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Classic Application:

- Vehicle-level CAN (FD)/LIN network data acquisition and analysis
- Simulation, testing, and diagnostics of domain controllers, including cockpit and ADAS
- Automated test systems and endurance test benches
- Vehicle diagnostics, ECU calibration, and flash programming

Feature Overview

The TC1015 is a 2-channel CAN FD and 2-channel LIN interface device supporting CAN FD bus speeds of up to 8 Mbps and LIN baud rates from 0 to 20 kbps. It connects to a PC via USB 2.0 and features a driver-free design for Windows and Linux, ensuring broad system compatibility.

When used with TSMaster, the TC1015 supports DBC and ARXML database files for CAN FD/LIN bus monitoring, analysis, and simulation. It also provides UDS diagnostics, ECU flashing, and CCP/XCP calibration functions.

Included Resources

TSMaster CAN FD/LIN monitoring software
Cross-platform secondary development library with dedicated programming manual

Characteristics

- Microsecond-level hardware timestamps for precise simulation and diagnostics
- USB driver-free design with plug-and-play support for Windows and Linux
- 2500 VDC galvanic isolation per CAN channel
- Automotive-grade design for operation under harsh conditions
- Software-configurable 120 Ω CAN termination
- Software-configurable LIN master/slave modes
- Supports LDF, DBC, and A2L formats, with TSMaster integration
- Supports BLF data logging and playback, UDS diagnostics, CCP/XCP calibration, and Flash Bootloader operations

Specification

Channel	2 × CAN FD, 2 × LIN
PC Interface	USB 2.0
Timestamp Precision	1 μs hardware message timestamp
Driver	Cross-platform, driver-free design
Connector	Standard D-Sub, 9-pin
License	Supports all TSMaster paid licenses
Power Supply	USB-powered (LIN also supports external power)
Power Consumption	2 W
ESD Protection	±4 kV contact discharge, ±8 kV air charge
Enclosure Material	Metal
Dimensions	Approx. 113 × 98 × 38 mm
Weight	Approx. 248 g
Operating Temperature	-40°C ~ +80°C
Operating Humidity	10% ~ 90% RH (no condensing)

CAN / CAN FD

Connection Standard	High-speed CAN (ISO 11898-2 compliant)
Supported Protocols	Full support for CAN and CAN FD (ISO 11898-1 compliant)
CAN Baud Rate	125 kbps ~ 1 Mbps
CAN Frame Data Length	Up to 8 bytes
CAN FD Baud Rate	125 kbps ~ 8 Mbps
CAN FD Frame Data Length	Up to 64 bytes; supports BRS frames
Max Frame Rate	Transmit: 20,000 frames/s; Receive: 20,000 frames/s (single channel, 1Mbps, remote frame, 0 data bytes)
Termination Resistor	120 Ω per CAN channel
Relay Type	Magnetic latching relay

LIN

Connection Mode	Master/Slave
Baud Rate	4.8 kbps ~ 20.0 kbp
Supported Protocols	LIN 1.3, LIN 2.0, LIN 2.1, LIN J2602
Schedule Table External	Supports LDF schedule tables; load, create, and configure directly
Power Supply	Supported, 12 V ~ 36 V input range

Ordering Information

Product Name	Model Number	Function Description
Network Device	TC1015	2 CAN FD and 2 LIN interface

Shipping list

- TC1015 device
- USB cable
- DB9 female to dual male signal cable (CAN)
- DB9 to 5 banana LIN cable
- TSKT02 mounting bracket (Optional)

Pin definition