

# ZENITH Z7 PRO & LITE Specifications



**Driving Excellence, Beyond Diagnosis:  
Your Satisfaction, Our Commitment.**

# 1. ZENITH Z7 Design Overview

## ○ ZENITH Z7 Design Overview





## 2. Diagnostic Tablet of ZENITH Z7

### ○ Design of the Diagnostic Tablet



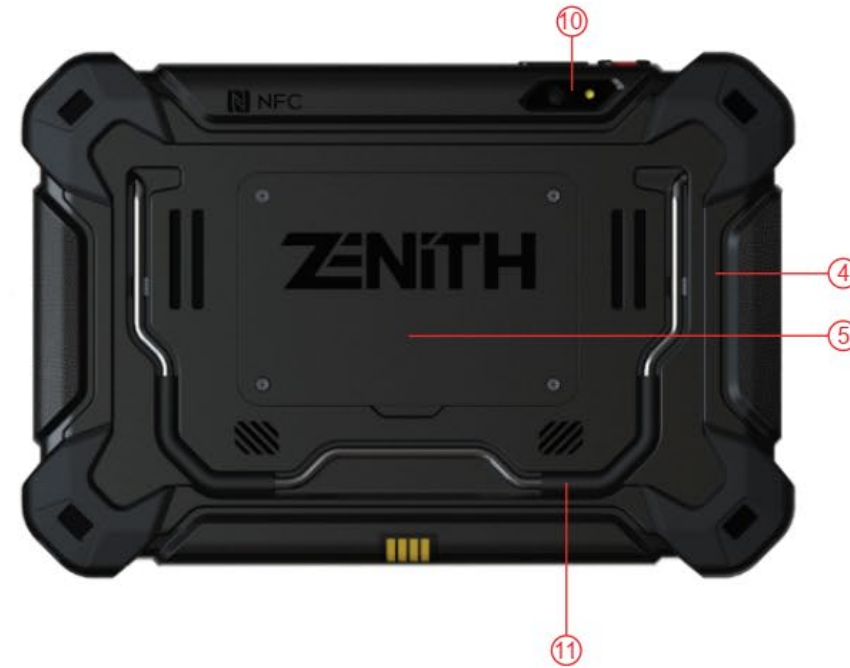
## 2. Diagnostic Tablet of ZENITH Z7

### ○ Design and Description of the Diagnostic Tablet



NO	PART NAME
1	Cover_Front
2	LCD & TOUCH
3	CAP_Shock Protecting
4	Cover_Rear
5	Cover_Battery
6	Power Button

NO	PART NAME
7	VOLUME BUTTON
8	CAP_USB-A & USB-C
9	CAP_HDMI/SD/RJ45
10	WINDOW_CAMERA/FLASH
11	STAND RING
12	STYLUS PEN





## 2. Diagnostic Tablet of ZENITH Z7

### ○ Name of each Button and Connecting Jack for Z7 Tablet

**Power**

**Volume**

**USB-A**

**USB-C**

**RJ-45**

**Micro-SD**

**HDMI**

**Charging USB Cable**

**AC/DC Adapter (5V, USB-Type C)**

**Battery (3.85V, 5800mAh)**

**Z7 Tablet charging port for the Charging Cradle**

## 2. Diagnostic Tablet of ZENITH Z7

Category	Specifications
	Z7 Tablet
<b>CPU</b>	2.2GHz (Octa-Core)
<b>System Memory</b>	RAM: 4GB, Inner Memory: Flash 64GB
<b>External Storage</b>	Micro SD Card Slot Supported (up to 256GB)
<b>OS</b>	Android 11
<b>LCD /Touch Screen</b>	10.1" (FHD, 1920X1200) / Capacitive Touch Screen
<b>Touch Pen</b>	Stylus Pen(Length: Long, Tip Type: Soft)
<b>External Key</b>	3 Hard Keys(PWR, Vol UP&DN), Industrial Button
<b>Camera</b>	8MP A/F with LED Flash(Rear)
<b>Sound/MIC/Earjack</b>	Speaker, MIC
<b>External USB port</b>	USB Host(Type-A) 1ea, USB Host & Slave(Type-C) 1ea (with Locking Type)
<b>HDMI</b>	Type A (FHD, 1920 X 1080 px)
<b>Ethernet</b>	RJ-45 Ethernet(10/100Mbps)
<b>Wi-Fi</b>	Wi-Fi 802.11 a/b/g/n
<b>Bluetooth</b>	Bluetooth 5.0 (Communication with VCI)
<b>NFC</b>	NFC Supported (Rear Side)
<b>Rechargeable Battery</b>	Li-ion 3.85V(5800mAh), Limited Charge Voltage: 4.4V
<b>Sensor</b>	Light Ambient Sensor, Accelerometer / Gyro sensor
<b>Operating Voltage</b>	DC 5V (But Supported through VCI Module for Vehicle Voltage)
<b>Power Input Conn.</b>	USB-C Type(Locking Type)
<b>Size (mm), Weight</b>	About 275 X 187 X 36, About 1.24kg
<b>Others</b>	Charging Cradle(Only Charging Function) is Supported

