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 and camera sensors 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 12Gb/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), Automotive Ethernet and cameras

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

The possibility to use third party tools

COMPREHENSIVE FEATURE SET

Processing and handling data

High data rates supported via 12Gb/s backbone

1TB Internal Storage

Support CMP Protocol

Live data forwarding via PCIe or 10GbE

Diagnostic Protocols

XCP/CCP over FlexRay, CAN, CAN-FD, Ethernet

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

GPS data

Collect GPS data with Pulse per second for precise time stamping

Vehicle cameras

Record raw video data along with ground truth data

FPD-Link III camera interfaces

Built-in Image Signal Processor to make images available on a PC in real-time

Synchronous frames capturing on all cameras

Playback recorded data

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

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	Max Consumption (all ON) 3.8A / Min Consumption (passive standby) 26mA
OPERATING VOLTAGE RANGE	8.5V - 52V
DIMENSIONS	224 × 175 × 72 mm (L x W x H)
WEIGHT	1.6kg
OPTIONS	PM-300 Extended protocols
	PM-300 Automotive Ethernet
	PM-300 FTC
	PM-300 DLT
	PM-300 XCP/CCP
	PM-300 Visualization incl. WL AN
	PM-300 Audio
	PM-300 ADAS Camera
	PM-300 GPS
	PM-300 CMP

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For further information, including price and availability, contact **products@tttech-auto.com**

TTTech Auto AG
Europe, Austria (Headquarters)
Phone: +43 1 585 65 38-5000

Germany
Phone: +49 841 88 56 47-0

TTTech Japan
Phone: +81 52 485-5898

TTTech China
Phone: +86 21 5015 2925-0