

TAINY GMOD-S3

Software Release Note



Dr. Neuhaus

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1 Introduction

This release note shows the major differences between the different TAINY GMOD-S3 released firmware versions. It indicates new and improved functions.

First official released version for TAINY GMOD-S3 is **Version 1.105**.

The update with a new firmware version will fully replace the existing firmware in the device. Please follow the update procedure as being explained in the user manual.

2 Version 1.105 / 22.3.2013

The firmware version 1.105 of the TAINY GMOD-S3 is the first firmware for this device, which has been released for production.

With this version the release notes starts.

3 Version 1.200 / 27.5.2013

This section of the release note describes the major differences between version 1.200 and version 1.105. It indicates new and improved functions.

3.1 Compatibility

The previously made settings remain valid after a software update. Nethertheless check the compatibility with your application before starting the productive use.

3.2 New Functions

3.2.1 TSC Protocol

- Beside the IPT protocol the TAINY GMOD-S3 supports now also the TSC protocol used by former versions of the TAINY Switching Server and the TAINY Modem Server.
- For activation please use the command: AT^PB0="TSC".

3.3 Improved Functions

None

3.4 Known Problems

- The commands AT+CNMI?, AT+CNMI=?, AT+CNMI=2,1,0,0,0 are not accepted.

4 Version 1.203 / 18.7.2013

This section of the release note describes the major differences between version 1.203 and version 1.200. It indicates new and improved functions.

The versions 1.201...1.202 are internal test versions only.

4.1 Compatibility

The previously made settings remain valid after a software update. Nevertheless check the compatibility with your application before starting the productive use.

4.2 New Functions

None

4.3 Improved Functions

4.3.1 Reading Modem Informations during TSC/IPT-Master Log-in

- During the log-on process at a TSC/IPT master, the TAINY GMOD-S3 did not react to the retrieval of optional elements. This misbehavior has been corrected.

4.3.2 Register at the GSM net, the GPRS, the TSC and IPT-Master

- Several root causes, which caused trouble in the past when attaching the GSM network or the GPRS or registering at the TSC/IPT master have been fixed.

4.4 Known Problems

- The commands AT+CNMI?, AT+CNMI=?, AT+CNMI=2,1,0,0,0 are not accepted.

5 Version 1.209 / 27.5.2013

This section of the release note describes the major differences between version 1.209 and version 1.203. It indicates new and improved functions.

The versions 1.204...1.209 are internal test versions only.

5.1 Compatibility

The previously made settings remain valid after a software update. Nevertheless check the compatibility with your application before starting the productive use.

5.2 New Functions

None

5.3 Improved Functions

5.3.1 SMS Communication

- SMS send timeouts adapted.
- AT+CNMI functions corrected; command is accepted now.
- SMS is now supported in Leased Line Mode.

5.3.2 WAN Communication

- Behavior in case of network connection loss improved.
- Improved failure handling in case of missing return codes from the GSM engine.

5.3.3 IPT/TSC Communication

- Improved behavior in case of incoming CSD calls in TSC mode.
- IPT buffer increased to 1024 Bytes.
- Additional delay for data packet assembly in IPT Mode.

5.3.4 Register at the GSM net, the GPRS, the TSC and IPT-Master

- Several root causes, which caused trouble in the past when attaching the GSM network or the GPRS or registering at the TSC/IPT master have been fixed.

5.4 Known Problems

5.4.1 AT+COPN

- The response to the command AT+COPN aborts before it is complete. When the next AT command (e.g. ATO) has been entered the rest of the +COPN response is output.

6 Version 1.227 / 14.11.2014

This section of the release note describes the major differences between version 1.227 and version 1.209. It indicates new and improved functions.

The versions 1.210...1.226 are internal test versions.

6.1 Compatibility

The previously made settings remain valid after a software update. Nevertheless check the compatibility with your application before starting the productive use.

6.2 New Functions

6.2.1 Enable / Disable Roaming

- Roaming can now be disabled and enabled by configuration. Therefore a new parameter AT^PI05 has been introduced. See user manual (from version 1.5).

6.2.2 Delay for Halfduplex Operation

- To improve the support of half duplex communication at the serial interface a turnaround delay has been introduced. The delay can be adjusted by configuration. Therefore a new parameter AT^PJ06 has been added; See user manual (from version 1.5).

6.3 Improved Functions

6.3.1 PIN handling

- Entering the PIN with AT+CPIN it must not longer be written in quotes (but it still can).
- Entering the PIN with AT+CPIN it will not longer be automatically stored. You can store it, with AT&W3.

6.3.2 IPT/TSC mode

- Several misbehaviors and exception handlings have been corrected.
- The IPT/TSC watchdog timer will now be resetted when sending data.
- TSC protocol: fixed RX_Bytes in TscIPStatisticResponse.
- IPT IP statistics corrected and permanently stored (30 minutes interval).
- IPT/TSC buffer size increased for better speed.
- Leased Line mode (LL) can be disconnected by DTR or ATH (TSC logout).
- Fixed connection retry counter in ip client modes.

6.3.3 RSV mode

- Several misbehaviors and exception handlings have been corrected.

6.3.4 TAM mode

- Several misbehaviors and exception handlings have been corrected.

6.3.5 RCL mode

- Fixed connection retry counter in ip client modes.

6.3.6 GPRS Access data

- Fixed parameter Z0101.

6.3.7 Remote parametrisation

- Several misbehaviors and exception handlings have been corrected.

6.3.8 AT command interface

- AT+C... commands may be concatenated without semicolon.
- Fixed some new AT issues (AT&F, ATZ, AT+IPR, AT+xxx timing).
- BER report added to response to AT+CSQ.
- ATO lacked CONNECT response.

6.3.9 New default values

- Parameter J02 (ignore_rts) default OFF.
- Parameter E08 default off.

6.4 Known Problems

None

7 Supported HW Versions

Hardware Version	Modification	Corresponding FW Versions
2.1	Production start	1.105, 1.200, 1.203, 1.209, 1.277
2.2	New component partnumber for the SIM card holder	1.105, 1.200, 1.203, 1.209, 1.277