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# TFT100 Stable firmware

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<small>FIRMWARE VERSION:</small>	<small>STABLE FIRMWARE</small>	<small>53.02.03 Rev.06</small>	<small>DOWNLOAD</small>
<small>CONFIGURATOR VERSION:</small>		<small>1.7.46, B.35.2, R.11</small>	<small>DOWNLOAD</small>
<small>RELEASE DATE:</small>		<small>2019-01-13</small>	<small>DOWNLOAD FILE</small>

## CHANGELOG

VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
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**55.02.03.Rev.0** 2024-01-1  
**6** 5  
**1.7.66\_B.55.2\_**  
**R.11**

- [ADD] Added CAN Debug feature and CAN Log parameter
- [CHN] Increased DOUT duration limit for Overspeeding, Green Driving, Idling features
- [ADD] Added Odometer parameter for UART, RS232 and RS485
- [REM] Removed CAN and RS485 termination resistor management parameter
- [FIX] Fixed Askoll CAN protocol charge voltage and current I/O parameters visibility, removed malfunction indication I/O
- [FIX] Fixed FLEX CAN protocol parameters duplication
- [ADD] Added Ignition ON Counter feature
- [ADD] Added Separate Manual CAN I/O Reset feature and related parameters
- [CHN] Reduced max sensor size to 64 bytes
- [CHN] Moved Manual CAN baudrate parameter to main CAN I/O section
- [CHN] Changed Manual CAN Settings table and simplified CAN protocol settings
- [CHN] Changed device Wiki links to Teltonika-gps
- [FIX] Fixed BLE Custom I/O Low level maximum value to match valid range by firmware
- [REM] Removed wrong parameter (ID: 740 and 741) tool tips
- [ADD] Added Eye Sensors support
- [FIX] Fixed Roaming/Blacklist CSV file import
- [FIX] Fixed Manual CAN request period max range
- [REM] Removed Manual CAN and Manual J1939 parameters option to leave empty field
- [ADD] Added High resolution vehicle distance and Trip Distance CAN ID and I/O to Default J1939 protocol
- [ADD] Added new Askoll CAN protocol I/O's
- [CHN] Changed Manual CAN Commands interface to table
- [REM] Removed ISO6709 I/O
- [FIX] Fixed Tool Tips inaccuracies
- [FIX] Fixed Online vs Offline configuration discrepancies
- [CHN] Changed Manual CAN I/O and Ignition range Low and High level maximum value range
- [FIX] Fixed J1939 Source Address maximum address to 253
- [FIX] Fixed UART Battery temperature Low level maximum value range
- [FIX] Fixed Ultra Deep Sleep naming mismatch
- [ADD] Added SMS Events functionality
- [FIX] Fixed auto answer (HF) wrong parameter values
- [REM] Removed RS485 Mode selection duplication
- [CHN] Increased DOUT duration limit for Overspeeding, Green Driving, Idling features
- [ADD] Added CAN Debug feature
- [CHN] Changed 0% battery level voltage to 3.3V
- [ADD] Added battery percentage level to battery info SMS
- [ADD] Added Ignition ON Counter feature
- [ADD] Added protection against network stuck reset when device is working from battery and immobilizer scenario might be activated
- [CHN] Improved CAN data reading operation for each available CAN protocol
- [ADD] Added CAN chip sleep when external power is not available or device is in Ultra Deep Sleep
- [ADD] Added Separate Manual CAN I/O Reset feature
- [ADD] Added new Askoll CAN I/O's
- [ADD] Added watchdog timer for CAN task
- [CHN] Improved DOUT control during device's boot-up
- [FIX] Fixed incorrect CAN SMS/GPRS AVL response
- [ADD] Added High resolution vehicle distance and Trip Distance CAN ID and I/O to Default J1939 protocol
- [REM] Removed ISO6709 I/O
- [FIX] Fixed ignition detection with power voltage higher than 65V
- [FIX] Fixed CAN and UART I/O low level range values
- [ADD] Added SMS Events functionality
- [FIX] Fixed AVL ID 239 (Ignition) value not updating in records
- [FIX] Fixed Auto Geofence text field parameter resetting after device reboot
- [ADD] Added Eye Sensors support
- [CHN] Changed CAN None protocol operation - CAN is not configured, CAN task suspended
- [CHN] Reduced 1-Wire startup delay after wake up from UDS
- [ADD] Added DIN2 status to getio command
- [FIX] Fixed setdigout speed command when GNSS fix is not available

