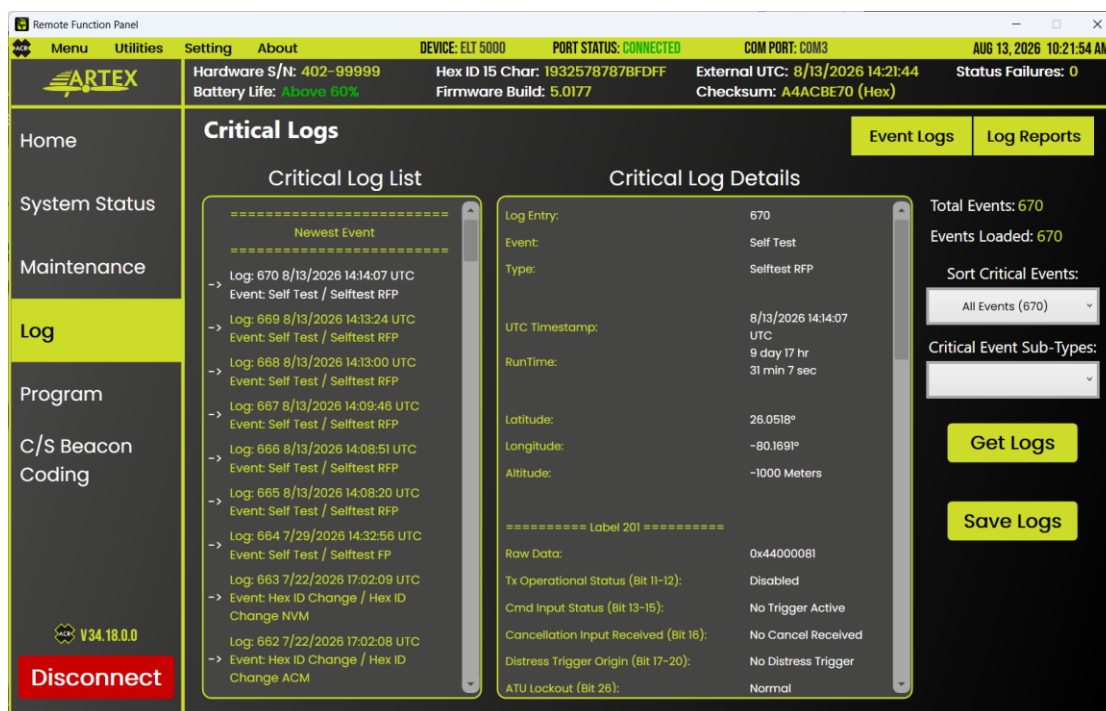


Figure 78 - RFP Critical Logs

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17.3 Event Log Filter

1. The Event Log Filter offers a way to view a specific type of event that was logged on the ELT 5000. This is available for both Regular & Critical Event Logs.
2. To use this feature, select the Sorted Events Dropdown box.
3. This displays a list of event types. Each event type have a number next to the name that shows how many of a given event type were downloaded.
4. Selecting one of the event types update the Event Log List box with the selected event type logs.

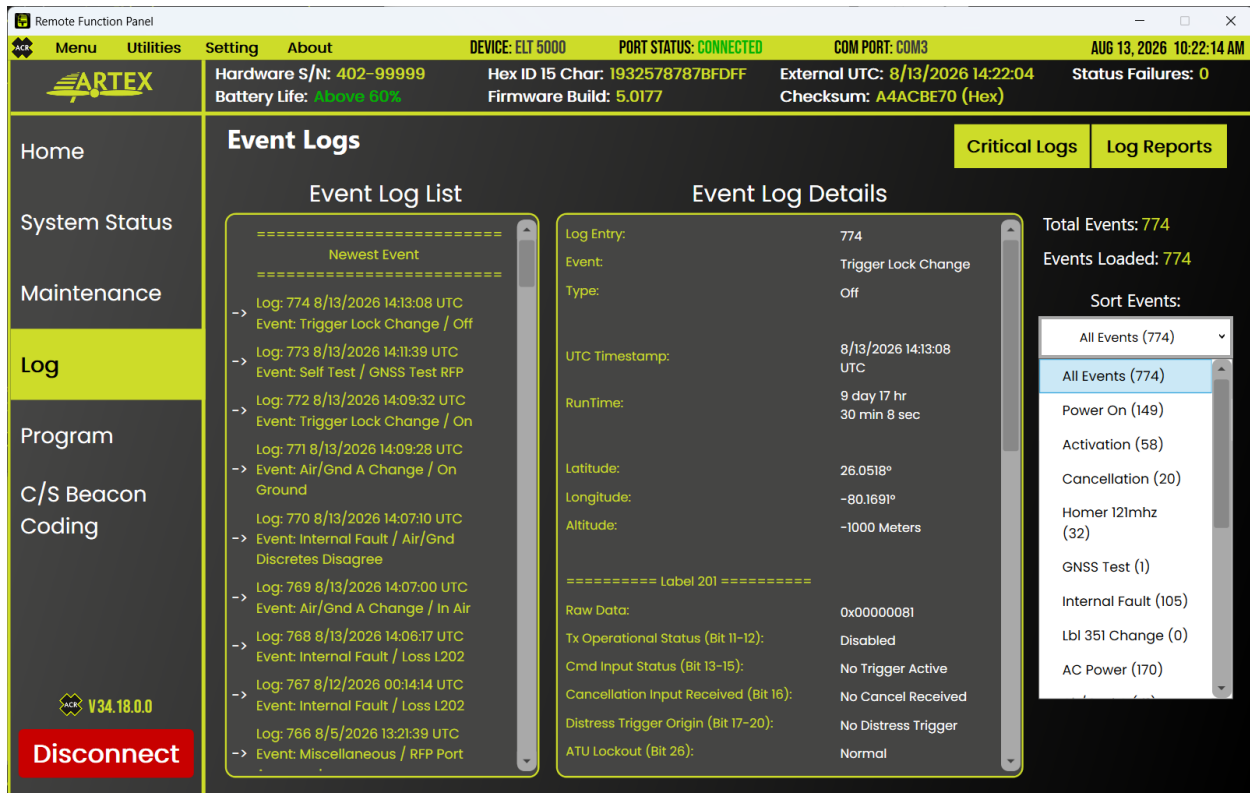


Figure 79 - RFP Logs Sorting By Event Type

5. The **Event Types** that are available to sort for **Regular Events** are the following:
 - All Events
 - Power On
 - Activation
 - Cancellation
 - Homer 121.5 MHz
 - GNSS-Test
 - Internal Fault
 - UTC Set
 - Label 351 Change
 - AC power
 - Air/Ground A
 - Air/Ground B
 - Trigger Lock
 - Battery Status
 - Antenna Status
 - ATU Health
 - Internal GPS
 - External GPS
 - Miscellaneous

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6. The Event Types that are available to sort for Critical Events are the following:

- All Events
- Self-Test
- Internal Fault
- Hex ID Changed
- Battery Status

7. Once a Specific Event Type has been selected, the Event Sub-Type box becomes available.

8. The Event Sub-Type box allows for the sorting of a specific Event Type by an Event Sub-Type.

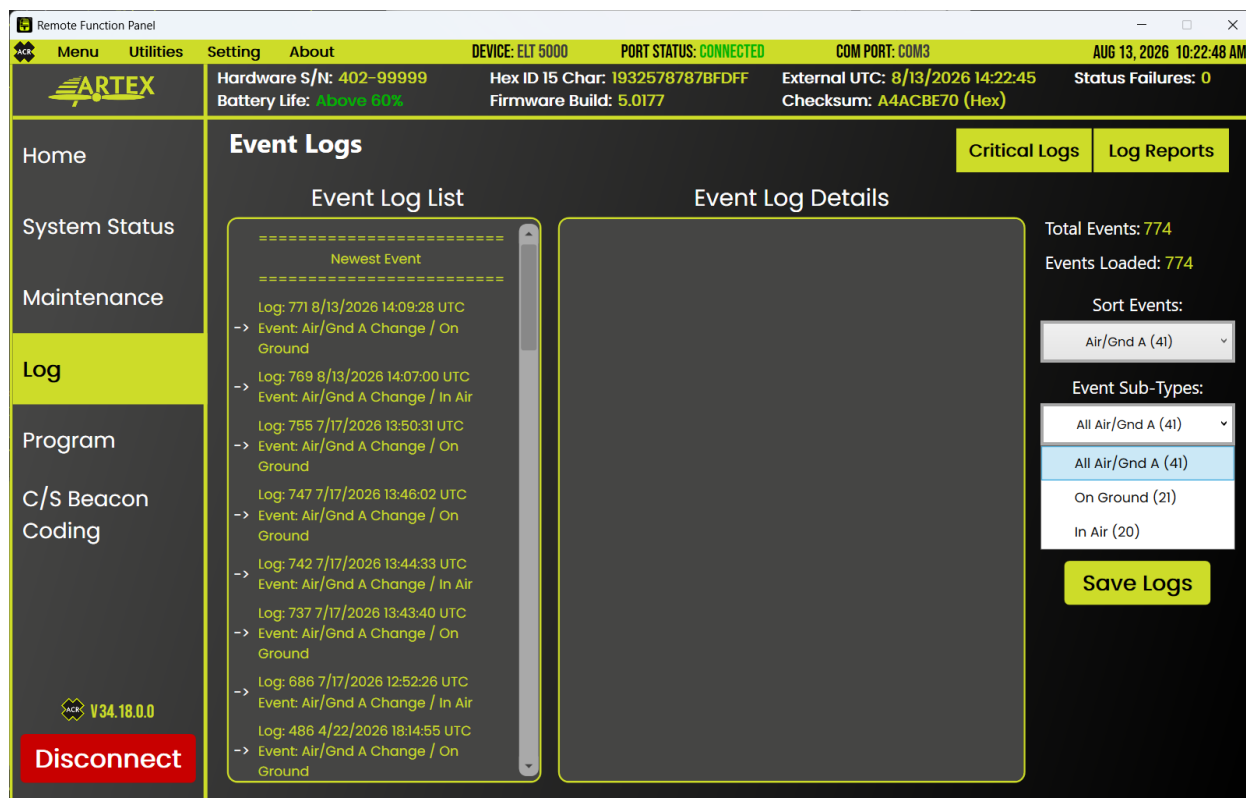


Figure 80 - RFP Logs Sorting By Sub-Type

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17.4 Saving Event Logs

1. To Save all Regular or Critical Logs Downloaded, select the Save Log button on the corresponding page. This saves all Regular or Critical Logs that were downloaded in PDF & CSV files locally on the RFP.
2. To View all saved Event Log files, select the Log Reports tab at the top right of the page.

