TOSUN

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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

The TC1055 Pro is a versatile simulation and testing tool for multi-bus automotive communication systems, supporting CAN, LIN, and Automotive Ethernet.

TSMASTER

## Characteristics

- µs (microsecond) level hardware message timestamps to meet advanced requirements
- Driverless design for Windows and Linux systems
- Support for DIDO (Digital Input/Output) and AIAO (Analog Input/Output)
- Configurable CAN bit rate from 125 Kbps to 1 Mbps; CAN FD supports up to 5 Mbps
- LIN master/slave node configuration via software
- Ethernet link state indication for Automotive Ethernet channels
- Automotive-grade design, supports Ethernet frame parsing from ARXML files in TSMaster
- Software-configurable 120Ω termination resistors for CAN channels
- Supports BLF and ASC data recording formats, with online.offline playback functionality
- Supports DoIP and SOME/IP protocols
- Bypass mode for Automotive Ethernet
- Hardware time synchronization across multiple devices

## Specification

| | |
|---|---|
| Channel | 4 x 100/1000 Base T1 / 2 x Base-Tx/1000Base-T /<br>4 x CAN/CAN FD / 2 x LIN / 4 x DIDO / 3 x AIAO |
| PC Interface | 1000Base-T / USB 3.0 / 10G Ethernet |
| CAN/LIN Interface | DB9 Male |
| I/O Interface | DB9 Female |
| Automotive ethernet Interface | TE MATEnet or via cable converted to Rosenberger H-MTD / RJ45 |
| Driver | Driverless design for Windows and Linux |
| Buffer | Each channel supports a transmit buffer of up to 1000 CAN frames |
| CAN | Supports CAN 2.0 A and B protocols, compliant with the ISO 11898 1 standard,<br>with baud rates from 125 Kbps to 1 Mbps |
| CAN FD | Supports CAN FD that complies with both ISO and non ISO standards,<br>with baud rates from 125 Kbps to 5 Mbps |
| LIN | Supports LIN 1.3/2.0/2.1/J2602, with baud rates from 0 to 20 Kbps |
| Timestamp Accuracy | 1 µs hardware message timestamp |
| Terminal Resistor | Built in 120 ohm terminal resistor, software configurable |
| Isolation (CAN) | CAN channel DC 2500 V isolation |
| AIAO | AI: 0 ~ 10 V / AO: 0 ~ 10 V |
| DIDO | DI: 0 ~ 40 V / Vref: 0 ~ 5V,<br>Threshold range: VAH=(500+499*Vref)/1098; Val=0.455*Vref<br>DO: Low 0V, high 5V/12V (no load support) |

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## Ordering information

| Product Name | Model Number | Function Description |
| --- | --- | --- |
| Network Device | TC1055Pro | Automotive Ethernet / CAN FD / LIN Simulation Test Tool |