

# **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

Contact Us: +86 21-59560506 <sup>Mailbox:</sup> sales@tosunai.cn



#### **Specification**

| Channel               | 1 channel CAN FD  |  |
|-----------------------|---|--|
|                       | T 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 10 s              |  |
| 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*58 mm*33mm  |  |

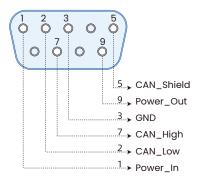
#### **Ordering Information**

| 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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