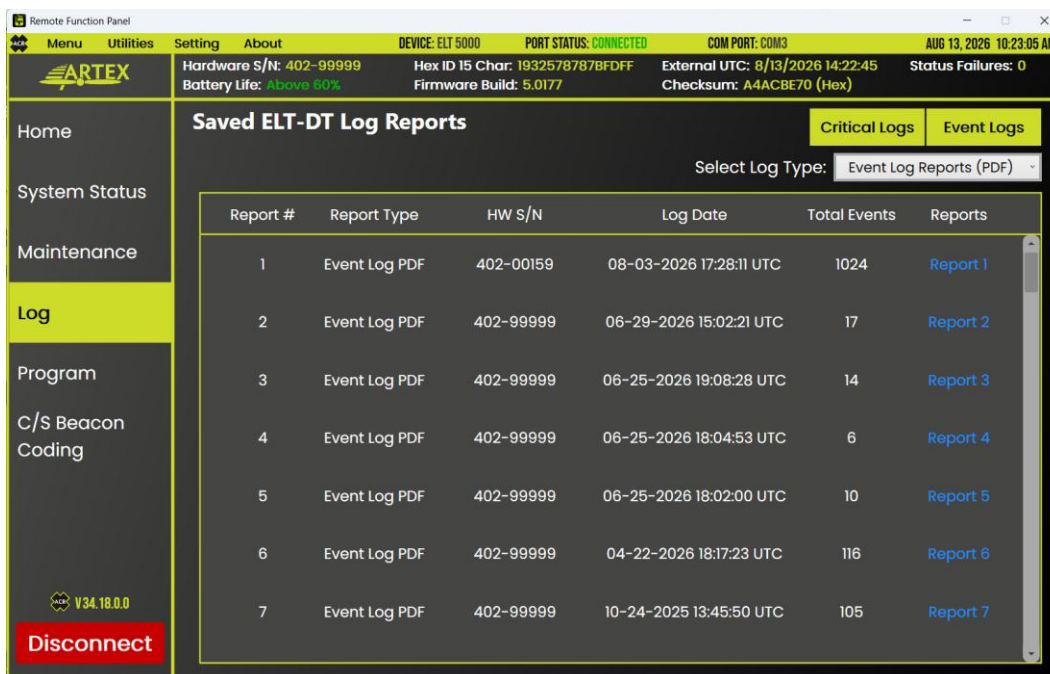


Figure 81 - RFP Saved Log Reports

3. To view the Saved Critical Logs Reports, select the Select Log Type box in the top right corner of the page. This brings up a filter option dropdown.

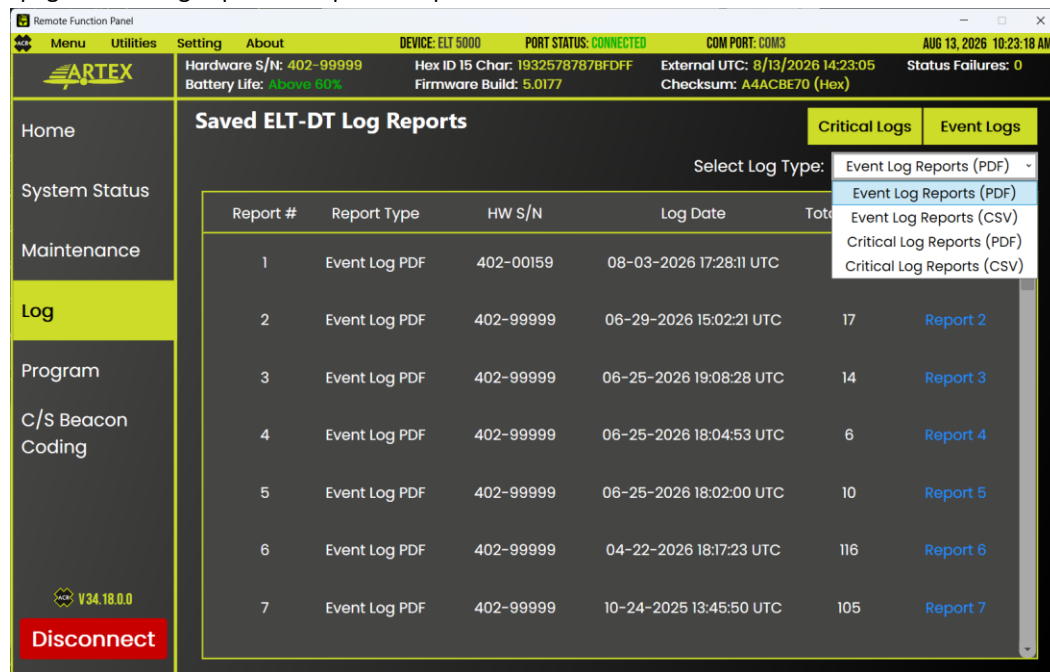


Figure 82 - RFP Saved Log Reports

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18.0 PROGRAM

1. The Program page allows the user to configure ELT and/or ACM options.
2. When navigating to the Program Page, the RFP user is prompted to enter a password. After the correct password is entered, the main page that is loaded is the ELT Memory Options/Configuration Page.
3. The default password for access to the RFP is "scienceofsurvival". To change this password please see section 21.1.

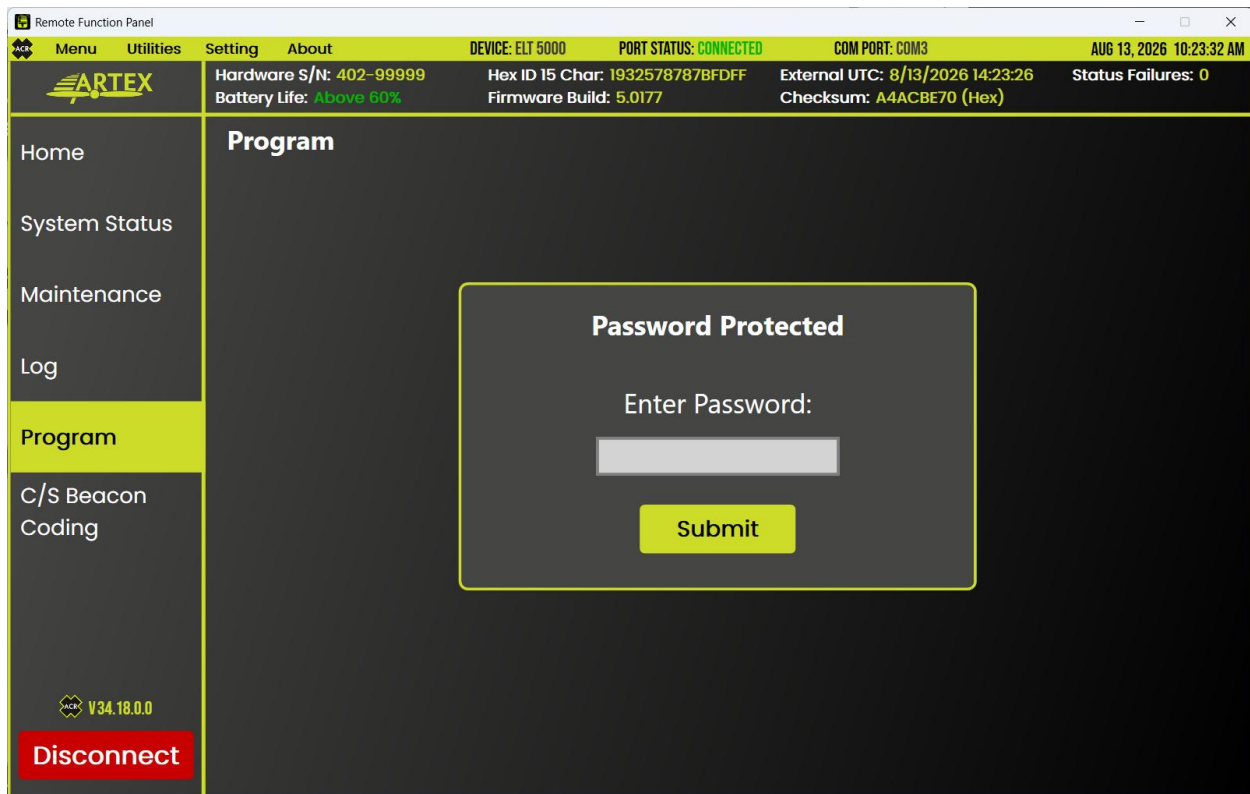


Figure 83 - RFP Program Screen

4. The RFP User can switch between two tabs on the Program Page. ELT Memory Config or ACM Config.
 - 4.1. On the ELT Memory Options page, these options allow the RFP User to read and program certain options for the ELT Memory.
 - 4.2. On the ACM Config page, these options allow the RFP User to read and program certain options for the ACM.
5. When the RFP User selects the Program button, the selected options are set and a message appears to show that the corresponding memory was programmed.

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6. The following options are available for the ELT Memory Configuration Tab:

- **Buzzer Overall Status:** Turn on or off the ELT-DT buzzer.
- **Enable Buzzer in Air:** Enable the ability to use the buzzer while the aircraft is in Air.
- **Read Button:** Gets the ELT Memory Config data and checks the corresponding boxes.
- **Program Button:** Sets the current selection of ELT config options to the ELT Memory.
- **Current ELT Memory Settings:** Displays the status of the current ELT Memory Options that are programmed into the ELT 5000 memory & the current POS Hex ID programmed.

