Item	Description
Storage Temp.	-20 to 60°C (-4 to 140°F)
Dimensions (WxHxD)	304.4 mm (11.98") x 227.8 mm (8.97") x 42.5 mm (1.67")
Weight	1.66kg (3.66 lb.)
Protocols	DoIP, PLC J2497, ISO-15765, SAE-J1939, ISO-14229 UDS, SAE-J2411 Single Wire Can(GMLAN), ISO-11898-2, ISO-11898-3, SAE-J2819 (TP20), TP16, ISO-9141, ISO-14230, SAE-J2610 (Chrysler SCI), UART Echo Byte, SAE-J2809 (Honda Diag-H), SAE-J2740 (GM ALDL), SAE-J1567 (CCD BUS), Ford UBP, Nissan DDL UART with Clock, BMW DS2, BMW DS1, SAE J2819 (VAG KW81), KW82, SAE J1708, SAE-J1850 PWM (Ford SCP), SAE-J1850 VPW (GM Class2)

2.2 MaxiFlash VCI –Vehicle Communication Interface

2.2.1 Functional Description

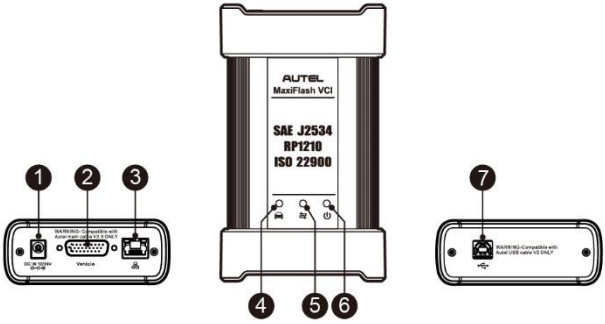

Figure 2-4 ***MaxiFlash VCI Programming Device***

1. DC Power Supply Input Port
2. Vehicle Data Connector
3. Ethernet Port

4. Vehicle LED

   - Flashes green when the device is communicating with the vehicle system

5. Connection LED

   - Lights solid green when the device is properly connected with the display tablet via the USB cable
   - Lights solid cyan (blue/ green) when connected via Wi-Fi; lights solid blue when connected via wireless BT connection

6. Power LED

   - Lights solid green when powered on
   - Flashes red when VCI is upgrading
   - Lights solid red when system failure occurs
   - Lights yellow automatically at power up when VCI is self-testing

7. USB Port

IMPORTANT

Do not disconnect the programming device while the vehicle LED status light is on! If the flash programming procedure is interrupted while the vehicle's ECU is blank or only partially programmed, the module may be unrecoverable.

Programming Capability

The MaxiFlash VCI device is a D-PDU, SAE J2534 & RP1210 compliant PassThru programming interface device. Using the updated OEM software, it is capable of replacing the existing software/firmware in the Electronic Control Units (ECU), programming new ECUs and fixing software-controlled drivability issues and emission issues.

Communication Capability

The MaxiFlash VCI device supports Bluetooth (BT), Wi-Fi, and USB communications. It can transmit vehicle data to the tablet with or without a cable connection. In open areas, the working range of the transmitter through BT communication is up to 328 feet (about 100 m). The working range of 5G Wi-Fi is up to 164 feet (50 m). If the signal is lost due to being taken out of range, communication will be restored once the tablet is within range.

2.2.2 Power Sources

The VCI device can receive power from the following sources:

- Vehicle Power

- AC/DC Power Supply

Vehicle Power

The VCI device operates on 12/24 Volt vehicle power, which receives power via the vehicle data connection port. The device powers on whenever it is connected to an OBD II/EOBD compliant data link connector (DLC). For non OBD II/EOBD compliant vehicles, the device can be powered from a cigarette lighter or other suitable power port on the test vehicle using the auxiliary power cable.

AC/DC Power Supply

The VCI device can be powered from a wall socket using the AC/DC power adapter.

2.2.3 Technical Specifications

Table 2-3 *MaxiFlash VCI Specifications*

Item	Description
Communications	• BT V2.1 + EDR • USB 2.0 • Wi-Fi 5G • Ethernet
Wireless Frequency	5 GHz
Input Voltage Range	12 VDC to 24 VDC
Supply Current	• 170 mA @12 VDC • 100 mA @ 24 VDC
Operating Temp.	0°C to 50°C
Storage Temp.	-20°C to 60°C
Dimensions (L x W x H)	149 mm (5.87") x 86 mm (3.38") x 35 mm (1.28")
Weight	0.29 kg (0.64 lb.)

Note

For additional information, please refer to the accompanied user manual for the VCI device.

2.3 Accessories Kit

2.3.1 Main Cable

The VCI device can be powered through the Autel Main Cable V2.0 (the V2.0 icon can be seen on the cable) when connected to an OBD II/EOBD compliant vehicle. The Main Cable connects the VCI device to the vehicle's data link connector (DLC), through which the VCI device can transmit vehicle data to the tablet.

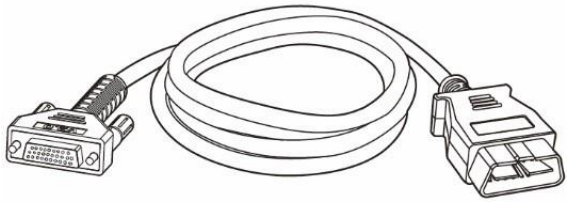

Figure 2-5 ***Main Cable – 1.5m in Length***

Note

MaxiFlash VCMI and MaxiFlash VCI can be connected by the Autel Main Cable V2.0 only. DO NOT use other Autel main cables to connect the MaxiFlash VCMI and MaxiFlash VCI.

2.3.2 OBD I-Type Adapters

The OBD I-type adapters are for Non-OBD II vehicles. The adapter used depends on the type of vehicle being tested. The most common adapters are shown below (Adapters may be sold separately, please contact your distributor for details).

Benz-14

Chrysler-16

BMW-20

Nissan-14

Kia-20

Fiat-3

PSA-2

Mazda-17