TF1011

Handheld ECU Flashing Tool

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Classic Application:

- After configuration on the PC side, the device can achieve the following functions in a handheld, offline scenario:
- Diagnostic based on UDS protocol
- Flash Bootloader Program Updates based on UDS protocol

Feature Overview

TF1011 is a single-channel Handheld ECU Flashing Tool. In conjunction with the TSMaster software,users can complete the editing of UDS diagnostic processes (typical applications such as UDS flashing procedures) without the need for coding. It supports configuring three sets of flash processes simultaneously, switching between them via buttons.

It features a single CAN FD interface compatible with both CAN 2.0 and CAN FD. It includes programmable terminal resistors, eliminating the need for users to externally connect terminal resistors.

Characteristics

- CAN channel DC2500V isolation
- Built-in configurable 120Ω terminal resistor
- Utilizes a DB9 interface, capable of drawing power from the DB9 interface
- Comes with a matching DB9 to OBD-II cable
- UDS flashing process configured through the graphical interface of TSMaster software, no programming required
- Seamless integration between R&D and production configuration processes
- Permission control (optional): Allows authorized users to remotely update configuration processes
- Supports custom seed key algorithm downloads
- Supports a maximum of three concurrent diagnostic (including FBL flashing) processes, switchable via buttons
- Flashing process message logging (optional)
- Supports Infineon Uart on CAN protocol
- Supports controlling power ports of the component being flashed

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Specification

Channel	1 channel CAN FD
PC Interface	USB 2.0
CAN Interface	DB9, with a matching DB9 to OBD interface cable
Driver	Driverless design for Windows and Linux systems, ensuring system compatibility
CAN	Supports CAN 2.0A, B protocols, compliant with ISO11898-1 specifications, baud rate from 5Kbps to 1Mbps
CAN FD	Supports ISO and non-ISO standard CAN FD, baud rate from 100Kbps to 8Mbps
Timestamp Precision	Message accuracy at 1μs, diagnostic command timestamp accuracy at 10μs
Terminal Resistor	Built-in 120-ohm terminal resistor configurable via software
Isolation	DC2500V isolation for CAN channels, electrostatic contact discharge level at ±8KV
Storage (optional)	Built-in 64GB eMMC storage, recording messages for each diagnostic process
Power Supply	DC 7-18V
Operating Temperature	-40°C to 85°C
Enclosure Material	Aluminum
Dimensions	115mm x 58 mm x 33mm

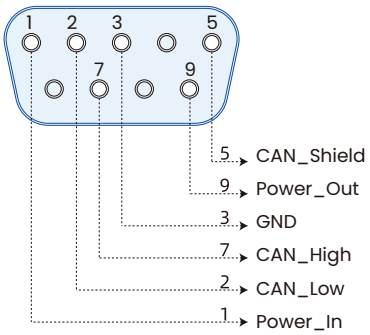
Ordering Information

Product Name	Model Number	Function Description
Network Device	TF1011	Handheld Offline Flashing Tool, 1 channel CAN FD

Shipping list

- TF1011 device
- USB cable
- DB9 to OBD adapter cable

Pin Definitions



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