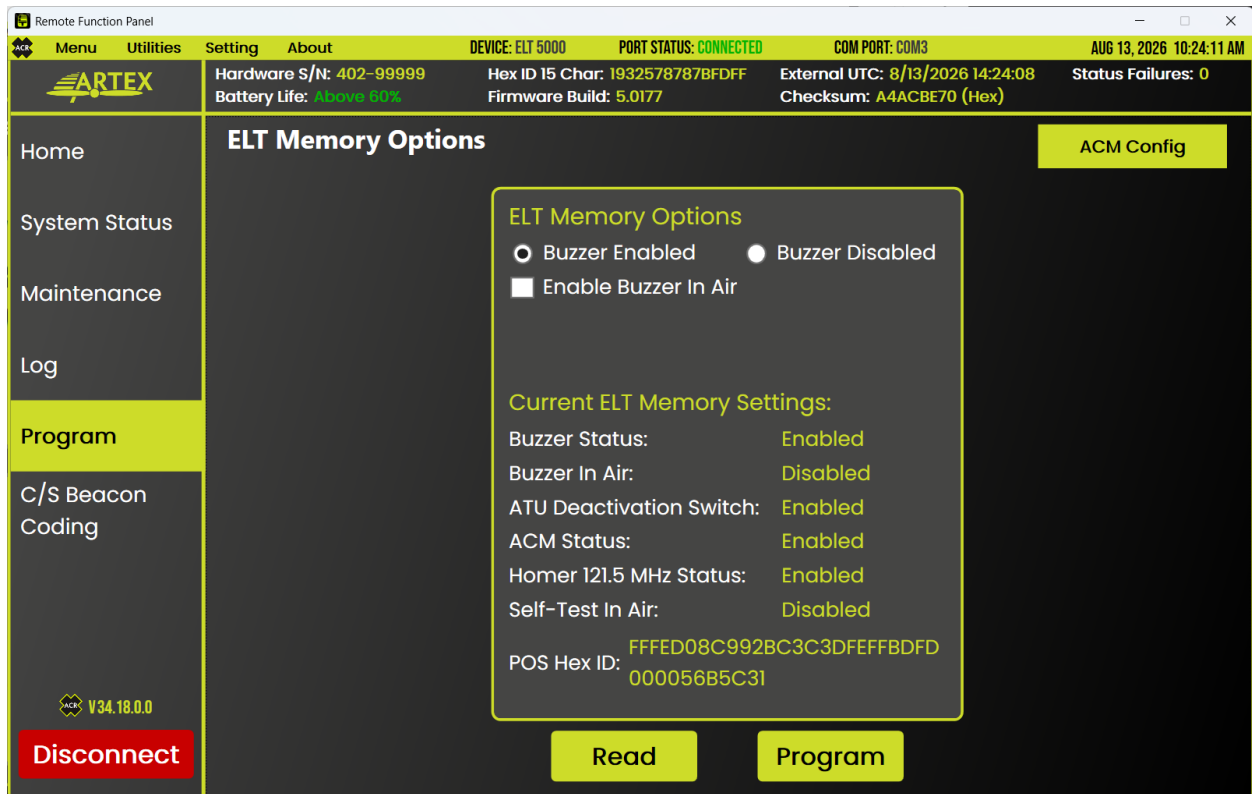


Figure 84 - RFP Program Screen

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7. The following options are available for the ACM Configuration Tab:

- **Enable Buzzer in Air:** Enable the ability to use the buzzer while the aircraft is in Air.
- **Read Button:** Gets the ACM Config data and checks the corresponding boxes.
- **Program Button:** Sets the current selection of ACM config options to the ACM.
- **Current ACM Memory Settings:** Displays the status of the current ACM Memory Options that are programmed into the ACM memory, the current ACM Hex ID & ACM Serial Number programmed.

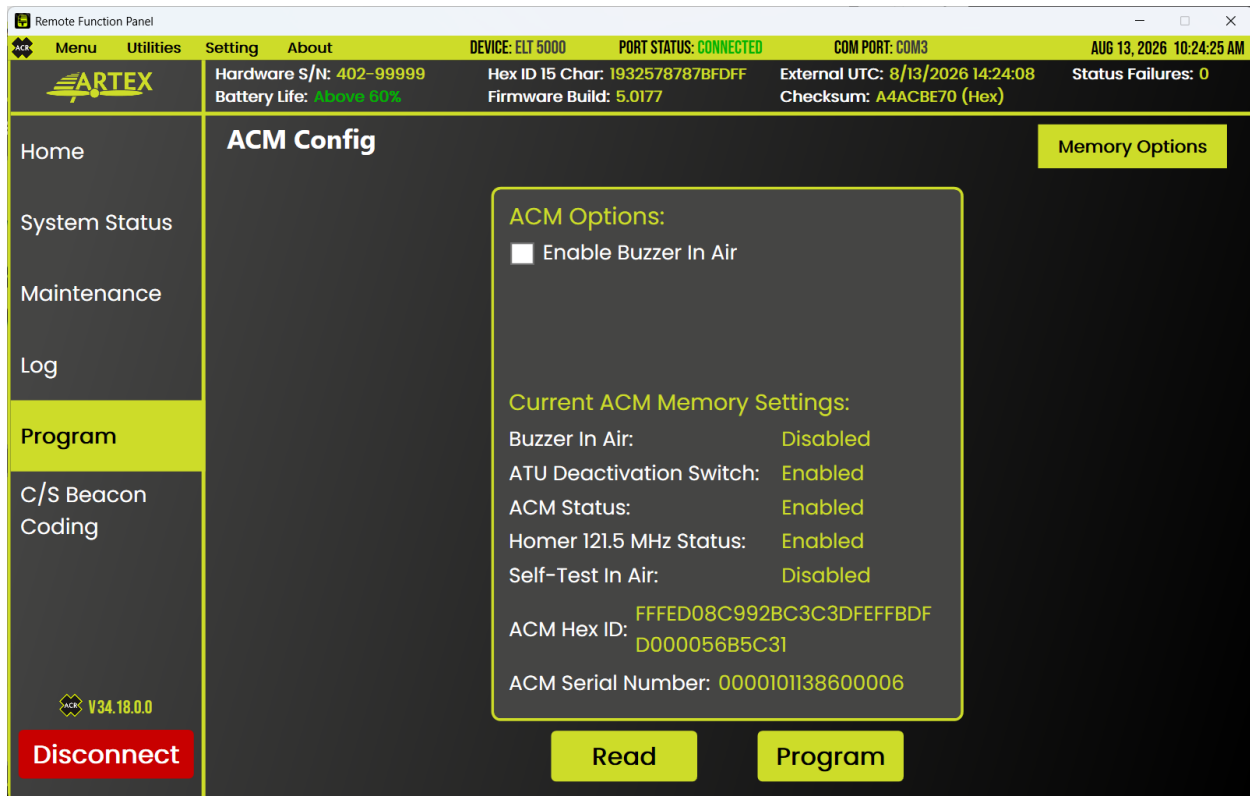


Figure 85 - RFP Program Screen

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19.0C/S BEACON CODING

1. The C/S Beacon Coding Page provides the user the ability to read and/or program the ELT and ACM HEX ID and offers a useful tool for Cospas-Sarsat Hex ID decoding straight from the RFP. Note: This page is password protected with the RFP programming password.
2. The Cospas Sarsat Beacon Coding tool allows the RFP user to configure their own unique Cospas Sarsat Hex ID to be used on the ELT 5000.
3. This tool programs the ELT 5000 memory and/or ACM with the configured C/S message when the Set Hex ID button is selected. Please note that a properly installed ACM is required to use this tool for programming the ACM Hex ID.
4. There are three options available for programming when using this tool. Program ONLY the ELT 5000 by selecting the Only ELT-DT Msg option, program ONLY the ACM by selecting the Only ACM Msg option or program both the ELT 5000 & ACM by selecting the Both ELT-DT/ACM Msg option.
5. On the right side of the page, there is information displayed showing what is currently programmed on the ELT 5000 in memory and in the ACM. The following is shown:
 - **Device:** The type of device connected to the RFP.
 - **Current ELT-DT C/S Msg:** Displays the Cospas Sarsat message that is currently programmed in the ELT-DT memory.
 - **Current ELT-DT Protocol:** Displays the current protocol of the currently set Cospas Sarsat message in the ELT 5000 memory.
 - **Current ACM C/S Msg:** Displays the Cospas Sarsat message that is currently programmed in the ACM.
 - **Current ACM Protocol:** Displays the current protocol of the currently set Cospas Sarsat message in the ACM.
 - **C/S Msg Check:** States whether the Cospas Sarsat messages in the ELT 5000 memory and ACM are matching IDs.
6. The following is available on the Cospas Sarsat Beacon Coding tool:
 - **Protocol Type:** Set the device target type. Only the DT protocol is available.
 - **DT Protocol:** Set the ELT Identity Type.
 - **Aircraft-24-bit with 3LD**
 - **Aircraft 24-bit (No 3LD)**
 - **Aircraft Operator**
 - **Serial/TAC Number**
 - **DT Test Location**
 - **Country Code:** Set the country code from a list of countries.

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- The RFP user can select a DT Protocol, and the corresponding textboxes enable text to be entered.
- The box at the bottom of the screen containing a Hex ID automatically updates based on the information that is entered.

The screenshot shows the 'Cospas Sarsat Beacon Coding' interface within the 'Remote Function Panel'. The top status bar displays: 'Menu Utilities Setting About', 'DEVICE: ELT 5000', 'PORT STATUS: CONNECTED', 'COM PORT: COM3', and 'AUG 13, 2026 10:24:37 AM'. Below this, a summary row shows: 'Hardware S/N: 402-99999', 'Hex ID 15 Char: 1932578787BFDFF', 'External UTC: 8/13/2026 14:24:28', and 'Status Failures: 0'. The main area is titled 'Cospas Sarsat Beacon Coding' and includes tabs for 'C/S Reports' and 'C/S Decoder'. The configuration section on the left has fields for 'Location Protocol' (set to 'ELT-DT'), 'Protocol Code' (set to 'Aircraft 24-Bit - 3LD'), 'A/C 24 bit Addr (Hex)' (set to 'AF0F0F'), '3LD' (set to 'YYY'), 'Serial Number', 'Tac Number', 'Country Code' (set to 'USA (366)'), and 'Frame Sync' (set to 'Normal'). The 'C/S Msg' field contains 'FFFE2F96E92BC3C3DFFFC94DAC0056B5C31'. Below this, the '15 Hex' field shows '2DD2578787BFDFF'. At the bottom, there are radio buttons for 'Only ELTDT Msg', 'Only ACM Msg', and 'Both ELTDT/ACM Msg', along with 'Set Hex ID' and 'Save Report' buttons. The right panel displays 'Device: ELT 5000', 'Current ELTDT POS Msg: FFFED08C992BC3C3DFFFBDFD 000056B5C31', 'Current ELTDT Protocol: Aircraft 24-Bit Address - 3LD: (YYY / AF0F0F Hex)', 'Current ACM C/S Msg: FFFED08C992BC3C3DFFFBDFD 000056B5C31', 'Current ACM Protocol: Aircraft 24-Bit Address - 3LD: (YYY / AF0F0F Hex)', and a 'C/S Msg Check: Current ELTDT & ACM C/S Messages Match!' status.

Figure 86 - Beacon Coding Configurator

- When finished with configuration, select the Set Hex ID button at the bottom of the screen. This programs the ELT 5000 and/or ACM with the created C/S Message.
- After the Set Hex ID button has been selected, the information on the right panel updates with the new Hex ID information.
- The Cospas Sarsat Beacon Coding tool can save a Protocol Report that provides information about the currently programmed C/S Message on the ELT 5000/ACM. This can be done by pressing the Save Report button.
- To change to the RFP Decoder page, select on the C/S Decoder tab at the top right of the page. The window then changes to the RFP Decoder.
- The RFP Decoder allows the RFP user to either enter their own 36-character Cospas-Sarsat Hex ID, 15-character Cospas-Sarsat Hex ID or to get the current programmed Cospas-Sarsat Message that is on the ELT 5000.
- This beacon decoder is created for second generation beacons of 36 hex characters and is defined by Cospas-Sarsat T.001 Issue 4 – Rev 6.

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15. The following is available on the Decoder Page:

- **Enter** a Cospas-Sarsat ID.
- **Get** the current programmed Cospas-Sarsat Message on the ELT 5000.
- **Decode** the entered Cospas-Sarsat Message.

