

Tekion Connected Car Device-CCD

User Manual



PN: CCD-V1

22 Nov 2022

Contents

1. Overview	3
2. Contents in the Box	3
3. Product overview	3
4. Product Specifications	3
5. On-Board battery charging option.....	4
5.1 Charging through Wireless Pad.....	4
5.2 Charging through USB	5
5.3 Charging through OBD.....	5
6. Led Indications.....	5
7. OBD Power ON/OFF	6
7.1 Power ON.....	6
7.2 Power OFF.....	6
8. Device Provisioning.....	6
9. Modes of operation	7
10.Torch Led Indication	7
11.Safety and Precautions.....	7
12.FCC Warning	8

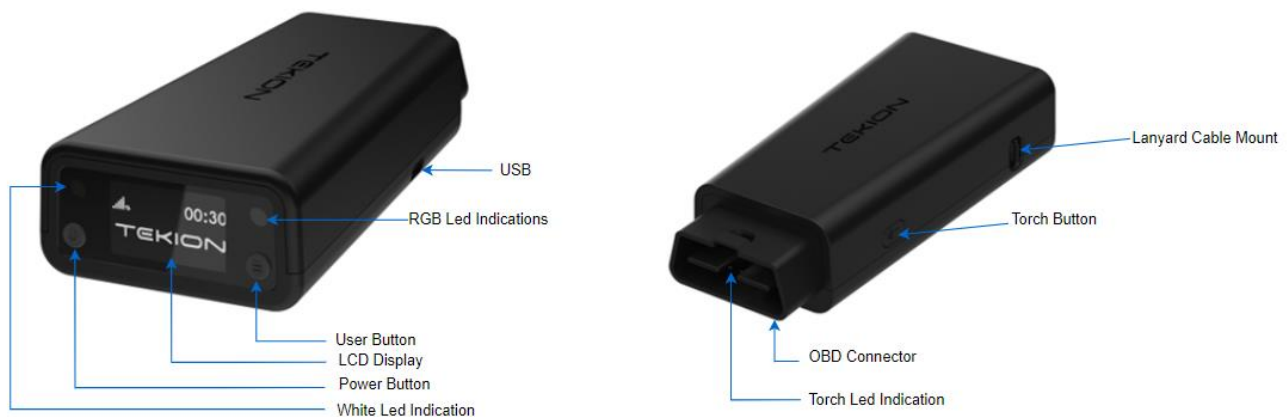
1. Overview

OBDII Gen2 is the next generation of On-Board Diagnostic system enabled with IOT tracking and cloud connectivity.

2. Contents in the Box

- OBD
- User manual

3. Product overview



4. Product Specifications

Dimensions	130.74x59.738x30mm
Weight	~181gram/0.4lbs
User Interface	LCD Display
	Power ON/OFF Button
	User button
	Torch button & Led Indication
	RGB Led Connectivity and Charge Indication
	Flash led
	USB Type C
On-Board Battery Charging through	Wireless Charging pad
	USB Type C
	OBD Port
Operating Modes	
Housing	ABS Plastic Enclosure with IP65 Protection
Power	On Board Li-Po Battery-2000mAH
	USB Type C
	Vehicle OBD Port

Operating Temperature	0-45°C
Storage Temperature	0-50°C
OBD Protocol Supported	High Speed CAN
	Medium Speed CAN
	SW CAN
	SAE J1850 VPW & SAE J1850 PWM
	ISO 9141-2 & ISO14230 KWP
	OEM Specific DOIP
Wireless Connectivity	Wi-Fi
	Bluetooth
	GPS

5. On-Board battery charging option

OBD has 3 options for charging on-Board Battery

- Charging through Wireless Pad
- Charging through USB
- Charging through OBD plug-in to vehicle

Device State	Charge Status Indication
Battery is charging	Green Solid
Charging Complete/ Charge adapter not connected	No Indication

5.1 Charging through Wireless Pad

To charge wirelessly, charging pad is required. Connect USB type C charger to power the charging pad. Once charging pad is powered, place the OBD on charging pad. Green light will lit on OBD indicating battery is charging.