### 3. ZVCI2 Module (Pro)

#### ○ Design of the VCI Module(ZVCI2) 1/2



### 3. ZVIC2 Module (Pro)

#### ○ Design of the VCI Module(ZVIC2) 2/2





### 3. ZVCI2 Module (Pro)

#### ○ Description of each Port of ZVCI2 Module



**[Diagnostic Cable (DLC) Connector]**  
(Type: D-SUB 15pin)

1. Power supplied by Diagnostic Cable from the vehicle



**[DC Jack]**

1. Used for power supplies from the vehicle battery
2. General 12V AC/DC Adapter could be used, but not supplied with basic set from EZDS.

**[USB & 5V Output Port]**

1. Used for communication between Z7 Tablet and ZVCI2 by using USB Connector
2. Z7 Tablet could be recharged from 5V power supplied through ZVCI2 Module

**[RJ-45 Connector]**

1. Used for DoIP communication from a vehicle's Diagnostic Connector by RJ-45 Cable
2. It does not provide ethernet connection to Z7 Tablet

Diagnostic Over Internet Protocol

### 3. ZVCI2 Module (Pro)

Category	Specifications
	Z7 VCI(ZVCI 2) for Z7 Pro
<b>CPU</b>	Cortex-M4,180MHz
<b>System Memory</b>	Flash 2MB / SRAM 512kB
<b>External ROM</b>	EEPROM 512Byte
<b>Vehicle Comm. Protocol</b>	Melco, Nissan, ISO9141-1&2
	CAN(High Speed, Low Speed, Single Wired)
	J1850(PWM, VPWM), J1708
	CAN-FD
	DoIP By-Pass (Line Activating & Option Channel Selecting)
<b>FND(7 Segment LED)</b>	Vehicle Voltage Display on Module
<b>LED</b>	4EA (POWER, PC COMM, DIAG DATA, STATUS)
<b>Operating Voltage</b>	8~32V
<b>Bluetooth</b>	Bluetooth 5.0 (Communication with Tablet)
<b>External Comm. Port</b>	USB-C Type(Locking Type)
<b>Power Output</b>	DC 5V Output for Tablet Charging with Z7 Special USB Cable
<b>Power Input Conn.</b>	DC Jack, DLC
<b>Size (mm), Weight</b>	About 170 X 124 X 32mm, 320g
<b>Flash LED</b>	Not Supported
<b>Others</b>	Rugged Design