**VERSION**

**RELEASE  
DATE**

**CONFIGURATOR CHANGES**

**FIRMWARE CHANGES**

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- [CHN]: Changed Default and Minimum CAN Command period. Changed tooltips.
  - [ADD]: Add timestamp backup description
  - [CHN]: Corrected misleading and outdated tooltips
  - [CHN]: Changed TFT100 default configuration.
  - [ADD]: Added [CAN I/O reset](#) parameter.
  - [ADD]: Govecs FLEX (TFT100) changes were merged into 7.0.33 version.
  - [ADD]: Added AES128 BLE encryption KEY parameter
  - [CHN]: Updated tooltip description for DOUT Deactivation Via DIN
  - [FIX]: Fixed BLE Sensor Custom IO SMS sending with value NaN and displaying as ASCII in Configurator.
  - [FIX]: Fixed device constantly opening and closing GPRS with permanent link if APN is empty in configurator.
  - [FIX]: Fixed permanent link not changing protocol after reconfiguration.
  - [CHN]: Updated FOTA WEB protocol ID 0x04 => 0x05
  - [FIX]: Increased connection interval in order to speed up connection through BLE terminal.
  - [FIX]: Fixed POSI command skipping.
  - [FIX]: Fixing network stability issues.
  - [FIX]: Fixed timestamp not renewing for Eddystone beacons.
  - [FIX]: Added condition to prevent closing socket, if GPRS command is received and response was not sent yet.
  - [FIX]: Fixed issue, when after pin reconfiguration from DOUT to DIN, DOUT stays ON.
  - [FIX]: Fixed periodic CAN command message disabling.
  - [FIX]: Fixed Flex CAN protocol reading 0 values after power is cut off.
  - [FIX]: Fixed Manual CAN commands periodical sending.
  - [CHN]: Changed TFT100 default configuration.
  - [CHN]: Increased external queue size to prevent abnormal restarts during BLE scan.
  - [ADD]: Added [Reset CAN IO values](#) parameter.
  - [FIX]: Fixed CAN message sending irregularities.
  - [FIX]: Fixed J1939 CAN reading recovery after external power is off.
  - [ADD]: Added priority for charger control factory command.
  - [FIX]: Fixed a broken GSM connection due to incorrect SIM card selection.
  - [FIX]: Fixed FOTA WEB fail when the files requested for download do not exist.
  - [FIX]: Fixed lost BLE AES encryption key after reboot.
  - [ADD]: Merged Govecs FLEX changes into base. New configuration 7.0.33 created also.
  - [FIX]: Fixed DOUT delay after ignition detection.
  - [FIX]: Fixed Manual CAN Ignition and Speed I/O's timeout issue
  - [FIX]: Fixed Manual CAN Speed Source I/O's Speed Offset min/max values
  - [ADD]: Added AES128 BLE encryption functionality
  - [FIX]: Fixed Manual CAN I/O triggers with configured operands
  - [FIX]: Fixed GPRS commands sending with TLS encryption
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VERSION	RELEASE DATE	CONFIGURATOR CHANGES	FIRMWARE CHANGES
<b>55.01.02.Rev.02</b> <b>1.6.11_R.30</b>	2021.11.03	<ul style="list-style-type: none"> <li>Parameters for Ignition, Speed extraction from manual CAN messages added.</li> <li>Added immobilizer functionality which is not dependent on ignition.</li> <li>GNSS source parameter mask changed to allow only valid GNSS modes.</li> <li>FLEX protocol functionality added.</li> <li>Manual CAN Commands functionality moved to separate tab.</li> <li>120 Ohm resistor settings added for CAN, RS485 variants.</li> <li>Last know position parameter added.</li> <li>PDOP filter parameters added.</li> </ul>	<ul style="list-style-type: none"> <li>Fixed FW up/downgrade for TFT CAN devices with new Flash component.</li> <li>SMS commands updated. Commands will return time with time zone applied.</li> <li>Fixed minus temperature calculation.</li> <li><a href="#">PDOP filter</a> added.</li> <li>Movement detection tracking fixed.</li> <li>GNSS source parameter only available value can be set.</li> <li>Added Backup tracker scenario.</li> <li>Added <a href="#">speed, ignition source</a> manual CAN functionality.</li> <li>Added immobilizer functionality which is not dependent on ignition.</li> <li>Updated Manual CAN IO value dispaly. The value is cleared after configuration changed.</li> <li>Added <a href="#">FLEX protocol</a> support.</li> <li>Added a time guard if BLE scan job is stuck.</li> <li>Fixed external voltage value representation in battery SMS command response.</li> <li>Added <a href="#">120 Ohm resistor support</a>.</li> <li>Added <a href="#">Last known position</a> parameter added.</li> </ul>
<b>55.00.14.Rev.00</b> <b>1.6.11_R.19</b>	2021.02.03	<ul style="list-style-type: none"> <li>Parameter order in IO section was updated.</li> <li><a href="#">Timestamp backup</a> functionality added.</li> <li>Added possibility to include additional IOs to eventual crash record.</li> <li>Added Endianess, Payload and RTR options to Manual CAN settings.</li> </ul>	<ul style="list-style-type: none"> <li>Added possibility to include additional IOs to eventual crash record</li> <li>Fixed DOUT state after immobilizer.</li> <li>Fixed double iButton scanning issue for immobilizer after sleep.</li> <li>Fixed Crash event value.</li> <li>Added battery percentage value to the SMS</li> <li>Increased compatible beacons count from 25 to 100.</li> <li>Fixed memory leak, when the GPS module is turned on and off frequently.</li> <li>Timestamp backup functionality added.</li> <li>Improved Manual CAN data reading.</li> <li>Beacon detection regarding the timestamp for immobilizer functionality, minimal ignition tmo changed to 5s.</li> <li>Added <i>Request DA</i> parameter to Manual J1939 (availability to send request to specific adress).</li> <li>Added <i>Payload</i> and <i>RTR</i> parameters to Manual CAN (availability to send requests with data).</li> <li>Option to start Manual CAN commands on startup was added.</li> <li>Added command <code>.can_dbg:&lt;1/0&gt;</code>, which turn on/off the additional CAN debug functionality.</li> </ul>