The screenshot displays the 'Remote Function Panel' window for the ELT 5000. The top status bar shows 'DEVICE: ELT 5000', 'PORT STATUS: CONNECTED', 'COM PORT: COM3', and the date/time 'AUG 13, 2026 10:24:59 AM'. Below this, system information includes 'Hardware S/N: 402-99999', 'Battery Life: Above 60%', 'Hex ID 15 Char: 1932578787BFDFF', 'Firmware Build: 5.0177', 'External UTC: 8/13/2026 14:24:50', and 'Status Failures: 0'. The main interface is titled 'Cospas Sarsat Decoder' and features a sidebar with navigation options: Home, System Status, Maintenance, Log, Program, C/S Beacon Coding (highlighted), and a Disconnect button. The main area contains input fields for 'Enter a Cospas Sarsat ID (36 or 15 Char):' and 'Decoded Hex ID 15 Char:', along with buttons for 'Get Current C/S Msg', 'Get C/S Msg', 'Decode C/S Msg', and 'Decode Msg'. A table with four columns is present: 'Binary Range', 'Binary Content', 'Field Name', and 'Decoded Value'. The table is currently empty. A version indicator 'V34.18.0.0' and a 'Disconnect' button are at the bottom left. A footer note states '* Beacon Decoder defined by T.001 Issue 4 - Rev.6.'

Binary Range	Binary Content	Field Name	Decoded Value
--------------	----------------	------------	---------------

Figure 87 - RFP Decoder Screen

16. When the Decode Msg button is selected, the entered 36- or 15-character Cospas Sarsat ID is decoded. If the ID was a 36 character, then a 15-character Hex is decoded and displayed.

17. The output of the decoder is in the form of a table with the following columns:

- **Binary Range:** The interval range that the binary bits are within.
- **Binary Content:** The binary bit values that are within the set Binary Range.
- **Field Name:** The identifier that corresponds to the Binary Range.
- **Decoded Value:** The Field Name information values that are the result of the Binary Content.

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Remote Function Panel
— □ ×

Menu Utilities Setting About

 DEVICE: ELT 5000 PORT STATUS: CONNECTED COM PORT: COM3 AUG 13, 2026 10:25:10 AM

Hardware S/N: 402-99999
Hex ID 15 Char: 1932578787BFDFF
External UTC: 8/13/2026 14:24:50
Status Failures: 0

Battery Life: Above 80%
Firmware Build: 5.0177
Checksum: A4ACBE70 (Hex)

[Home](#)
[System Status](#)
[Maintenance](#)
[Log](#)
[Program](#)

C/S Beacon Coding

V34.18.0.0
Disconnect

Cospas Sarsat Decoder

[C/S Reports](#)
[Beacon Coding](#)

Enter a Cospas Sarsat ID
(36 or 15 Char):

FFFED08C992BC3C3DFFBDFD00056B5C31

Decoded Hex
ID 15 Char:

1932578787BFDFF

Get Current C/S Msg:

Get C/S Msg

Decode C/S Msg:

Decode Msg

Binary Range	Binary Content	Field Name	Decoded Value
1-15	111111111111111	Bit-synchronization pattern consisting of 1's shall occupy the first 15-bit positions	True
16-24	011010000	Frame Synchronization Pattern	Test protocol message coded for non-operational use
25	1	Format Flag	Long Message
26	0	Protocol Flag	Standard location protocols or national location protocol
27-36	0011001001	Country Code	Albania - 201

* Beacon Decoder defined by T.001 Issue 4 - Rev.6.

Figure 88 - RFP Decoder Screen

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20.0 RFP DISCONNECTION

1. After an RFP user is finished with their ELT 5000 maintenance task, select the Disconnect button at the top of the screen. A pop-up window is displayed, then select Disconnect.

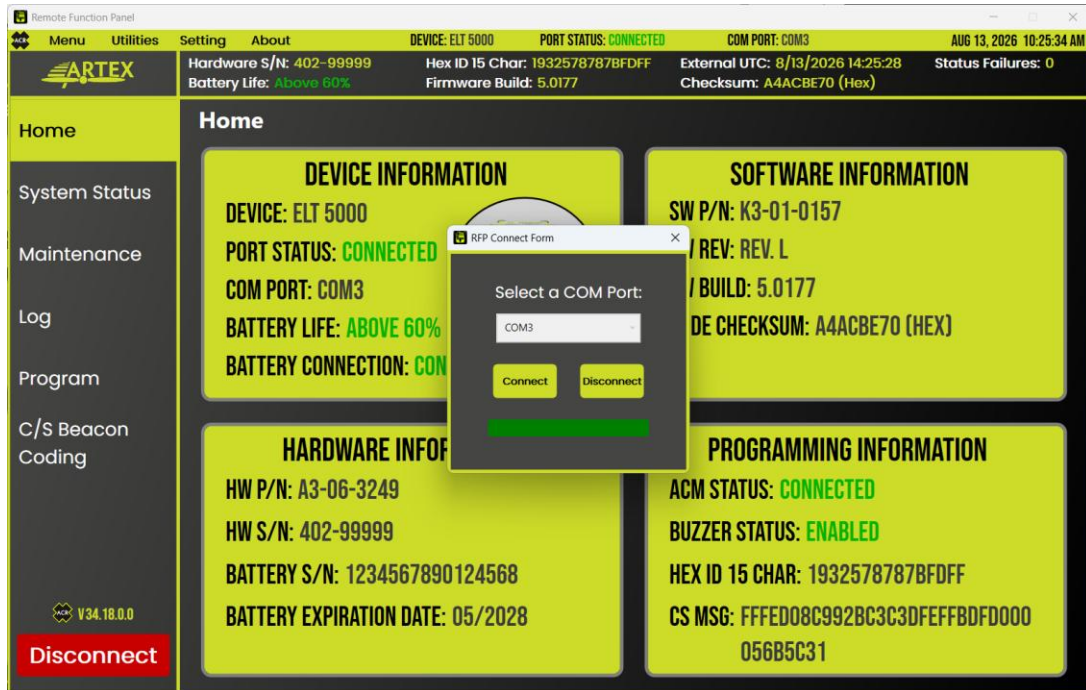


Figure 89 - RFP ELT 5000 Disconnect

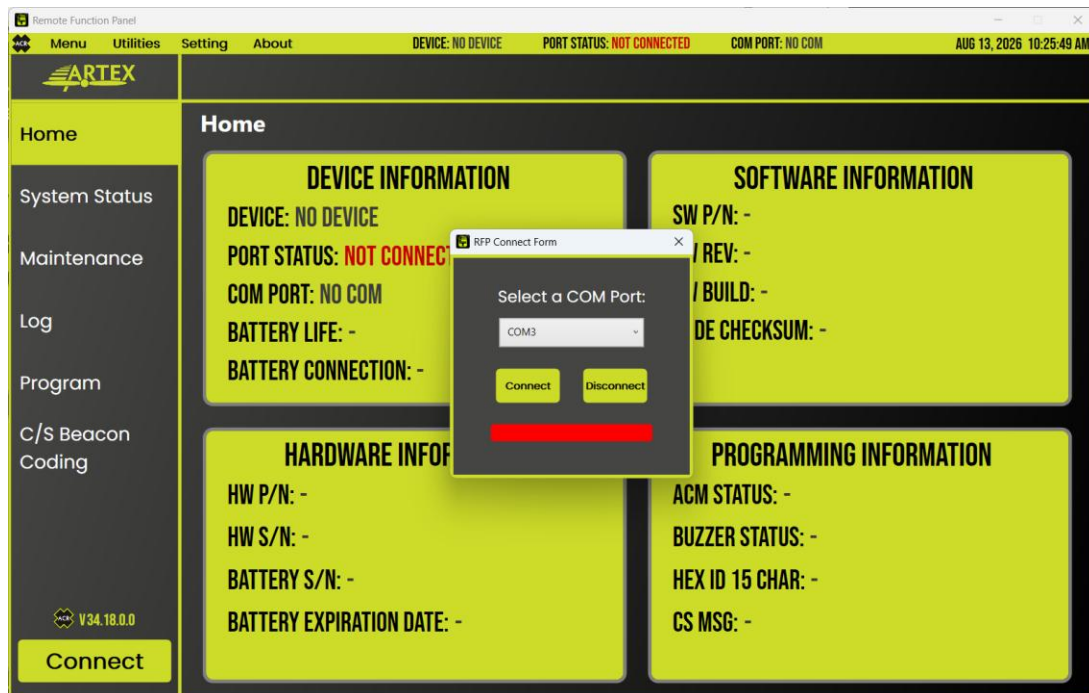


Figure 96 - RFP ELT 5000 Disconnect

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21.0 RFP UTILITIES

21.1 PASSWORD CONFIGURATOR

The RFP allows the user to change the password for the Program and C/S Beacon Coding Pages. This system requires the ACR Master Password to be entered first then the Programming Password will be available to change. The ACR Master Password will be distributed to designated customer representatives, who will be responsible for safeguarding both the ACR Master Password and their individually set Programming Password.