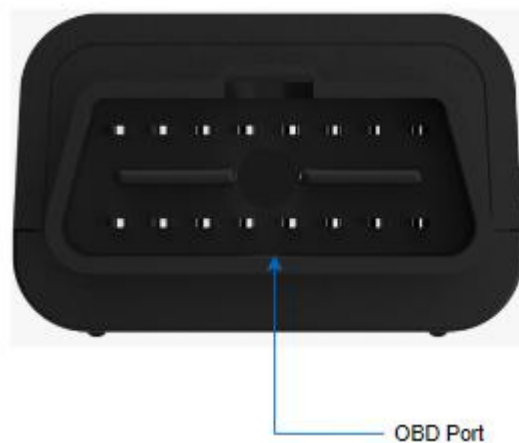
5.2 Charging through USB

OBD battery can be charged through USB type C port by plugging to the USB connector. 5V@2A adapter is required for charging OBD through USB port



5.3 Charging through OBD

OBD can be charged by plugging the OBD to vehicle's OBD port



6. Led Indications

OBD II PROTO 5 LED STATES		
S.NO	FUNCTIONALITY	LED STATES
1	OBD SCAN COMPLETED	RED AND BLUE - ON/OFF 3 TIMES (GREEN ALWAYS ON)
2	CHARGING INDICATION (OBD, USB, WIRELESS)	GREEN ON
3	USER PUSH BUTTON LONG PRESS	WHITE LED ON - 10 SECONDS
4	SIDE PUSH BUTTON	TORCH LIGHT ON

7. OBD Power ON/OFF

7.1 Power ON

To power OBD, press Power button for a sec. LCD display will show Tekion logo



After power on, OBD starts booting which takes about a minute to resume normal operation

7.2 Power OFF

To power OFF OBD, press & hold the power button for about 5-6 seconds

8. Device Provisioning

Step-1: Power on the device.

Step-2: Open Tekion Mobile application for Auto Dealerships

Step-3: Go to Walk-in page and click on the OBD Icon.

Step-4: Scan the QR code on top of OBD device. Confirm the Bluetooth pair request in Mobile app

Step-5: Acknowledgement OBD details (MAC id, OBD name) are reflected on the Mobile App.

Step-6: User shall be able to see the scanned mobile app username on the LCD of OBD device.

Step-7: OBD got provisioned with user details.

9. Modes of operation

Active mode: All the peripherals like Radio (Wi-Fi/BLE), LED's, LCD's and Core are functional and running.

Conditions to Enter Active Mode:

- OBD plugin/out from the vehicle OBD socket.
- OBD connected/Disconnected to Wired and Wireless charger
- OBD Power Button press
- On Expiry of the Sleep Timer.

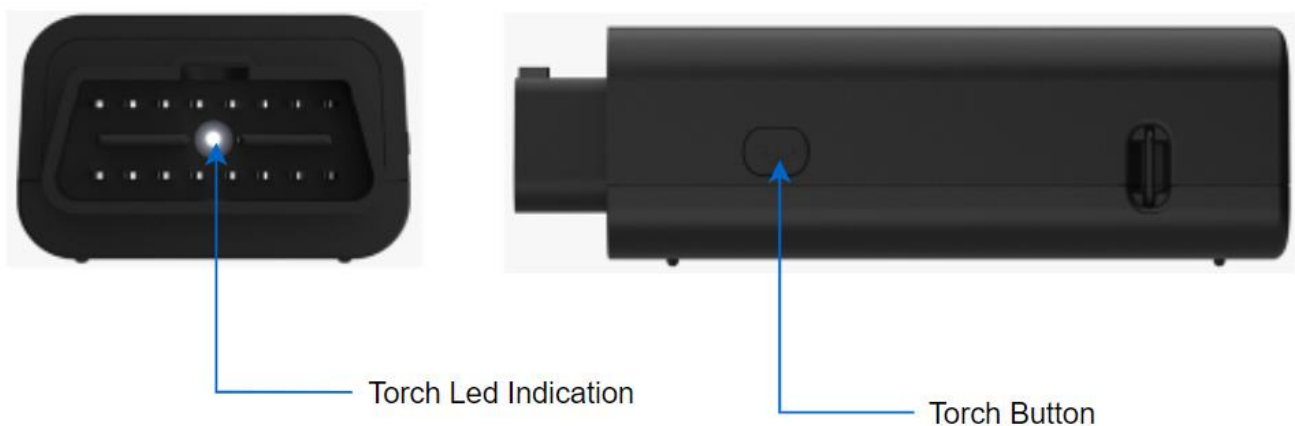
Sleep mode: All the peripherals including Core will be in suspended Mode waiting for the Actives events to occur.

Conditions to Enter Sleep Mode:

- 2 Mins of ideal time will make OBD to enter sleep (suspend) Mode.
- Ideal Time is configurable through Cloud.

10. Torch Led Indication

Torch button can be turned ON by pressing the Torch button. Light will turn ON till button is pressed and gets switched OFF when button released.



11. Safety and Precautions

Although OBD circuit design incorporates multiple protections circuits, certain precautions must be taken while usage.

- OBD should be stored within storage temperature limit.
- Avoid usage if any chemical spill.

12. FCC Warning

Class A -

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.