

## TC1054 Pro

### Automotive Ethernet / CAN FD / LIN Simulation Test Tool



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#### Classic Application:

- Automotive ethernet residual bus simulation
- Automotive ethernet data monitoring and analysis
- Automotive ethernet communication testing
- ECU Flashing (based on UDS or DoIP)
- ECU-level and system-level automated testing
- Automotive ethernet to CAN FD gateway application

### Feature Overview

TC1054Pro is a multi channel automotive Ethernet/CAN FD/LIN bus test device. It connects to a computer via 10G Ethernet, 1000Base-T, or USB 3.0 / 2.0 interfaces and uses TSMaster software for network analysis, simulation, testing, validation, as well as functionalities such as DoIP and SOME/IP.

### Characteristics

- 4 channels of 100/1000Base-T1, switchable via software at any time
- 4 channels of CAN FD/CAN, 2 channels of LIN
- LED indicators for automotive/standard Ethernet working status
- LED indicators for system status, including speed, Master/Slave, and USB status
- Automotive-grade design, supporting ARXML file loading in TSMaster for parsing automotive Ethernet messages
- Supports DoIP and SOME/IP
- LIN bus master/slave nodes can be configured via software
- Supports LDF, DBC, ARXML, and other database files through TSMaster software
- Supports BLF and ASC format data logging and online/offline playback
- Supports UDS diagnostics and Flash Bootloader for CAN FD/CAN/LIN
- Provides Windows API interface for secondary development, supporting RAW format Ethernet message transmission/reception with timestamps and transmission completion events, as well as CRC modification
- Example projects based on API interface provided for easy secondary development
- Supports hardware time synchronization between multiple devices
- Supports Digital IO\*4/AIAO \*3

## Specification

Channel	4 x 100/1000Base-T1, 2 x LIN, 4 x CAN FD
PC End	10G Ethernet / 1000Base-T / USB 3.0
T1 Interface	TE MATEnet or converted to Rosenberger H-MTD via cable
Driver	Driver-free design for Windows 10/11/7 systems
Timestamp	1µs hardware message timestamp
T1 Isolation	Network transformer / capacitive isolation
CAN	Supports CAN2.0A and B protocols, compliant with ISO11898-1 standard, baud rate 125Kbps to 1Mbps
CAN FD	CAN FD supports both ISO and non-ISO standards, baud rate 125Kbps to 8Mbps
LIN	Supports LIN 1.3 and 2.0, baud rate 0 to 20Kbps
Termination Resistor	120 ohm software-configurable for CAN
CAN Isolation	DC 2500V
Power Supply	DC 9-36V
AIAO Features	Input Voltage: 0-36V / Output Voltage: 0-30V
Digital IO	Input Range : 0-40V / Output Voltage : 5/12V@100mA
Operating Temperature	-40°C to 80°C

## Ordering information

Product Name	Model Number	Function Description
Network Device	TC1054Pro	4 channels of 100/1000Base-T1, 4 channels of CAN FD, 2 channels of LIN bus interfaces to 10G Ethernet/1000Base-T/USB 3.0 device