1. To access the Password Configurator, select Setting -> Password Manager tab in the top menu bar.

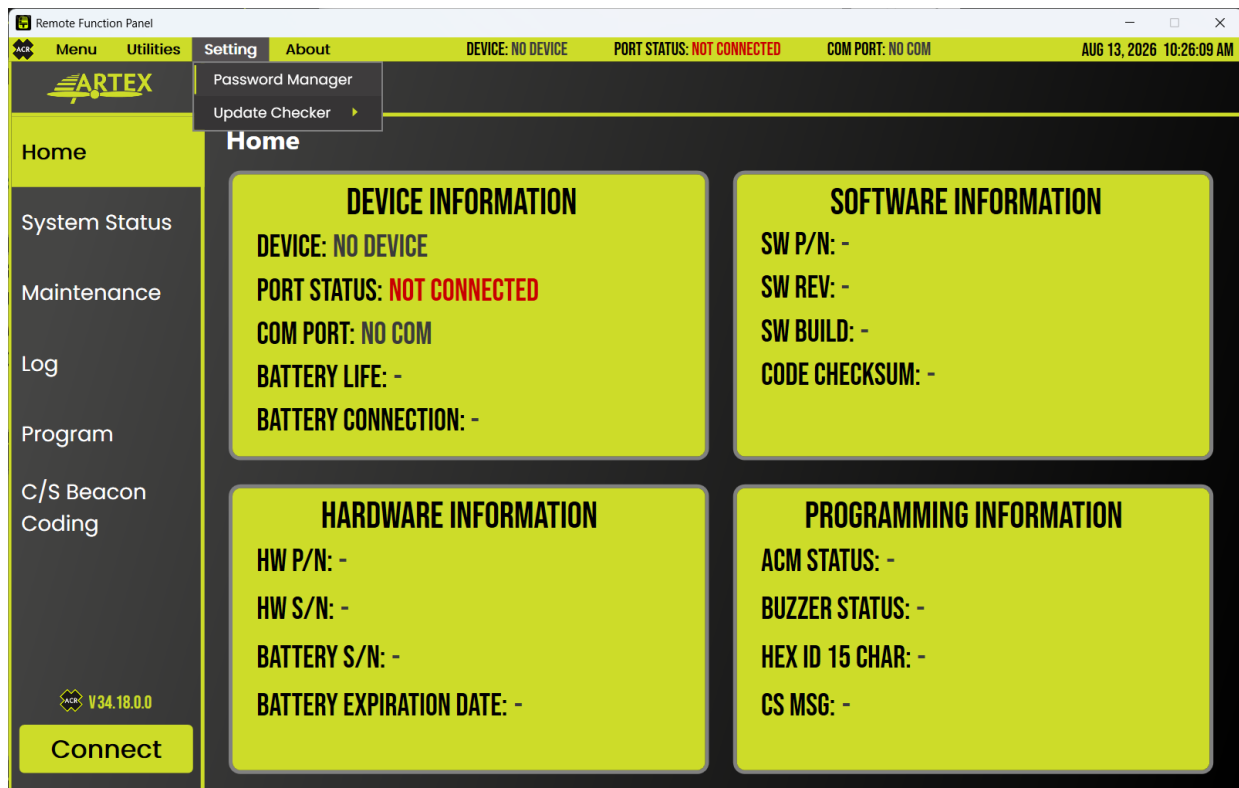


Figure 90 - RFP Password Manager

2. Selecting the Password Manager option will open a new window where the ACR Master Password will need to be entered for access.
3. If the ACR Master Password is entered incorrectly, a popup message will appear stating that it was incorrect.

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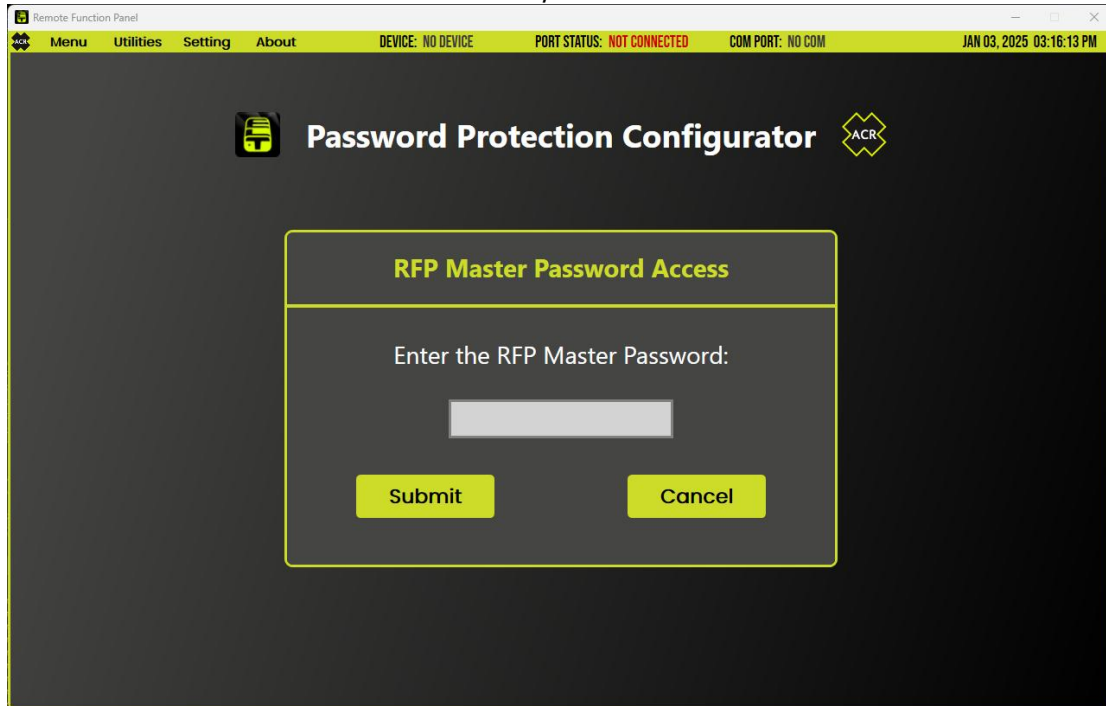


Figure 91 - RFP Password Manager

4. Once the Master Password has been entered correctly, the Programming Password can now be changed.
5. The Programming Password must only contain letters (Upper or Lowercase), numbers (0-9) or the special characters (! # \$ & ?). The length of the Programming Password must be between 8-18 characters.

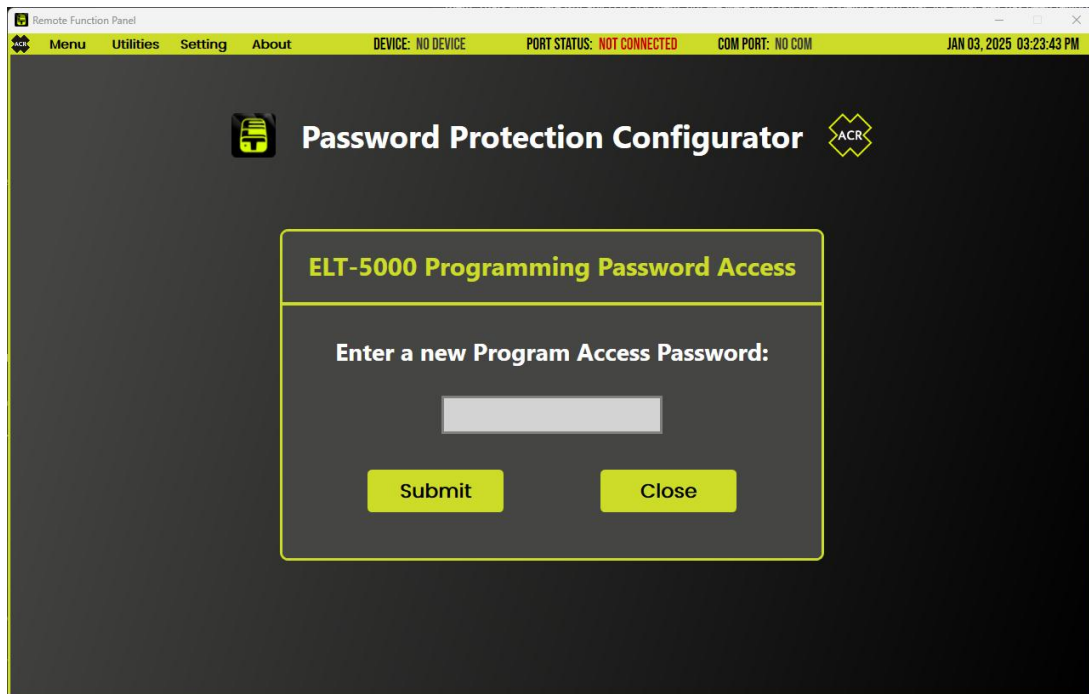


Figure 92 - RFP Password Manager

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21.2 PROGRAMMING PASSWORD SESSION TIMEOUT

1. The RFP includes a session timeout feature that locks programming access 30 minutes after the user enters the Programming Password on either the Program or C/S Beacon Coding pages. This prevents unauthorized access if the RFP has been left unattended.
2. Once the Programming Password has been successfully entered on either the Program or C/S Beacon Coding pages a 30-minute session timer will begin counting down in the background.
3. After 25 minutes have elapsed, a session warning popup message will appear asking if the user would like to refresh the session timer for another 30 minutes. This allows an authorized user to continue using the RFP without the need to re-enter the Programming Password.

If the user does not select the refresh button before the 30-minute session expires, programming access will be locked, requiring the Programming Password to be re-entered.

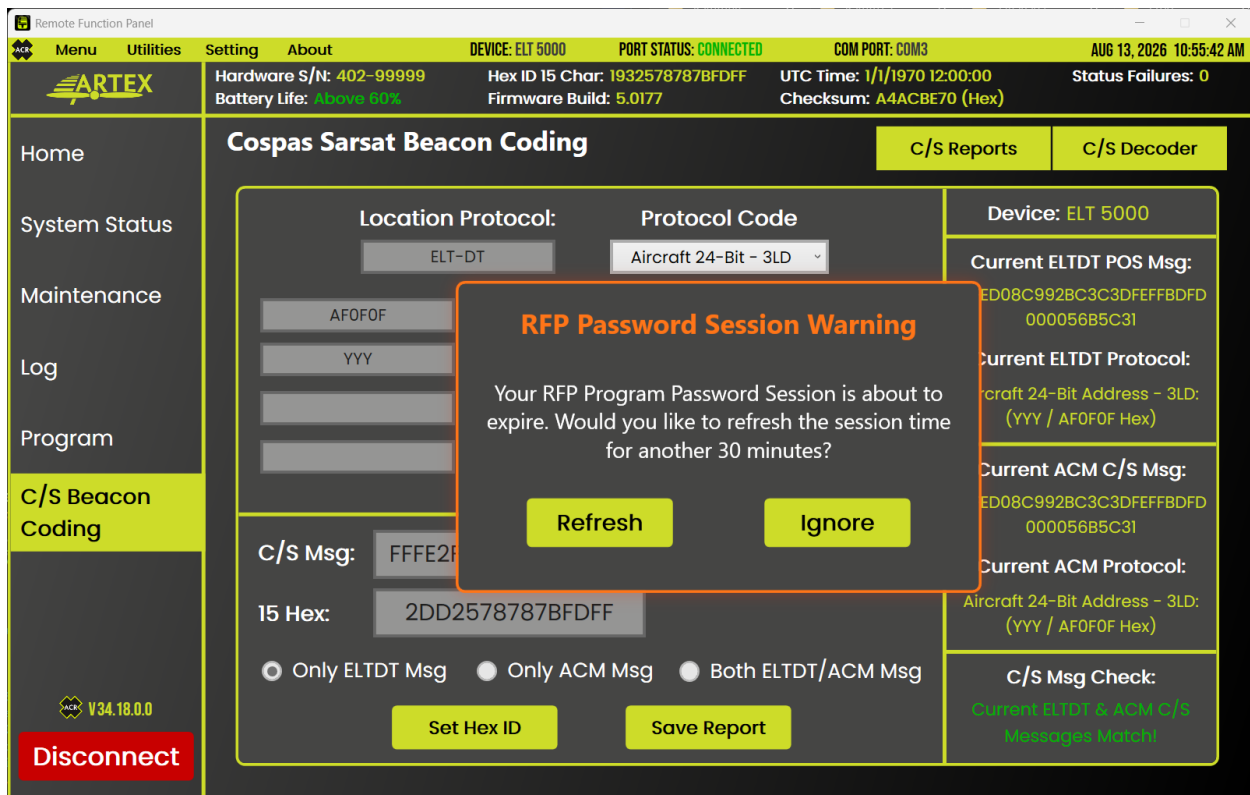


Figure 93 - RFP Password Session

4. Once the 30 minute session timer expires, a new popup will display, requiring the user to re-enter the Programming Password.

