

TD1202 RN0001 SOFT1117



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1 Overview

This document provides information regarding the software changes between the original SOFT1104 firmware version and the current SOFT1117 firmware version for the TD10202 SIGFOX™ gateway modules.

2 Major Changes

The only major change that required an evolution of the firmware from SOFT1104 to SOFT1117 is the addition of the support for the new revision (from "**0B**" to "**1B**") of the SiLabs Si446x RF front-end chip.

The SiLabs Si446x revision number can be obtained using the ATI25 command:

Command	Responses
ATI25	2
Note: RF chip revision number	OK
	Note: RF chip revision is 0B
ATI25	3
Note: RF chip revision number	OK
·	Note: RF chip revision is 1B

3 Minor Changes

Although non critical, several minor changes have been integrated into the SOFT1117 firmware:

3.1 Echo Problem after issuing an "A/" Command

There was a character echo missing on the following "a" character after issuing an "a/" ("Repeat Last Command") command.

This problem was present in SOFT1104 and is corrected in SOFT1117.

3.2 Missing Boundary Check on Argument to S300 Command

Unlike what is stated in the *TD1202 Reference Manual*, the argument to the "s300" ("SIGFOX[™] Keepalive Period") command was not checked correctly for its upper boundary (127).

This problem was present in SOFT1104 and is corrected in SOFT1117.

3.3 Wrong Handling of Out of Range Argument to S301 Command

Giving a value greater than 2 to the "s301" (("SIGFOX™ Keepalive Repeats") returned an error as stated in the *TD1202 Reference Manual*, but was nevertheless stored into the S301 register.

This problem was present in SOFT1104 and is corrected in SOFT1117.



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3.4 Random Channel Sequence

In the version SOFT1104, the channel selection sequences are the same after resetting or powering ON the module.

These sequences are different in SOFT1117.

4 Information

The first SIGFOX™ ID associated to a product containing the SiLabs Si446x B1B RF front-end chip revision is "4D4D".

All TD1202 modules with a SIGFOX™ ID greater or equal to "**4D4D**" must be programmed with the SOFT1117 firmware or later.



Notes:



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