

TOPIC
SATEL-EASy+ and SATEL-EASy Pro+ radio modems (1MB) - Firmware 10.2.2.0
Date: 20.10.2025
<input type="checkbox"/> HW <input checked="" type="checkbox"/> FW <input type="checkbox"/> SW <input type="checkbox"/> New product <input type="checkbox"/> Other:

APPLIES TO	
Firmware versions 10.2.2.0.xx applies to the following products:	
PRODUCT CODE AND NAME	REMARKS
YM6010 SATEL-EASy+	
YM6015 SATEL-EASy+	
YM6030 SATEL-EASy+	300 MHz
YM6035 SATEL-EASy+	300 MHz
YM6050 SATEL-EASy+	
YM6055 SATEL-EASy+	
YM6060 SATEL-EASy+	300 MHz
YM6065 SATEL-EASy+	300 MHz
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 10.2.1.11.xx are listed below.	
New features	<p>1) Alinco radio protocol support added</p> <p>SATEL-EASy+ (300MHz) radio modems are now radio compatible to Alinco systems (Alinco model XEDC35M as the reference), that are applied on the Japanese market, covering 82 channels (channel spacing 6.25 kHz, frequency bands 351.03125-351.10000 MHz, 351.20000-351.63125 MHz).</p> <p>Alinco radio compatibility mode can be selected by using:</p> <ul style="list-style-type: none"> • SATEL EASy+ LCD menu (if available) • SATEL NETCO DEVICE software (Alinco supported since version 2.18.0) • SATEL Configuration Manager (Alinco supported since version 1.20.1)

	<ul style="list-style-type: none"> SL commands for configuring Alinco radio protocol: <ul style="list-style-type: none"> SL@S=13 (Set compatibility mode), value 13 selects Alinco SL@S? (Get compatibility mode) is responded with the active compatibility mode option number (13 = Alinco) SL~E=M5,I1,A<user code> (Set user code), value of <user code> is 0 – 511 SL~E?M5,I1 (Get user code) is responded with the user code [0 - 511] SL~E=M5,I2,A<channel index> (Set current channel index), value of <channel index> is 1 - 82 SL~E?M5,I2 (Get current channel index) is responded with the active channel index number [1 - 82] <p><i>NOTE:</i> User code works as the filter – only the radio messages arriving with the matching user code or with the broadcast code (user code = 0) are received</p>
Enhancements	2) The default contrast setting of the LCD display has been updated to improve the screen's appearance and readability.
Error fixes	3) Implemented stability fixes that enhance the internal communication of the device, particularly between the host and the radio module.

COMPATIBILITY
<p>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).</p> <p>SATEL NETCO DEVICE software is the recommended tool for firmware update and configuration.</p> <p>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/</p> <p>Special SW considerations: Firmware updates for 1MB assemblies and configuration of the latest features require either SATEL NETCO DEVICE v2.23.0 or Satel Configuration Manager software version >v1.20.1 (release planned Q4/2025). It is recommended to use SATEL NETCO DEVICE for firmware updates.</p> <p>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</p>

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_2_0_44.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.44.2.7.0.6
YM6015 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_45.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6030 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_2_0_71.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6035 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_72.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6050 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_2_0_44.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.44.2.7.0.6
YM6055 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_45.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6060 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_2_0_71.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6065 SATEL-EASy+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_72.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6820 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_2_0_44.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.44.2.7.0.6
YM6823 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_2_0_44.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.44.2.7.0.6
YM6825 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_45.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6830 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_2_0_44.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.44.2.7.0.6
YM6833 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_45.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6835 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_45.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6840 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_2_0_44.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.44.2.7.0.6
YM6843 SATEL-EASy Pro+	SATEL_EasyPlus_FW_10_2_2_0_44.pff

Radio module with 1MB microcontroller. AES encryption on radio link supported.	Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.44.2.7.0.6
YM6845 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_45.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6853 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_45.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6860 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_2_0_44.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.44.2.7.0.6
YM6865 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_45.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
YM6870 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link supported.	SATEL_EasyPlus_FW_10_2_2_0_44.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.44.2.7.0.6
YM6875 SATEL-EASy Pro+ Radio module with 1MB microcontroller. AES encryption on radio link not supported.	SATEL_EasyPlus_FW_10_2_2_0_45.pff Control Unit version: 10.48.1.1.0.30 Radio Unit version: 07.45.2.7.0.6
<ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• .44/.71 encryption supported, flash memory size 1 MB• .45/.72 without encryption support, flash memory size 1 MB <p>“SATELLINE-3AS-NMS” compatibility mode displays the FW information differently compared to other compatibility modes. Please contact technical support for any additional information.</p>