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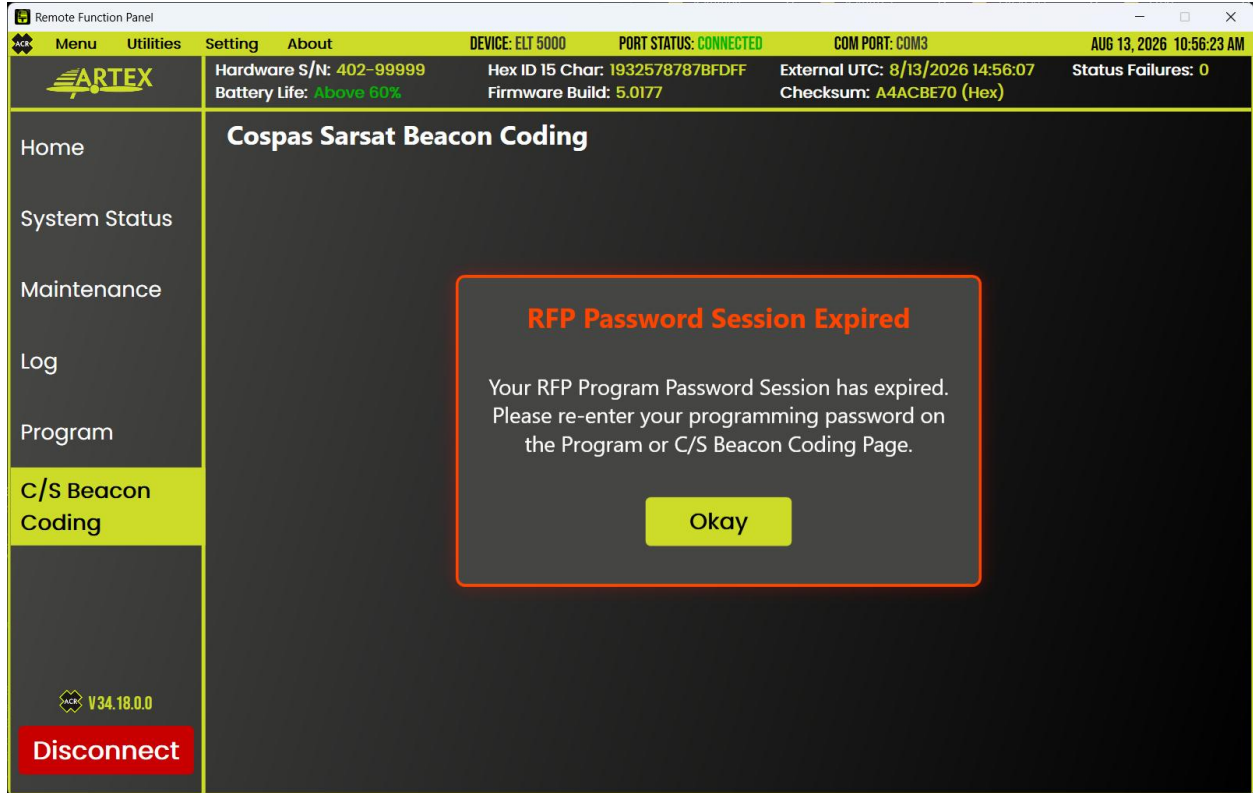


Figure 94 - RFP Password Session

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21.3 VIEWING THE MANUAL IN APP

1. The RFP offers an in-app manual to help with operating the RFP application.
2. To view the RFP manual in the app, select the Utilities menu item at the top of the screen.

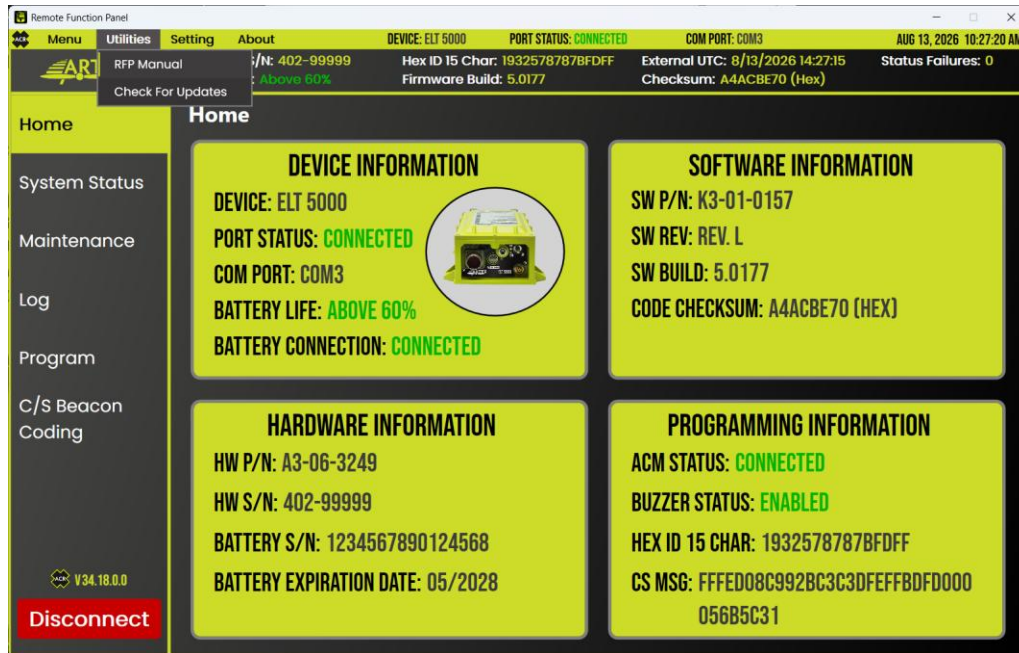


Figure 95 - RFP Manual Viewer

3. Select RFP Manual to open the manual. A new window appears with the latest manual.

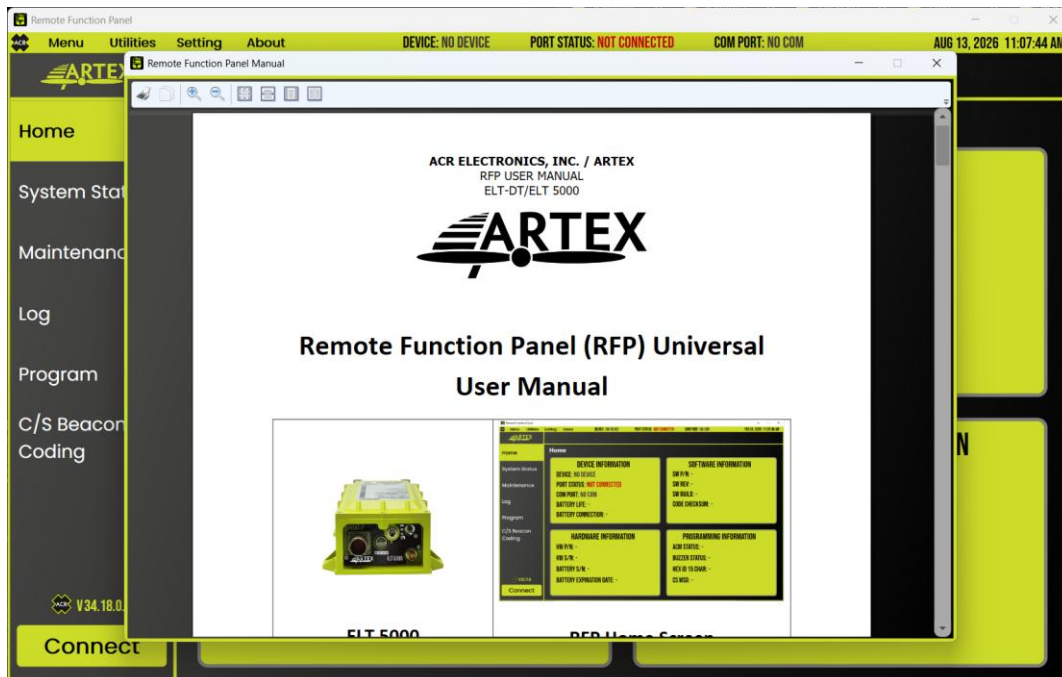


Figure 96 - RFP Manual Viewer

21.4 UPDATING THE RFP APP

The RFP offers an automatic over-the-air software update feature. This feature automatically notifies the RFP user of a software update (if available) on initial startup of the application.

Internet access is required to check for RFP software updates.

21.4.1 How to Update

1. On initial startup of the application, the RFP verifies that an internet connection is present.
2. Once connected to the internet, the RFP checks for a software update.
3. If an update is found, a popup displays prompting the user if they want to continue with the update.
4. The popup displays information about the current installation of RFP and what RFP version is currently released by ACR Electronics.