<b>55.00.09.Rev.08</b> <b>1.6.11_R.14</b>	2020.10. 16	<ul style="list-style-type: none"> <li>• Added BMS2 I/O parameters to Bosch CAN protocol;</li> <li>• Added DOUT control via Ignition feature;</li> <li>• Added Manual J1939 protocol;</li> <li>• Added permanent link with server feature;</li> <li>• Added Manual CAN commands functionality;</li> <li>• Added Falldown functionality with autocalibration;</li> <li>• Added Battery level I/O parameter;</li> <li>• Added Battery Charge Mode feature;</li> <li>• Added Beacon selection with Immobilizer feature;</li> <li>• Added functionality to hide DOUT selection near all features if DIN is selected;</li> <li>• Added Manual CAN feature;</li> <li>• Added Default J1939 protocol support with it's I/O parameters.</li> </ul>	<ul style="list-style-type: none"> <li>• Added <a href="#">permanent link with server</a> feature;</li> <li>• Added <a href="#">Manual J1939</a> protocol support;</li> <li>• Improved CAN functionality regarding abnormal restart issue;</li> <li>• Added <a href="#">DOUT control via Ignition</a> feature;</li> <li>• Added e-floater (UART) e-scooter support;</li> <li>• Added BMS2 I/O parameters to <a href="#">Bosch CAN protocol</a>;</li> <li>• Implemented <a href="#">EMCO CAN SMS/GPRS commands</a> (used with Manual CAN protocol);</li> <li>• Improved instant movement calculation in Deep Sleep mode;</li> <li>• Added <a href="#">Manual CAN commands</a> functionality;</li> <li>• Added Govecs e-scooter Bosch protocol lock/unlock/setdigout multi commands;</li> <li>• Added Govecs e-scooter Bosch protocol lock/unlock/openbox CAN commands;</li> <li>• Improved Immobilizer functionality with relay;</li> <li>• Updated Super Soco RS485 SMS response text;</li> <li>• Added <a href="#">Falldown</a> functionality with autocalibration;</li> <li>• Added RS485 restart timeout if no status data is received from Super Soco e-scooter;</li> <li>• Added <a href="#">Manual CAN</a> functionality;</li> <li>• Added <a href="#">Default J1939</a> protocol support;</li> <li>• Added <a href="#">Govecs Schwalbe e-scooter CAN SMS/GPRS commands</a> (used with Bosch CAN protocol).</li> </ul>
<b>55.00.08.Rev.03</b> <b>1.5.15_C.003</b>	2020.04. 10	<ul style="list-style-type: none"> <li>• Optimized Digital Output tool tips;</li> <li>• Optimized UART panel title to be more accurate;</li> <li>• Removed duplicated I/O parameters;</li> <li>• Added RS485 Super Soco protocol;</li> </ul>	<ul style="list-style-type: none"> <li>• Added wake up via DIN1 in Ultra Deep Sleep mode functionality;</li> <li>• Added GoUrban RS485 protocol for Super Soco e-scooter;</li> <li>• Added new TFT100 hardware support;</li> </ul>

