TOSUN

TF1011

Handheld ECU flashing tool

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 120-ohm 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 t he graphic alinterface of TSMaster software, no programming required
- Seamless integration between R&D and production configuration processes
- Permission control (optional): Allows authorized users toremotely update configuration processes
- Supports custom seed key algorithm downloads
- Supports a maximum of three concurrent diagnostic(including FBL flashing) processes, switchablevia buttons
- Flashing process message logging (optional)
- Supports Infineon Uart on CAN protocol
- Supports controlling power ports of the component being flashed

Specification

Channel	1 channel CAN FD
PC End	USB 2.0
CAN End	DB9, with a matching DB9 to OBD interface cable
Driver	Driver-free design for Windows and Linux systems, ensuring system compatibility
CAN	Supports CAN 2.0A, B protocols, compliant with ISO11898-1 standard, with baud rate 125Kbps-1Mbps
CAN FD	Supports CAN FD that complies with both ISO and non-ISO standards, with baud rates from 125Kbps to 8Mbps
Timestamp	Message accuracy at 1μs, diagnostic command timestamp accuracy at 10 μs
Terminal Resistor	Built-in 120-ohm terminal resistor configurable via software
Isolation	CAN channels isolated up to DC 2500V, electrostatic level contact discharge ±8KV
Storage (optional)	Built-in 64 GB eMMC storage, recording messages for each diagnostic process
Power Supply	DC 7-18V
Operating Temperature	-40°C to 85°C
Casing Material	Aluminum
Dimensions	115 x 58 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
- Dual Magnetic Ring USB Cable *1
- DC 12V 2A power supply adapter *1

Pin Definitions

5 → CAN_Shield
9 → Power_Out
3 → GND
7 → CAN_High
2 → CAN_Low
1 → Power_In