

TC1038 Pro

12 channels of CAN FD/LIN



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Classic Application:

- CAN/LIN/ Interface for Data Acquisition
- Domain controller testing
- Various automated testing systems
- Bench testing and calibration

Feature Overview

The TC1038 Pro is a multi bus simulation and testing tool developed by TOSUN, supporting CAN/CAN FD, LIN buses. It features 12 CAN/CAN FD channels with adjustable baud rates from 125 Kbps to 1 Mbps for CAN and up to 8 Mbps for CAN FD. The 12 LIN channels can be configured as master or slave nodes via software, supporting baud rates from 0 to 20 Kbps. Additionally channels utilize dual wire redundancy for data transmission, offering extremely low latency and a flexible bandwidth allocation mechanism, supporting various data types and diverse topologies.

TC1038 Pro connects to a PC via Ethernet, ensuring high data transmission speed and preventing communication bottlenecks when handling large volumes of bus data. It features a driverless design for Windows, offering excellent system compatibility.

With the powerful TSMaster software, it supports loading DBC, LDF, XML, ARXML, etc. database files, making it very convenient to monitor, analyze, and simulate various types of bus data, and it also supports functions such as UDS diagnostics, ECU flashing, CCP/XCP calibration, etc.

Product Features

- μ s (microsecond) level hardware message timestamps to meet advanced requirements
- Driverless design for Windows system
- CAN channel baud rate adjustable from 125 Kbps to 1 Mbps, and CAN FD supports a maximum of 8 Mbps
- LIN bus master/slave mode configurable via software
- CAN supports Self ACK self acknowledgment configuration
- Supports blf and asc format data recording and offline/online playback
- Supports hardware time synchronization across multiple device
- Provides API based sample projects for easy secondary development



Specification

Channel	12 x CAN FD / 12 x LIN / 4 x DIDO / 3 x AIAO
PC Interface	RJ45 Ethernet
CAN Interface	DB37 male
LIN Interface	DB9 male
I/O Interface	DB9 female
Driver	Driver-free design for Windows system, with excellent system compatibility
Buffer	Each channel supports a transmit buffer of up to 1000 CAN frames
CAN	Supports CAN2.0A and B protocols, compliant with ISO11898-1 standard, baud rate 125 Kbps to 1 Mbps
CAN FD	Supports CAN FD that complies with both ISO and non ISO standards, with baud rates from 125 Kbps to 8 Mbps
LIN	Supports LIN 1.3/2.0/2.1/J2602 , baud rate 0 ~ 20 Kbps
Timestamp Accuracy	1 μ s hardware message timestamp
CAN Terminal Resistor	Built in 120 ohm terminal resistor for CAN, configurable via software
Isolation	CAN/ channel DC 2500 V isolation
DIDO	DI: 0 ~ 40 V Vref: 0 ~ 3.3 V, Threshold range: $VAH=(330+499*Vref)/1098$; Val=0.455*Vref DO: Low level 0 V, high level 5 V/12 V (use with load unsupported)
AIAO	AI: 0 ~ 39 V AO: 0 ~ 30 V
Power Supply	DC power supply
Power Consumption	10 W
Case Material	Metal
Dimension	Approx.210 x 118 x 47 mm
Weight	Approx. 878 g (without packaging)/ Approx. 2110 g (with packaging)
Operating Temperature	-40°C ~ 70°C
Operating Humidity	10% ~ 90% (non-condensing)
Operating Environment	Keep away from corrosive gases

Ordering information

Product Name	Model Number	Function Description
Network Device	TC1038 Pro	12 channel CAN FD, 12 channel LIN bus analyzer

Shipping list

- TC1038 Pro device
- DC 12V 2A Power Adapter
- Cat 6 Gigabit Ethernet cable
- DB37 female to 12 way DB9 signal cable
- DB9 to nine banana LIN cable x 2
- DB9 male



12V 2A Adapter



Cat 6 Cable



DB9 male



DB9 to 9 Banana Plug



DB37 to DB9 cable

Pin definition

- Left: I/O
- Center: LIN 7-12
- Right: LIN 1-6