<b>55.00.06.Rev.</b> <b>01</b> <b>1.5.0_C.007</b>	2020.02. 07	<ul style="list-style-type: none"> <li>• Implemented an option to select Analog Input Value Range;</li> <li>• Optimized default configuration;</li> <li>• Added DOUT Control Via Call feature;</li> <li>• Added iButton Read Notification and Immobilizer feature;</li> <li>• Added On Demand Tracking feature;</li> <li>• Added new Ignition Source parameters - Accelerometer, DIN1, Power Voltage, CAN;</li> <li>• Implemented DIN/DOUT selection ability;</li> <li>• Added Bosch CAN Powertrain and Askoll protocol selection and I/O's;</li> <li>• Added TFT100 hardware support;</li> </ul>	<ul style="list-style-type: none"> <li>• Optimized Askoll specific commands;</li> <li>• Optimized CAN chip and NAND SPI Chip select synchronization;</li> </ul>
<b>55.00.05.Rev.</b> <b>00</b> <b>1.6.11_R.X</b>	2020.01. 17		<ul style="list-style-type: none"> <li>• Optimized iButton Read Notification feature;</li> <li>• Added DOUT Control Via Call and iButton features;</li> <li>• Added Immobilizer scenario;</li> <li>• Added DOUT Control via Call scenario;</li> <li>• Added new Ignition Source parameters - Accelerometer, DIN1, Power Voltage, CAN;</li> <li>• Implemented the ability to configure DIN/DOUT;</li> <li>• Added FOTA WEB support;</li> <li>• Added Askoll related SMS commands - askoll_unlock, askoll_horn, askoll_tc;</li> <li>• Optimized data reading through CAN interface;</li> <li>• Implemented Bosch CAN Powertrain and Askoll protocols;</li> <li>• Added DOUT protection;</li> <li>• Added base functionality for all modifications;</li> <li>• Added TFT100 hardware support;</li> </ul>