

TOPIC
SATEL-EASy+ and SATEL-EASy Pro+ radio modems (1MB) - Firmware 10.2.4.1
Date: 29.06.2026
☐ HW ☒ FW ☐ SW ☐ New product ☐ Other:

APPLIES TO	
Firmware versions 10.2.3.0.xx applies to the following products:	
PRODUCT CODE AND NAME	REMARKS
YM6010 SATEL-EASy+	
YM6015 SATEL-EASy+	
YM6050 SATEL-EASy+	
YM6055 SATEL-EASy+	
YM6820 SATEL-EASy Pro+	
YM6823 SATEL-EASy Pro+	
YM6825 SATEL-EASy Pro+	
YM6830 SATEL-EASy Pro+	
YM6833 SATEL-EASy Pro+	
YM6835 SATEL-EASy Pro+	
YM6840 SATEL-EASy Pro+	
YM6843 SATEL-EASy Pro+	
YM6845 SATEL-EASy Pro+	
YM6853 SATEL-EASy Pro+	
YM6860 SATEL-EASy Pro+	
YM6865 SATEL-EASy Pro+	
YM6870 SATEL-EASy Pro+	
YM6875 SATEL-EASy Pro+	

CHANGES	
The changes compared to the previous firmware version 10.2.3.0.xx are listed below.	
Enhancements	1) Updated test mode timing The short block mode test interval has been changed from 200 ms to 1 second. 2) Removed the Long Block Test option from the LCD UI Removed the Long Block Test option from the LCD UI, while retaining the Short Block Test feature for diagnostic and radio link testing purposes. 3) Radio Priority Mode Radio Priority selection (TX or RX Priority) is now added in all radio compatibility modes on the LCD.

Error fixes	1) Error check modes CRC-8 Partial and CRC-8 Full have been removed from LCD UI Fixed an issue where obsolete CRC-8 Full and CRC-8 Partial options were still visible in the LCD UI of EASy+ products. 2) Corrected Port 2 SL parser operation in command mode An issue has been fixed where the SL parser on Port 2 did not operate when command mode was active. In previous software versions, SL protocol messages or commands received through Port 2 could fail to be interpreted correctly while the device was in command mode. This could affect applications or tools that use Port 2 for device control, configuration, or SL-based communication. 3) Updated radio timing for selected communication settings Radio timings have been modified for configurations using the following combination of settings: • 12.5 kHz channel bandwidth • 9600bps/4800bps UART • FEC enabled • AES128 encryption enabled • Hardware handshaking enabled In previous software versions, this specific combination of settings could cause data transmission errors. The updated radio timing improves communication reliability when these features are used together. 4) Fixed over hop behavior in Classic Source Routing When over hop functionality was used in classic source routing radio networks, the previous FW versions could not establish a valid return path if a remote station receives a message with a stronger signal from any radio other than the “nearest” one (that is, the adjacent station in the defined address chain). This limitation is now fixed.
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KNOWN ISSUES
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COMPATIBILITY
OEM customers using the OEM flash update method need to follow special procedures that are described in separate document (OEM_Flash_Method_For_SATEL_Modems).
SATEL NETCO DEVICE software is the recommended tool for firmware update and configuration.

Please see the SW compatibility from chart: <https://www.satel.com/products/software/software-product-compatibility-table/>. It is recommended to use the latest available SW tool versions that are available at <https://www.satel.com/support-and-services/downloads/>

Special SW considerations:

Firmware updates for 1MB assemblies and configuration of the latest features require either SATEL NETCO DEVICE v2.23.0 or later and Satel Configuration Manager software version v1.23.3 (SATEL-EASy+) or later.

It is recommended to use SATEL NETCO DEVICE for firmware updates.

SaTerm Modem files (.smf):

smf-files are available from <https://www.satel.com/support-and-services/downloads/> page.

Package name "SATEL-EASy+ product family smf files 9_2024.zip"

SATEL-EASy+: SATEL_EASy_PLUS_v3.smf

SATEL-EASY Pro+ (25W): SATEL_EASy_PRO_PLUS_25W_v1.smf

SATEL-EASY Pro+ (35W): SATEL_EASy_PRO_PLUS_35W_v1.smf

FIRMWARE FILES	
PRODUCT CODE, NAME, PROSESSOR TYPE AND AES	FIRMWARE (FLASH) FILE
YM6010 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_4_1_44.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.44.2.7.1.3
YM6015 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_4_1_45.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.45.2.7.1.3
YM6050 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_4_1_44.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.44.2.7.1.3
YM6055 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_4_1_45.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.45.2.7.1.3
YM6820 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_4_1_44.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.44.2.7.1.3
YM6823 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_4_1_44.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.44.2.7.1.3
YM6825 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_4_1_45.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.45.2.7.1.3
YM6830 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_4_1_44.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.44.2.7.1.3
YM6833 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_4_1_45.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.45.2.7.1.3
YM6835 SATEL-EASy Pro+	SATEL_EasyPlus_FW_10_2_4_1_45.pff

Radio module with 1MB microcontroller. AES encryption on radio link not supported.	Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.45.2.7.1.3
YM6840 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_4_1_44.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.44.2.7.1.3
YM6843 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_4_1_44.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.44.2.7.1.3
YM6845 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_4_1_45.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.45.2.7.1.3
YM6853 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_4_1_45.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.45.2.7.1.3
YM6860 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_4_1_44.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.44.2.7.1.3
YM6865 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_4_1_45.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.45.2.7.1.3
YM6870 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_4_1_44.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.44.2.7.1.3
YM6875 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_4_1_45.pff Control Unit version: 10.48.1.1.0.33 Radio Unit version: 07.45.2.7.1.3
• The correct format of the flash file and the compatibility to the target modem must be checked before performing the firmware update. • Using the .pff-files with SATEL SW tools (SATEL NETCO DEVICE or SATEL Configuration Manager) prevents the usage of mismatching file types. • The expected FW update time at 115200 bps serial interface speed is 12-13 minutes in total.	

PACKAGE INFO

The targeted HW and encryption support in the RU FW are indicated by the last digits:

- .44 encryption supported, flash memory size 1 MB
- .45 without encryption support, flash memory size 1 MB

“SATELLINE-3AS-NMS” compatibility mode displays the FW information differently compared to other compatibility modes. Please contact SATEL technical support for any additional information.