

Document Information			
Model	V600	Product Type	Handheld OBD-II/EOBD Code Reader
Document Version	v1.0	Last Updated	2026-02-06
Main MCU	APM32E103VET6 (LQFP100)	Display	2.8" color screen (240 × 320)

Overview
 V600 is a handheld OBD-II/EOBD code reader designed for passenger vehicles. It supports nine standard OBD-II/EOBD protocols and provides engine/emissions 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. Actual function coverage may vary by vehicle and firmware version.



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

Live Data Stream
 Real-time engine parameters (vehicle-dependent)

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

AutoVIN (12+ Makes)
 BMW, Mercedes, VW/Audi, Toyota, Honda, GM, Ford, etc.

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

Shortcut Keys
 I/M and DTC shortcut keys; battery voltage detection

Physical Specifications
 178 × 90 × 26 mm
 Weight: 286 g (tool) / 412 g (with pkg)
 2.8" Color (240×320) | Tri-color LED

- Key Functions (Complete List)**
- Read DTC / Erase DTC / turn off MIL
 - Vehicle Info (VIN / CALID / CVN)
 - Mode 6 on-board monitor test
 - DTC Solution (selected brands)
 - I/M & DTC shortcut keys
 - 2.8" color display (240×320)
 - Freeze Frame (emissions snapshot)
 - Live Data Stream (vehicle-dependent)
 - Mode 8 component test
 - Cloud Print via QR code
 - AutoVIN / brand recognition
 - 11-language UI
 - I/M Readiness status display
 - O2 Sensor test (where supported)
 - DTC Lookup (40,000+ entries)
 - Battery voltage detection
 - Tri-color indicator (R/O/G)

- 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 and ECU)**
- DTC read / clear (MIL off when allowed)
 - Coolant temperature
 - Short-term / Long-term fuel trim
 - Intake air temperature
 - O2 sensor voltage (where supported)
 - Engine RPM
 - Fuel system status
 - Intake manifold pressure
 - Mass air flow rate
 - Fuel pressure
 - Calculated load value
 - Vehicle speed
 - Ignition timing advance
 - Throttle position
 - Fuel consumption monitoring (if suppt.)

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	CAN-H	14	CAN-L
7	K-line	15	L-line
8	Reserved	16	Battery power

Standard 16-pin OBD-II male connector. Pin definitions as listed above.

Technical Specifications	
Main MCU	APM32E103VET6 (LQFP100)
Working voltage	DC 9-16 V
Operating current	37-57 mA
Standby current	30 mA
Communication	OBD-II (vehicle DLC); internal serial communication
Operating temperature	-20 to 60°C
Storage temperature	-20 to 60°C
Dimensions	178 × 90 × 26 mm
Weight	286 g (tool only); 412 g (with packaging)
Display	2.8" color screen, 240 × 320
Menu languages	EN/DE/FR/ES/IT/RU/NL/ZH/JA/PT/PL (11)

Packaging
Retail: 193 × 39 × 235 mm
Outer carton: 48.3 × 37.5 × 41.3 cm
Qty/carton: 36 pcs

Menu Languages (11)	
<ul style="list-style-type: none"> English Français Italiano Dutch Japanese Polish 	<ul style="list-style-type: none"> Deutsch Español Russian Chinese Português

Transport & Storage
<ul style="list-style-type: none"> Clean, dry, ventilated; prevent moisture. Ship in cartons; avoid vibration/shock. Protect from rain, sunlight, contamination.

Reliability & Vehicle Tests (summary)
<ul style="list-style-type: none"> High/low temp test (60°C / -20°C, 12h): OK Power interruption / switching: OK Stability test (24h continuous): OK Vehicle verification (multiple models): All OK
<p>Vehicle examples tested (all OK):</p> <p>Buick GL8 (2009/2017) • Audi A6 (2019), A8 (2013), A3 (2010) • VW Tayron (2023), Polo (2017), Sagitar (2013), Jetta (2010), Touran (2011) • Toyota Corolla (2016), Levin (2023) • BMW X1 (2011) • Honda CR-V (2017), Fit (2014), Odyssey (2016) • Mercedes CLS300 (2012) • Chevrolet Malibu (2014) • Ford Kuga (2017) • Suzuki Swift (2012)</p>

Safety & Precautions
<ul style="list-style-type: none"> Do not use abrasive cleaners to clean the product. Avoid long-term direct sunlight exposure. Do not use in rain or wet environments. Do not operate while driving. Use when safely parked. Do not heat or place near fire sources (e.g., cooking stove). Do not disassemble or modify; no user-serviceable parts. Store in dry environment; avoid extreme temp. and dust.

Notes & Disclaimer
<ul style="list-style-type: none"> Functions and data items are vehicle-dependent. A 16-pin connector does not guarantee full OBD-II/EOBD support on all vehicles/regions. Clearing DTCs does not repair the underlying fault. If the fault remains, the MIL/DTC may return after a drive cycle. Information in this document is provided for reference and may be updated without notice.