

Document Information			
Model	V900	Product Type	Handheld OBD-II/EOBD Code Reader
Document Version	v1.1	Last Updated	2026-02-06
Hardware Version	V1.1	Release Date (spec)	2025-04-07

Overview
 V900 is a handheld OBD-II/EOBD code reader designed for passenger vehicles. It supports nine standard OBD-II/EOBD protocols and provides essential emissions/engine diagnostic functions through the vehicle's standard 16-pin DLC/OBD port.

Purpose of Document
 This document summarizes key technical parameters and supported functions for product listings, integration reference and incoming inspection. MCU: APM32E103VET6 (LQFP100). FW: V1.00.250417.



OBD Diagnosis
 Read/Clear DTCs, Freeze Frame, I/M Readiness, VIN/CALID/CVN

Live Data (600+)
 600+ items with graphing / Real-time Curve display

DTC Library (40,000+)
 Built-in lookup + DTC repair guidance for selected brands

Multi-Module
 Multi-module diagnostics via OBD-II CAN (selected vehicles)

Cloud Print (QR)
 Generate QR code for scan/print/share via mobile phone

Battery & Shortcuts
 Battery start-up test; I/M & DTC shortcut keys

Physical Specifications
 190 × 100 × 31 mm
 Weight: 380 g (tool) / 495 g (with pkg)
 2.8" TFT Color Screen | 11 Languages

- Key Functions (Complete List)**
- Read DTC / Clear DTC / turn off MIL
 - Vehicle Info (VIN / CALID / CVN)
 - O2 Sensor test (where supported)
 - AutoVIN (major brands)
 - Cloud Print via QR code
 - Multi-module (OBD-II CAN)
 - Freeze Frame (emissions snapshot)
 - Live Data Stream (600+ items)
 - Mode 6 on-board monitor test
 - DTC Lookup (40,000+ entries)
 - Battery start-up test / voltage
 - 11-language UI
 - I/M Readiness status display
 - Real-time Curve / graphing display
 - Mode 8 EVAP test (where supported)
 - DTC repair guidance (selected brands)
 - I/M & DTC shortcut keys

- Supported OBD-II Protocols (9 Protocols)**
- SAE J1850 PWM (41.6 Kbaud)
 - ISO 14230-4 KWP (5 baud init, 10.4 Kbaud)
 - ISO 15765-4 CAN (29-bit ID, 500 Kbaud)
 - SAE J1850 VPW (10.4 Kbaud)
 - ISO 14230-4 KWP (fast init, 10.4 Kbaud)
 - ISO 15765-4 CAN (11-bit ID, 250 Kbaud)
 - ISO 9141-2 (5 baud init, 10.4 Kbaud)
 - ISO 15765-4 CAN (11-bit ID, 500 Kbaud)
 - ISO 15765-4 CAN (29-bit ID, 250 Kbaud)

- Supported Vehicle Data (examples – availability varies by model year/ECU)**
- Diagnostic Trouble Codes (DTC) read
 - Calculated load value
 - Vehicle speed
 - Intake manifold pressure
 - Mass air flow rate (MAF)
 - Fuel pressure / consumption (if suppt.)
 - Clear DTC / turn off MIL
 - Coolant temperature
 - Short-term fuel trim (STFT)
 - Ignition timing advance
 - Throttle absolute position
 - Engine RPM
 - Fuel system status
 - Long-term fuel trim (LTFT)
 - Intake air temperature
 - O2 sensor parameters (if supported)
- Note: Supported items vary by vehicle model year/ECU; actual availability prevails.*

Interface Definition (OBD-II 16-pin)

Pin	Signal	Pin	Signal
1	Reserved	9	Reserved
2	J1850+	10	J1850-
3	Reserved	11	Reserved
4	Chassis ground	12	Reserved
5	Signal ground	13	Reserved
6	CANH	14	CANL
7	KLINE	15	LLINE
8	Reserved	16	Power

Note: Actual signals used depend on the vehicle protocol. Pins not used by the vehicle may be unpopulated or inactive.

Technical Specifications

Model	V900
Product type	Handheld OBD-II/EODB code reader
Hardware version (spec)	V1.1
Release date (spec)	2025-04-07
Main control MCU	APM32E103VET6 (LQFP100)
Display	2.8" TFT color screen
Power supply	DC 9-16 V (vehicle DLC)
Working current	40-60 mA
Standby current	50 mA (spec.)
Operating environment	-20 to 60°C
Storage temperature	-20 to 60°C
Dimensions (L×W×H)	190 × 100 × 31 mm
Weight	380 g (with package 495 g, spec.)
Vehicle interface	16-pin OBD-II male connector
UI languages	EN/DE/FR/ES/IT/RU/NL/ZH/JA/PT/PL (11)

Firmware/Program version (spec): V1.00.250417

Packaging

Inner box: 126 × 65 × 251 mm
Outer carton: 52 × 41.5 × 40.5 cm
Qty/carton: 36 pcs

UI Languages (11)

- English
- Français
- Italiano
- Dutch
- Japanese
- Polish
- Deutsch
- Español
- Russian
- Chinese
- Português

Transport & Storage

- Clean, ventilated, cool, dry; prevent moisture.
- Transport in carton; avoid vibration/shock/sun/rain.
- Handle with care; keep packaging intact.

Safety & Precautions

- ▶ Do not use abrasive cleaners to clean the product.
- ▶ Avoid long-term direct sunlight exposure.
- ▶ Do not use in rain or wet/high-humidity environments.
- ▶ Operate only within DC 9-16 V (vehicle DLC power).
- ▶ Keep away from heat sources and open flames.
- ▶ Do not disassemble or modify; no user-serviceable parts.
- ▶ Store in dry environment; avoid extreme temp. and dust.

Notes & Disclaimer

- This product is **not compatible** with new energy vehicles, hybrid vehicles, or models that do not comply with the OBD2 protocol.
- Available functions and data items depend on the vehicle ECU, model year and region; some items may display N/A or may not be available.
- Information in this document is provided for reference and may be updated without notice.