# 4. ZVCI1 Module (Lite)

## ○ Design of the ZVCI Module(Lite) 1/2





## 4. ZVCI1 Module (Lite)

### ○ Design of the ZVCI Module(Lite) 2/2



# 4. ZVCI1 Module (Lite)

## ○ Design of the ZVCI Module(Lite) 1/2



**[Diagnostic Cable (DLC) Connector]**  
(Type: D-SUB 15pin)  
1. Power supplied by Diagnostic Cable from the vehicle

**[ZVCI Flashlight]**  
1. Power supplied by AAA x2 batteries



**[DC Jack]**  
1. Used for power supplies from the vehicle battery

**General USB A to B Cable Port**

### ○ Specifications of the VCI Module(ZVCI Lite)

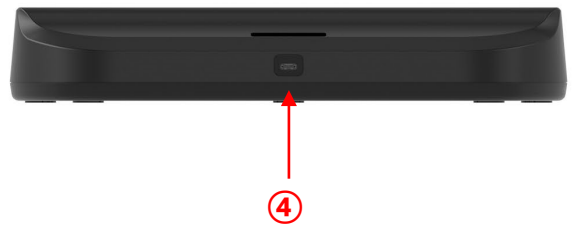
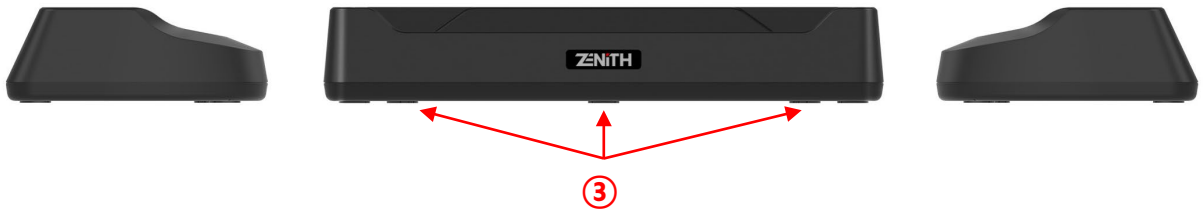
Category	Specifications
	Z7 VCI(ZVCI) for Z7 Lite
<b>CPU</b>	Cortex-M4,180MHz
<b>System Memory</b>	Flash 2MB / SRAM 512kB
<b>External ROM</b>	EEPROM 512Byte
<b>Vehicle Comm. Protocol</b>	Melco, Nissan, ISO9141-1&2
	CAN(High Speed, Low Speed, Single Wired)
	J1850(PWM, VPWM), J1708
	Not Supported
	Not Supported
<b>FND(7 Segment LED)</b>	Not Supported (But, Supported on Tablet Screen)
<b>LED</b>	4EA (POWER, PC COMM, DIAG DATA, STATUS)
<b>Operating Voltage</b>	8~32V
<b>Bluetooth</b>	Bluetooth 5.0 (Communication with Tablet)
<b>External Comm. Port</b>	USB-B Type(Normal Type)
<b>Power Output</b>	Not Supported
<b>Power Input Conn.</b>	DC Jack, DLC
<b>Size (mm), Weight</b>	About 130 X 89 X 32mm, About 180g
<b>Flash LED</b>	Supported with Alkaline Battery(AAA Type 2ea, Optional)
<b>Others</b>	General Design



# 5. Charging Cradle for Z7 Tablet

## ○ Design of the Charging Cradle

NO	PART NAME
1	Top Cover
2	Bottom Cover
3	Foot Rubber
4	Charging Port(USB Type-C)
5	Charging Terminal



