# PM-350

# Automotive Data Logger for SDV Testing

# → tttech auto

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The PM-350 is a new addition to the Automotive Data Logger family for Software-Defined Vehicle (SDV) verification and validation, and the latest evolution of our PM-200.

This automotive data logger represents the latest advancement in capturing high-speed automotive Ethernet, ensuring vehicle safety by freedom from interference on the communication level. In addition, it supports the logging of traditional interfaces, including CAN FD, LIN, and FlexRay.

The PM-350 data logger can be equipped with two NVMe M.2 SSDs, each offering up to 4TB of industrial grade storage. The hot swap feature allows users to easily remove the SSD during active logging without any disruption or data loss. Additionally, the M.2 storage technology ensures high recording rates while minimizing power consumption.

Fully programmable with an open API and diagnostic protocol support, the PM-350 excels in SDV functional testing, fleet management, and test drives, offering customizable integration and control. Its software-defined device configuration enables remote data analysis and distribution, enhancing agility and reducing testing costs.

## **KEY BENEFITS**

High-speed data logging via Automotive Ethernet 100/1000Base-T1 Capturing data via Ethernet up to 10GBase-T

Ensures precise, synchronized data capture with centralized timestamp resolution below 100 ns

Provides uninterrupted flexibility with hot-swappable removable storage

Enables robust diagnostics with standard protocols like DLT over IPv4 and IPv6

Facilitates fast data analysis and sharing through Remote Data Logger & Fleet Management

Cascading multiple devices with unique timestamps

# PROCESSING AND HANDLING DATA

Recording speed of up to 12Gb/s (preliminary)
Two slots for M.2 SSDs up to 4TB of industrial grade
Hot sSwap during active logging without any disruption or data loss
Data logging via 10GBase-T interface

## DIAGNOSTIC PROTOCOLS

- Support of XCP over Ethernet / CAN / CAN FD / FlexRay
- ESO-Tracing, GN log
- Diagnostic Log and Trace (DLT) via IPv4 and IPv6





# 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 (virtual remote control)
- Freely configurable, real-time presentation of signals while logging
- Support for Windows & Android devices

#### GPS DATA

- Flexible selection of GPS devices (connect via USB)
- Logging of GPS data (position, time and speed) with a configurable update rate
- Synchronization system time for precise timestamping

# REMOTE AND FLEET MANAGEMENT

- Download, update and activate data logger configuration
- Data logger monitoring and health check
- Remote access to filtered data during test drives

# DEVICE SPECIFICATIONS

PC INTERFACES	4 x USB 3.0 (as Logging Medium) 2 x Ethernet 100/1000 Base-T	
VEHICLE INTERFACES	14 x CAN FD  10 x LIN  1 x FlexRay (channels A/B)  4 x analog inputs (12 Bit)  2 x analog outputs  10 x RS232  1x Ethernet 10GBase-T	
AUTOMOTIVE ETHERNET	4 Ports switchable 100BASE-T1 or 1000BASE-T1	
OPERATING TEMPERATURE	-40°C to +70°C	
POWER CONSUMPTION	Operating mode max 4.5A@12V (preliminary) Sleep mode (passiv) max. 29mA@12V (preliminary)	
OPERATING VOLTAGE RANGE	6V to 32V (preliminary)	
DIMENSIONS	200 x 280 x 80 mm (L x W x H)	
ORDERING INSTRUCTIONS	HARDWARE  15162 PM-350 Automotive Data Logger  15066 PM-350 PS-0S (Empty cartridge for SSD)  15312 Option - 1 TB SSD Industrial Grade  15315 Option - 4 TB SSD Industrial Grade  15308 Option - Cable Harness Connector A  15309 Option - Cable Harness Connector B  15310 Option - Cable Harness CAN  15311 Option - Automotive Ethernet Cable Harness  13292 Quick Mounting Kit	SOFTWARE  15277 Option - Visualization  15278 Option - Extended protocols (XCP, GNLog)  15279 Option - FTC  15280 Option - DLT  15281 Option - Audio data logging  15282 Option - Video data logging  15283 Option - GPS data logging