

TOPIC
SATELLINE-3AS and EASy radio modems - Firmware version 3.63
Date: 09.01.2015
<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 version 3.63 applies to the following products:	
PRODUCT CODE AND NAME	REMARKS
YM1011 SATELLINE-3AS	
YM1012 SATELLINE-3AS DB	
YM1016 SATELLINE-3ASd	
YM1017 SATELLINE-3ASd DB	
YM1027 SATELLINE-3AS-OEM11	
YM1029 SATELLINE-3ASm-SMA EMI	
YM1050 SATELLINE-3AS/KR	
YM3000 SATELLINE-3AS Epic	
YM3001 SATELLINE-3ASd Epic	
YM3002 SATELLINE-3AS Epic C	
YM3003 SATELLINE-3ASd Epic C	
YM3004 SATELLINE-3AS Epic DB	
YM3005 SATELLINE-3ASd Epic DB	
YM3006 SATELLINE-3AS Epic DB C	
YM3007 SATELLINE-3ASd Epic DB C	
YM6300 SATELLINE-M3-TR1	
YM6301 SATELLINE-M3-TR1 869	
YM6500 SATELLINE-EASy	
YM6550 SATELLINE-EASy	
YM6501 SATELLINE-EASy 869	
YM6551 SATELLINE-EASy 869	
YM6803 SATELLINE-EASy Pro 35W	

CHANGES

The changes compared to the previous version 3.60.10 are listed below.

Enhanced features

1. Channel list TxPower defines the maximum for channel power

The transmitter power is now limited according the channel list. If TxPower is 0 (=not defined) in the channel list, then the power is not limited.

2. Channel list supports separate Rx/Tx frequencies

Frequency of a channel can be configured separately for the receiver and the transmitter. For this purpose NMSID 1.1760...1.1799 were created for RX frequencies. The existing frequency settings NMSID 1.1640...1.1679 are used for the transmitter. If the new settings are not set, firmware uses TX frequency also for RX. SATEL Configuration Manager software starting from version 1.4.0 supports the configuration of separate RX/TX frequencies, using earlier versions both TX and RX get common frequency value.

3. SL command SL\$L= (Set Channel info) supports Rx/Tx Frequencies

SL\$L=Iaa,Nbbbbbb,FTccc.cccccc,FRccc.cccccc,Wdd.ddd,Peeee<CR> is the format of the command, where FT field defines TX frequency and FR field defines RX frequency (MHz).

The old format SL\$L=Iaa,Nbbbbbb,Fccc.cccccc,Wdd.ddd,Peeee<CR> works also, F field defines a common frequency for RX and TX.

4. LCD of SURV firmware variants support TxPower setting

The active transmitter power level can be changed using push buttons.

5. LCD of SURV variants display now 6 rows (previously 4)

Both TX frequency and RX frequency are fitted on the main screen.

6. Accuracy of Call sign Interval timing is now in order of seconds

Previously the actual timing varied even 50% from nominal depending on the processor tasks.



<p>Enhanced features</p>	<p>7. Call sign is transmitted only if transmitter is being used</p> <p>The latest transmission (other than Call sign) times the countdown of the next Call sign transmission. Call sign is transmitted after timeout defined by Call sign Interval setting. In this way the modems that are used as receivers only do not transmit Call signs.</p>
<p>Fixed Faults / Defects</p>	<p>8. Channel List In Use setting does not flip on unintentionally</p> <p>In all previous versions firmware swapped Channel List In Use setting from off to on always when the very first channel in the list was written using SL or NMS commands. This may have led to a situation where modem is on the unwanted frequency as it uses the channel list unexpectedly. The flip of the setting goes easily unnoticed even when using Configuration Manager software because its value is not updated on the screen unless re-reading the settings. The bug does not involve EASy SURV nor EASy Pro 35W SURV firmware variants.</p> <p>9. Call sign operation in repeater or when receiving using RxPriority</p> <p>In previous versions a part of the received message might get mixed and was sent as a Morse code in front of the actual Call sign identifier. In worst case the transmission may take appr. 90 seconds, after which the modem resets itself.</p> <p>10. Transition to "command mode" using SL+++ command</p> <p>The earlier versions responded SL+++ command with "ERROR" when receiving using RxPriority or Repeater function.</p> <p><i>Note1.</i> SL+++ is responded with "ERROR", as should, if transmitter is already transmitting data. In case a Call sign transmission is already ongoing, the command mode will be activated plus the ongoing Call sign will be completed. After that no more Call signs are transmitted during the command mode.</p> <p><i>Note2.</i> If the radio modem is in the programming mode, it responds with "BUSY" and resets itself. Thus another SL+++ command must be applied.</p> <p>11. SL%B= command does not interrupt the command mode anymore</p> <p>The serial port is initialized correctly without switching the command mode off.</p>



Fixed Faults / Defects	<p>12. SL%B= responds correctly with "OK"</p> <p>The response was "OK" followed falsely by the parameter values (for example "OK 38400,8,N,1").</p> <p>13. EASy35W_SURV: LCD of 5-25W models fixed</p> <p>The bug involves the models configured to 5-25W transmitter power level set. When exiting the transmitter power level menu on LCD, a wrong menu appears mixing the operation.</p> <p>14. Reset problem in Trimtalk(T) reception fixed</p> <p>Depending on the exact combination of timing and signal level condition when the receiver found the synchronization part of a Trimtalk message, the firmware performed a reset.</p>
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COMPATIBILITY
The released firmware version is downwards compatible.

FIRMWARE FILES	
Firmware (Flash) file	Product
SATELLINE_3AS_and_Epic_fw_3_63.sf2	3AS, 3AS Epic
SATELLINE_3AS_OEM11_fw_3_63.sf11	3AS-OEM11
SATELLINE_M3_TR1_fw_06_16_3_63.s16	TR1
SATELLINE_EASy_fw_06_16_3_63.s16	EASy
SATELLINE_EASy_SURV_fw_06_23_3_63.s16	EASy (SURV)
SATELLINE_EASyPro35W_06_18_3_63.s18	EASy Pro 35W
SATELLINE_EASyPro35W_SURV_06_24_3_63.s18	EASy Pro 35W (SURV)
SATELLINE_M3_TR1_869MHz_fw_06_16_3_63.s26	TR1 869
SATELLINE_EASy_869MHz_fw_06_26_3_63.s26	EASy 869

NOTE: The corresponding flash files with extension .u16, .u18 or .u26 are in the OEM flash format that is applicable to the OEM flash method.
The correct format of the flash file and the compatibility to the target modem must be checked before performing the firmware update using the OEM flash method. Otherwise the radio modem may not start properly after the firmware update, thus requiring factory service.