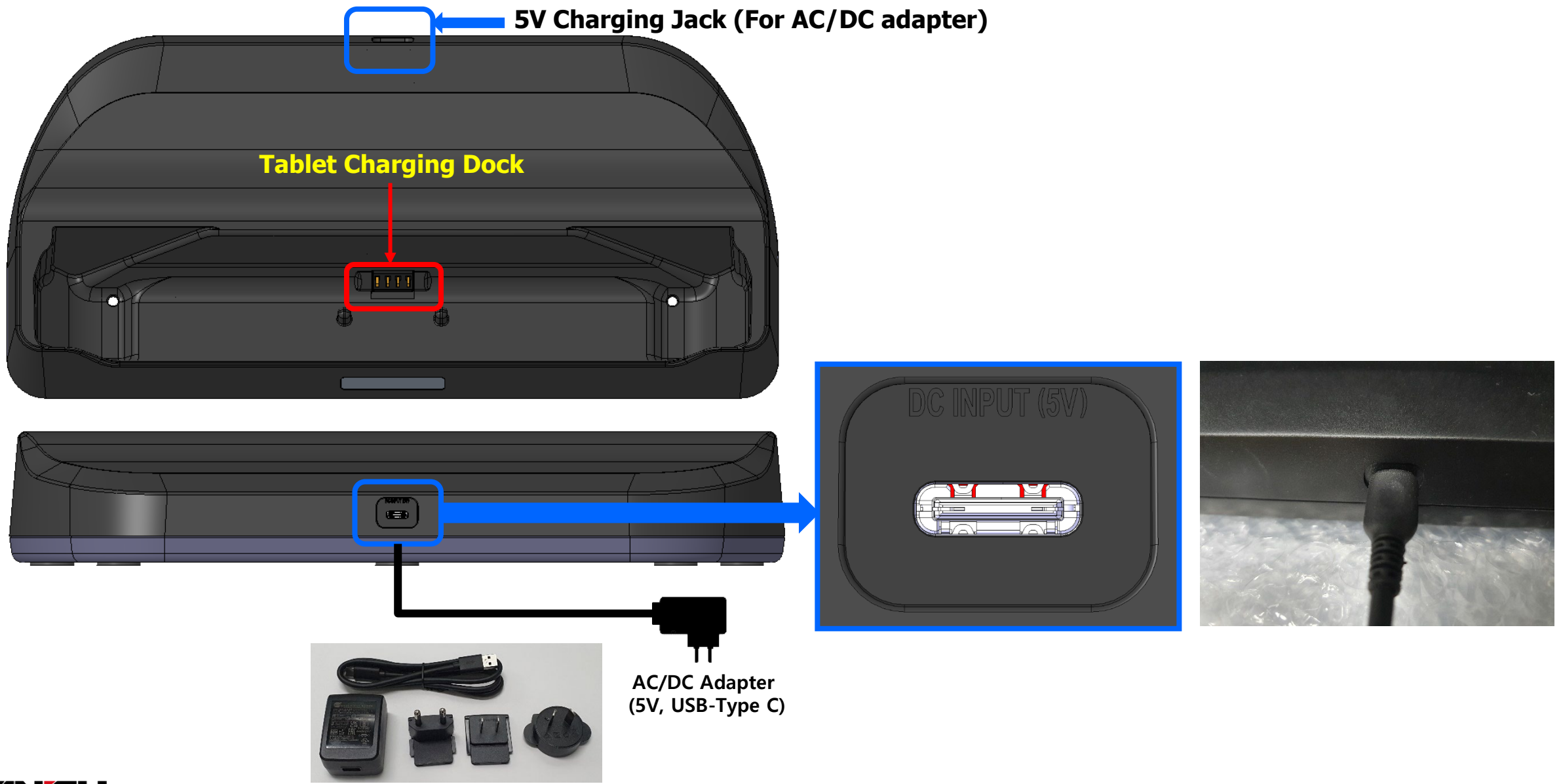
## 5. Charging Cradle for Z7 Tablet

### ○ Design of the Diagnostic Tablet with the Charging Cradle



# 5. Charging Cradle for Z7 Tablet

## ○ Description of Charging Cradle(Z7 Tablet-specific adapter) & Parts Names





# 5. Charging Cradle for Z7 Tablet

## ○ Specifications of the Cradle

Rev\_6.0

Category	Specifications	Remark
	Z7 Cradle	
General	Single Slot Cradle for Z7	
Function	Tablet Charging	
Dimension	About 298 X 140 X 51mm	
Weight	About 870g	
Docking Connector	Battery connector 4Pin Type	
Power Connector	USB Type-C	
Input Voltage	DC 5V	



# Z7 ZVCI2 USB Cable

## ○ Connecting Z7 Tablet and ZVCI2 by USB Cable(Each ends of the cable is identical)

### ◆ USB enables Communicating & Charging at the same time

※ Tablet must have minimum amount of power remaining to recognize ZVCI2.  
[Assuming the rechargeable battery is not very aged, users can have the Z7 Tablet charging while having USB cable connected with ZVCI2 by rebooting Tablet 1 or 2 times.]