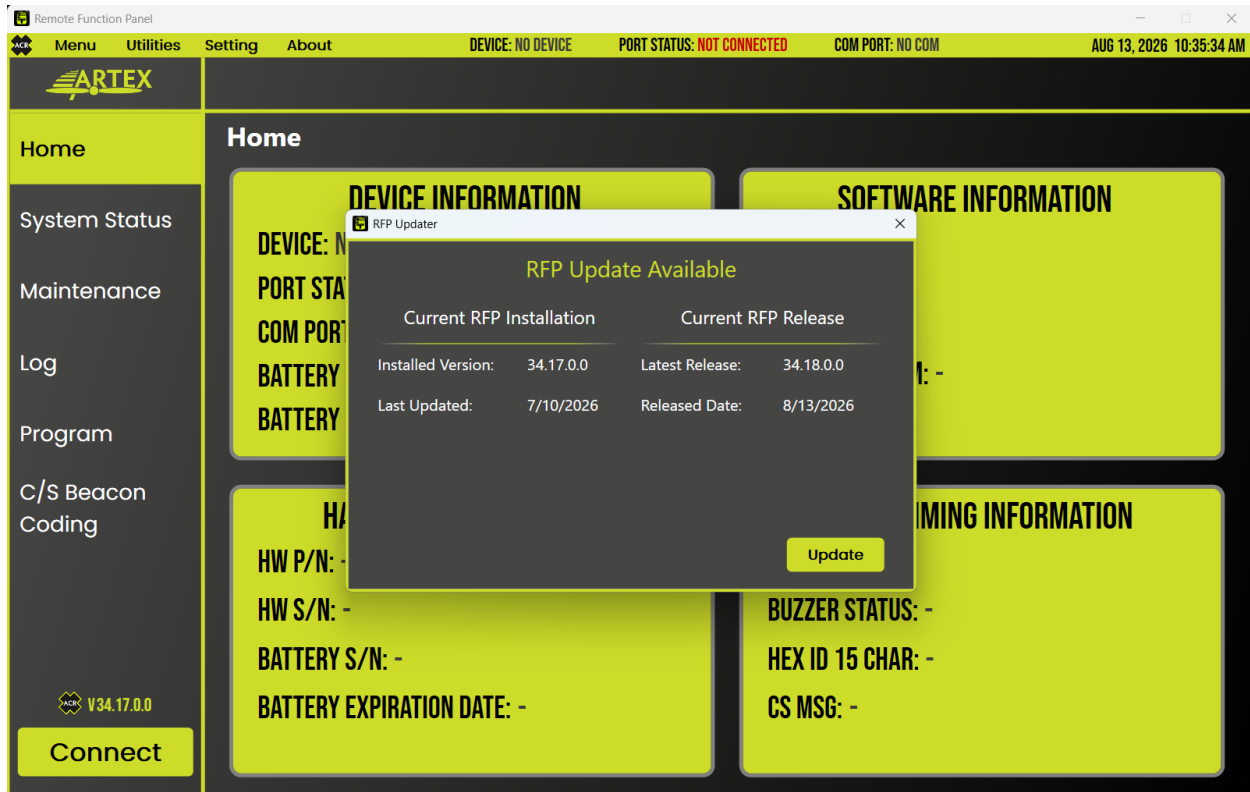


Figure 97 - RFP Updater

5. The RFP user can either select Update or close the popup with the X in the top right corner.
 - 5.1. Selecting Update continues with the update (Note: This closes the RFP application to ensure a proper installation).
 - 5.2. Clicking the X does not install the update and the RFP user can continue using the application.
6. Once the Update button is selected, the RFP begins trying to download the update.
7. A download bar will appear with the status of the download process.

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8. The RFP user can either wait for the download to finish or if they don't want to install the update anymore then they can click cancel to stop the download.

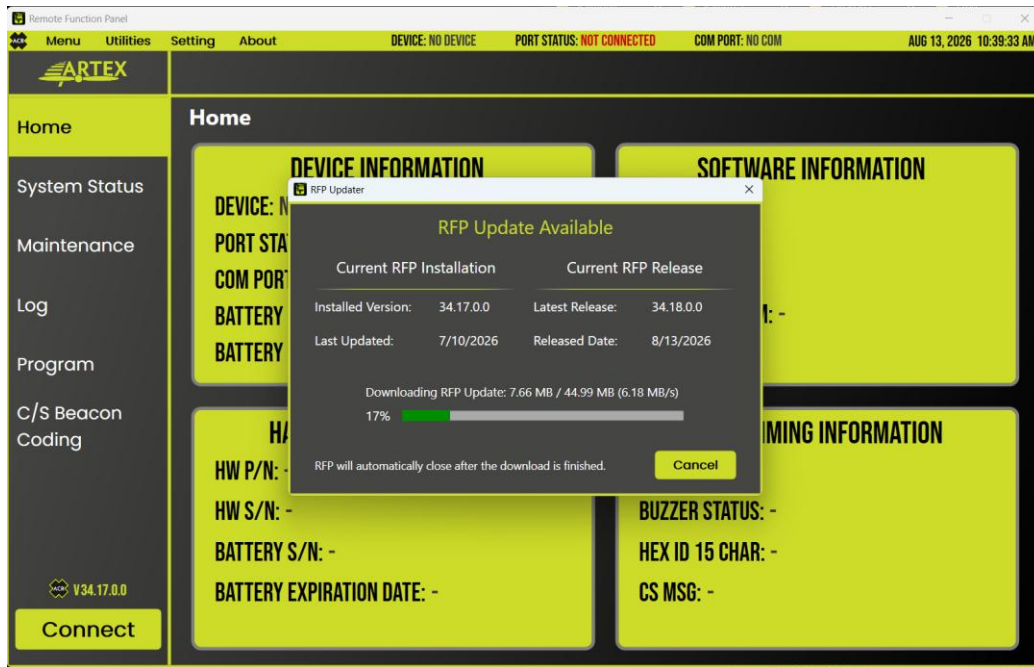


Figure 98 - RFP Updater

9. If successful, the RFP closes and an installer window appears.
10. Proceed through the installer window prompts to properly install the new RFP software update.

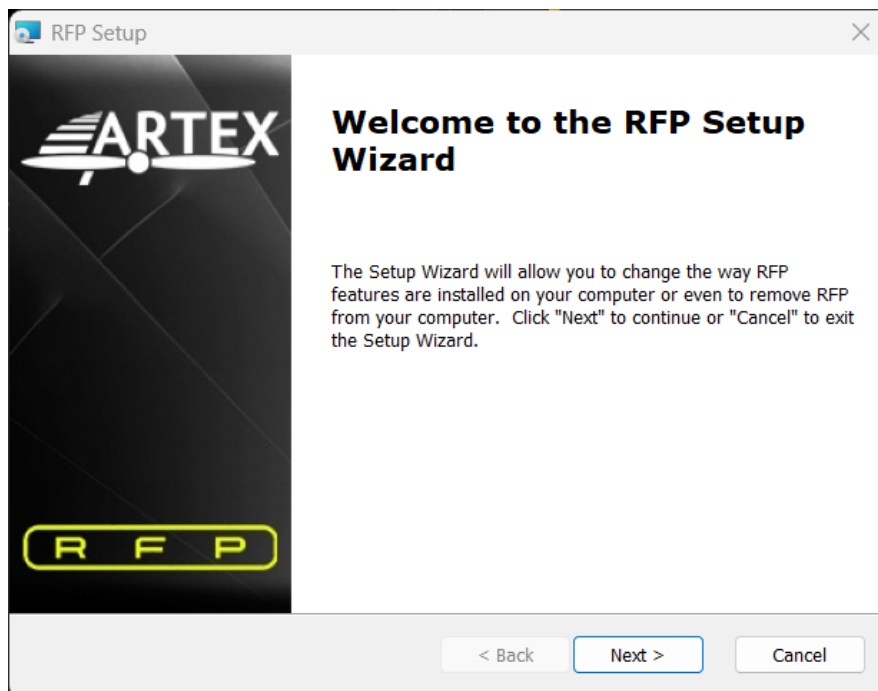


Figure 99 - RFP Installer

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11. Please read through the End User License Agreement then select on **I accept**. Select Next.

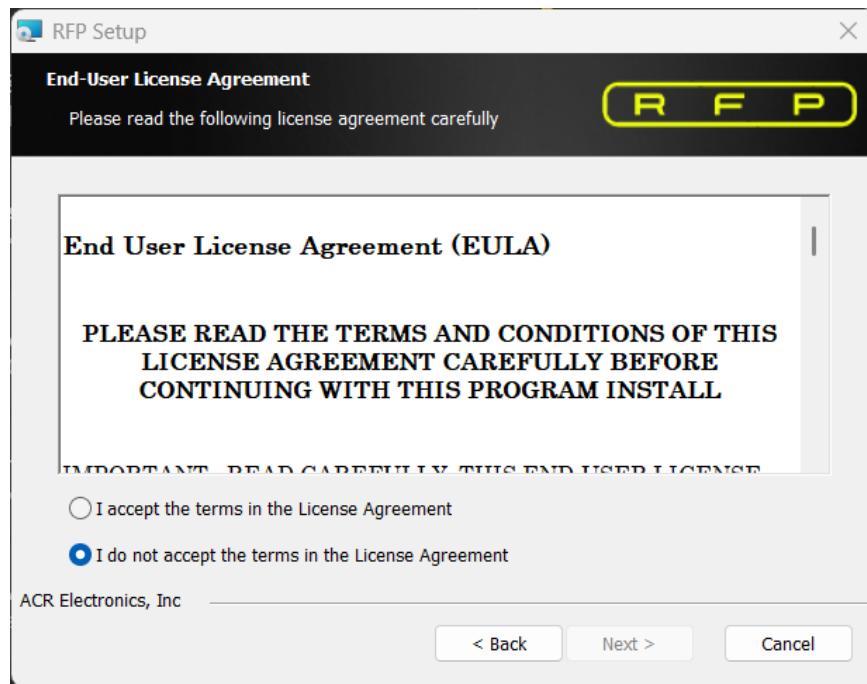


Figure 100 - RFP Installer

12. Verify that the install location is the following path: C:\Program Files (x86)\ACR Electronics, Inc\RFP\
13. Select Next.

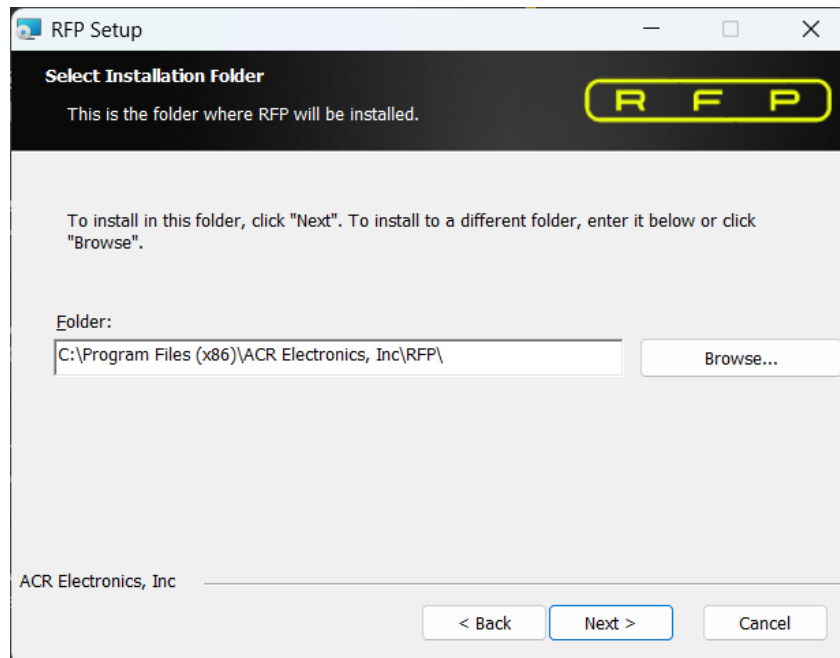


Figure 101 - RFP Installer

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14. Confirm that you want to install the new RFP software. Select Install.

