

Document Information			
Model	V519 Plus	Product Type	Handheld OBD-II/EOBD Code Reader
Document Version	v1.0	Last Updated	2026-02-06
Hardware Version	V1.1	Release Date (spec)	2025-11-27

Overview

V519 Plus 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. Program version (spec): V1.00.251124.



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

Live Data & Curve/Gauge
List view, real-time curve, and gauge display (vehicle-dependent)

Mode 6 / O2 / Mode 8
On-board monitoring, O2 Sensor test, EVAP/Component test

DTC Library (35,901)
Built-in lookup; includes some manufacturer-specific definitions

Cloud Print (QR)
Share/print DTC results via mobile phone QR scan (firmware-dependent)

Shortcut Keys & Voltage
F1/F2 shortcut keys; battery voltage check; status LED indicators

Physical Specifications
155 × 87 × 24 mm
Weight: 253 g (tool only)
2.8" Color Screen (240 × 320)

- Key Functions (Complete List)**
- Read DTCs / Clear DTCs / turn off MIL
 - Vehicle Info (VIN / CALID / CVN)
 - O2 Sensor Test (vehicle-dependent)
 - DTC Lookup Library (35,901 entries)
 - Shortcut keys F1/F2
 - Freeze Frame Data
 - Live Data Stream (list / curve / gauge)
 - EVAP / Component Test (Mode 8)
 - Cloud Print / QR code sharing
 - Status indicators (DTC/link fail/success)
 - I/M Readiness Check
 - On-board Monitor Test (Mode 6)
 - Playback/Review saved DTC & data records
 - Battery voltage check

- 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)**
- Diagnostic Trouble Codes (DTC) read
 - Calculated load value
 - Vehicle speed
 - Intake manifold pressure
 - Mass air flow rate (MAF)
 - Fuel pressure / consumption (if supported)
 - 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	V519 Plus
Product type	Handheld OBD-II/EOBD code reader
Hardware version (spec)	V1.1
Release date (spec)	2025-11-27
Main control MCU	APM32E103VET6
Display	2.8" color screen
Resolution	240 × 320
Power supply	DC 9-16 V (vehicle DLC)
Working current	56-84 mA
Standby current	70 mA (spec.)
Operating environment	-20 to 60°C
Storage temperature	-20 to 60°C
Dimensions (L × W × H)	155 × 87 × 24 mm
Weight	253 g (tool only, spec.)
Vehicle interface	16-pin OBD-II male connector
UI languages	EN/DE/FR/ES/IT/RU/NL/ZH/JA/PT (10)
Program version (spec)	V1.00.251124

📦 Packaging Information

Inner box: 200 × 130 × 43 mm
Outer carton: 54 × 42 × 23.5 cm
Qty per carton: 40 pcs
Unit weight: 253 g (tool only)

🚚 Transportation & Storage

Storage: Clean, ventilated, cool and dry place; protect from moisture.
Transport: In packaging carton; prevent vibration, shock, squeezing, sunlight, rain.
Handling: Handle with care; keep packaging clean and intact.

🌐 UI Languages (10)

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

⚠️ 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 temperatures 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.