# ■ Handstrap for Z7 Tablet

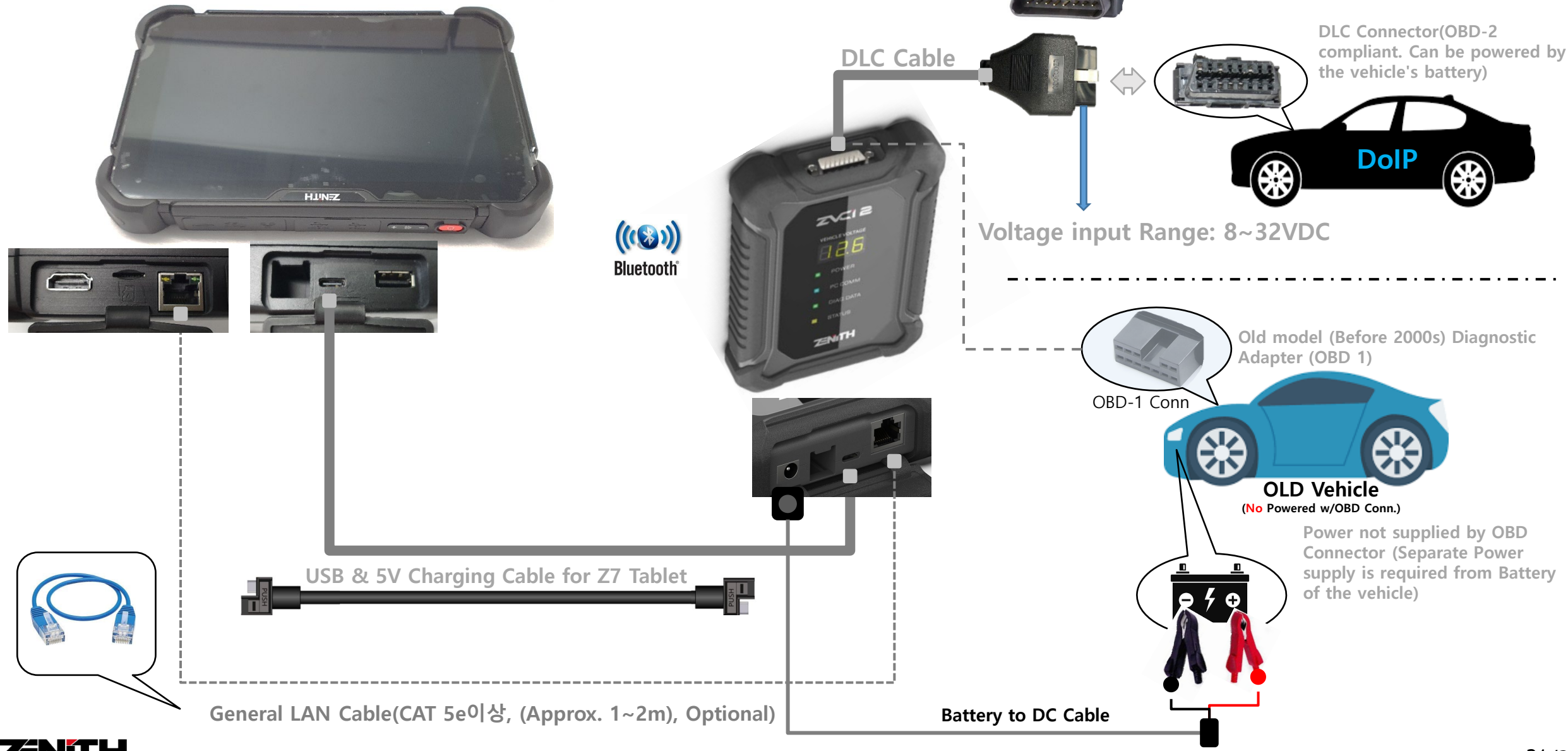
## ○ Mounting Hand Strap for Z7 at the Tablet's Rear Side





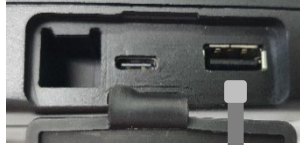
# Diagnostic Tablet & ZVCI2 Module (Pro) with Vehicle

## Configuration for use of Z7 Pro Tablet and ZVCI2 (Connecting Options)



# Diagnostic Tablet & ZVCI1 Module (Lite) with Vehicle

## Configuration for use of Z7 Lite Tablet and ZVCI (Connecting Options)



General USB A to B Cable(Optional)



Battery to DC Cable(Optional)

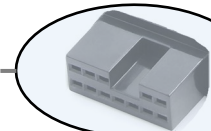
DLC Cable



Voltage input Range: 8~32VDC



DLC Connector(OBD-2 compliant. Can be powered by the vehicle's battery)



OBD-1 Conn

Old model (Before 2000s) Diagnostic Adapter (OBD 1)



OLD Vehicle

(No Powered w/OBD Conn.)

Power not supplied by OBD Connector (Separate Power supply is required from Battery of the vehicle)