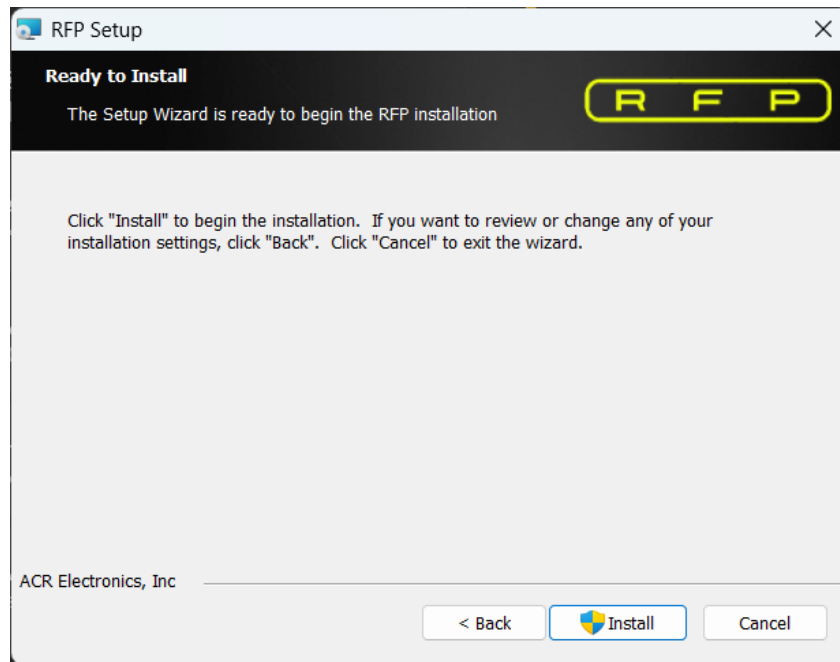


Figure 102 - RFP Installer

15. Wait for the installation to finish.

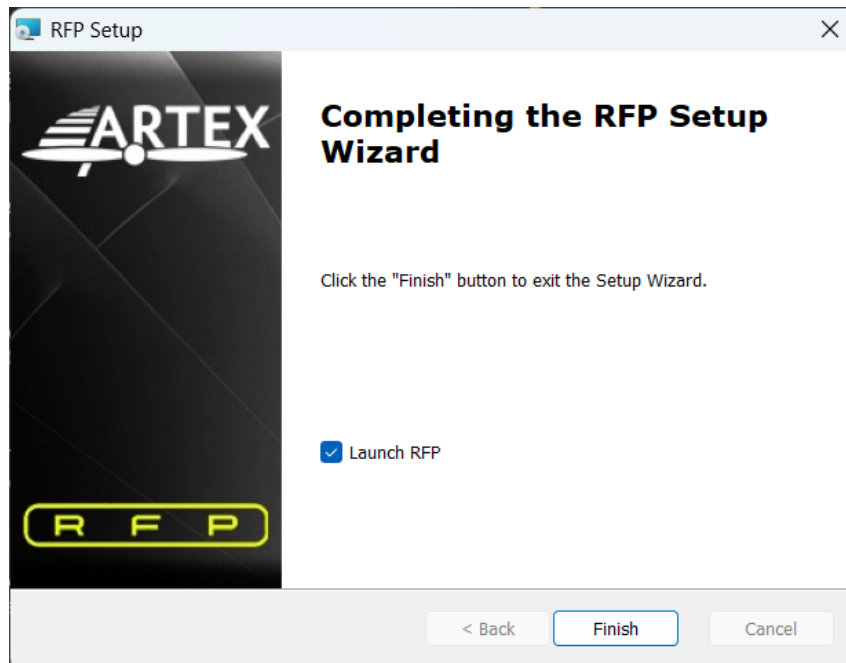


Figure 103 - RFP Installer

16. After the installation is complete, keep the Launch RFP toggle checked then click Finish to reopen the RFP automatically. Once the RFP is reopened, verify that the version number at the bottom left of the screen has changed to a newer version.

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21.4.2 Manually Check for Updates

1. On top of automatically checking for updates, the RFP user may manually check for updates while using the RFP.
2. Click on the Utilities menu item at the top of the screen then select on Check for Updates. This manually checks the server for an update.
3. If an update is found, please proceed through the same installation process as in section 21.4.1.

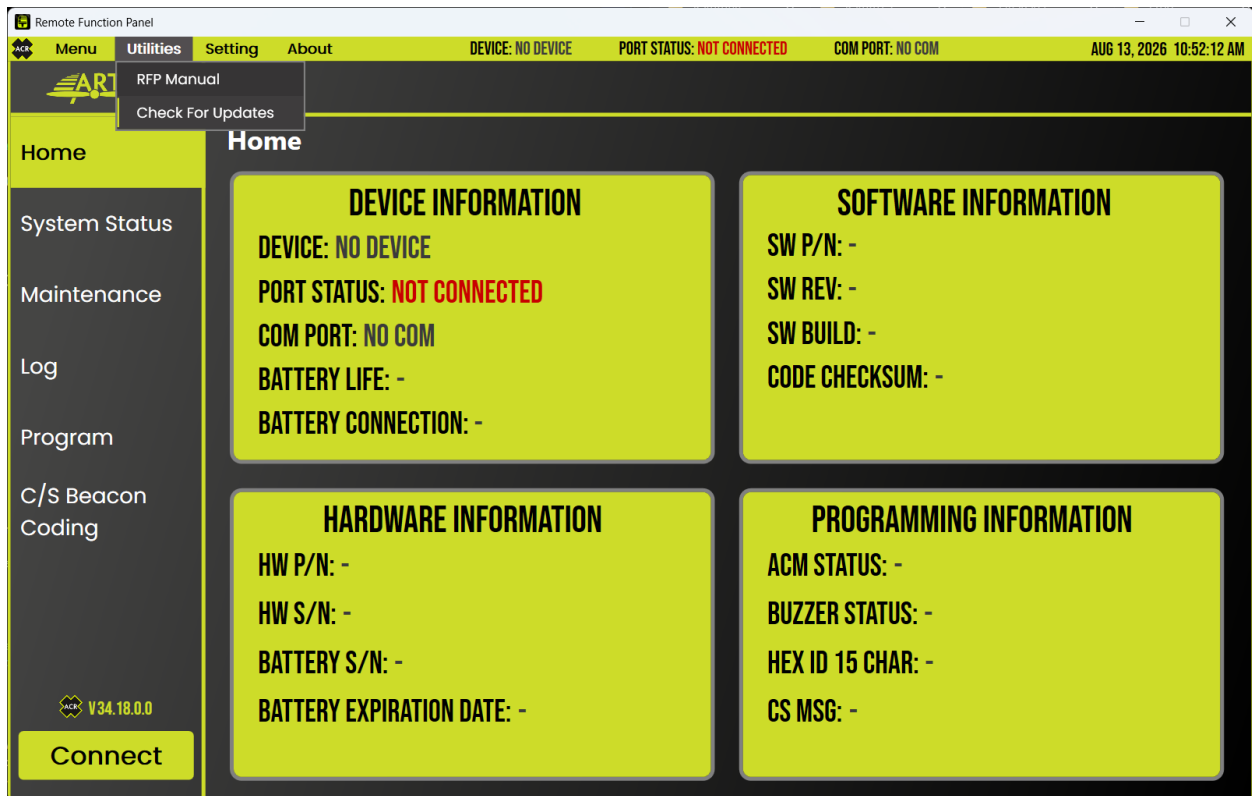


Figure 104 - RFP Manual Update Check

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21.4.3 Turn On or Off Auto Updates

1. RFP users can disable automatic updates if they prefer not to receive them.
2. It is advised to keep automatic updates enabled to ensure the RFP can stay up to date with the latest RFP features.
3. Please note that if the automatic updates are disabled, the RFP user must manually check for updates.
4. To disable automatic updates, select the setting menu item at the top of the screen then select Update Checker -> OFF.
5. To enable automatic updates, select the setting menu item at the top of the screen then select Update Checker -> ON.

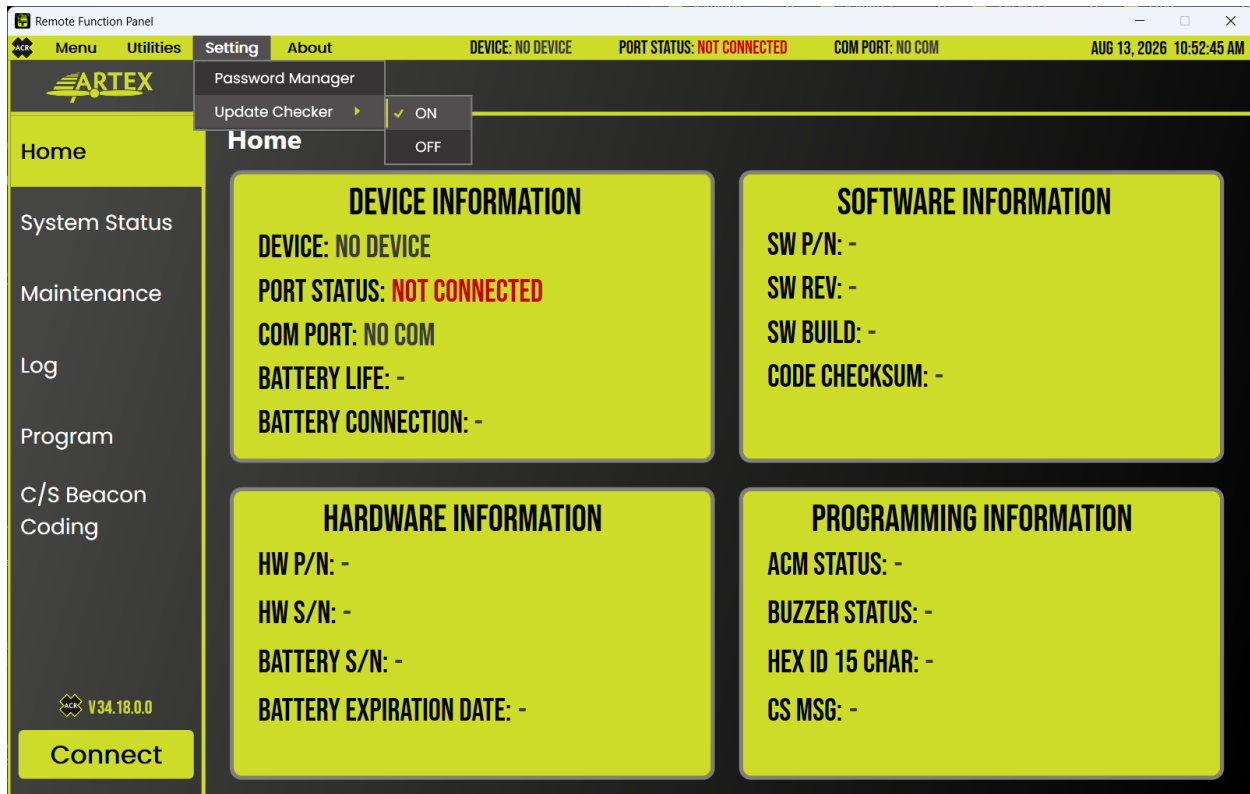


Figure 105 - RFP Update Preference