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PM-300

The Power to Log

The PM-300 is the first member of a new generation of data loggers from TTTech Auto and the successor to the PM-200 data logger.

The PM-300 data logger provides an all-in-one solution for logging modern vehicle networks and aims to improve and accelerate testing, validation and design of modern vehicles. It not only captures data from traditional automotive interfaces CAN (FD + SIC), LIN, Flex Ray, etc., but also data from automotive Ethernet interfaces according to the latest industry standards.

In spite of its compact size, it offers high processing power and large data bandwidth. The data logger allows recording speed up to 10Gb/s. Its built-in "high-capacity SSD" allows it to record short campaigns, but it can also use an external storage module to expand the recording capacity for a long test drive.

Thanks to its flexibility, programmability and support for debugging protocols, it meets the demanding requirements of functional and fleet testing as well as test runs. PM-300 enables fast data evaluation and distribution and is the best solution for data logging.

KEY BENEFITS

- The solution for complete vehicle network: logging data from traditional interfaces (CAN FD, LIN, FlexRay), and Automotive Ethernet
- Straightforward upgrade route for the existing TTTech data logger devices
- Multiple use cases: Fleet testing, HIL simulations, Lab testing, Testing vision-based ECUs (autonomous driving)
- Flexibility - expandable and future-proof solution supporting high data bandwidth
- Forward Data in real-time (TAP functionality)
- Precise measurements & data timestamps (less then 100 nanoseconds)
- The smallest high- performance data logger on the market
- Easy-to-use, hassle-free configuration

PROCESSING AND HANDLING DATA

- High data rates supported via 10Gb/s backbone
- 1TB Internal Storage
- Support CMP Protocol
- Live data forwarding via PCIe or 10GbE

DIAGNOSTIC PROTOCOLS

- Support of XCP/CCP
- Diagnostic Log and Trace (DLT) as standardized by AUTOSAR
- ESO-Tracing, GN log, ConMod, Serial log

FILTER, TRIGGER, CLASSIFICATION FUNCTIONS

- Parallel to optional “get-it-all” logging, based on signal or bus
- Logging and analysis for all interfaces
- Trip recorder functions for periodic and results based data logging
- Automatic and conditional data logging via defined trigger conditions
- Statistical data analysis with global (persistent) and measurement-related data in 3 dimensions

CONTROL AND DATA VISUALIZATION VIA WLAN

- Mobile application for control and configuration
- Freely configurable, real-time presentation of signals while logging
- Support for Windows & Android Data transfer over optional Wi-Fi module

GPS DATA

- Flexible selection of GPS device (connect via USB)
- Logging of GPS data (position, time and speed) with configurable update rate

DEVICE SPECIFICATIONS

PC INTERFACES	4 x USB 3.0 Super Speed / Master (Can be used as Logging Medium) 2 x Ethernet 10/100/1000 Mb/s 2 x Ethernet 10Gb/s (live forward and copy data) 1 x PCIe (copy data)
VEHICLE INTERFACES	11 x CAN FD 16 x LIN 1 x FlexRay (channels A/B) 6 x analog inputs (12 Bit) 2 x analog outputs 6 x RS232
AUTOMOTIVE ETHERNET	12 Ports supporting both 100BASE-T1 and 1000BASE-T1
OPERATING TEMPERATURE	-40°C to +70°C
POWER CONSUMPTION	Operating mode max 3.8A Sleep mode (active) max. 1.2A Sleep mode (passiv) max. 26mA
OPERATING VOLTAGE RANGE	8.5V - 52V
DIMENSIONS	224 x 175 x 72 mm (L x W x H)
WEIGHT	1.6kg
OPTIONS	PM-300 Extended protocols (Eso trace, XCP, CCP, GN log, Serial log) PM-300 FTC PM-300 DLT PM-300 Visualization PM-300 Audio data logging PM-300 GPS data logging