SOL PA501
Selling Features

2020/02/18 V20A

Always on rugged

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SOL PA501 10.1” Fully Rugged Android Tablet

SOTI MOBICONTROL CERTIFIED

Android Enterprise Recommended

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Design Concept

RuggON's SOL, the first-in-class fully rugged tablet equipped octa-core processor and Android 9.0 plus Google Mobile Services (GMS), tailored to suit the need of high mobility and performance:

Daylight mode
Night mode
Stealth mode

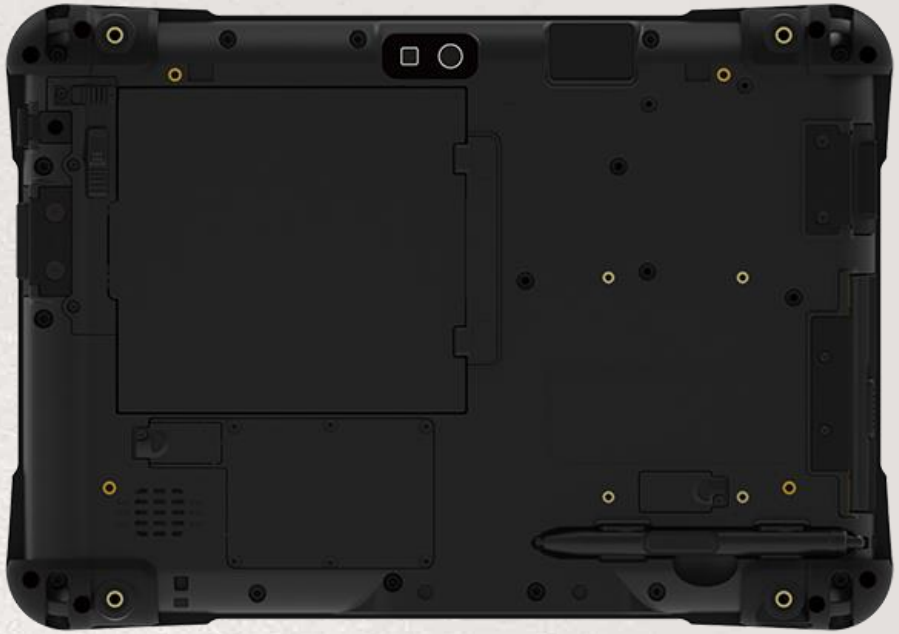
Qualcomm SD 660

Endurable battery life
+
Fast charging

RuggGEAR

Product

Outlook : Front / Rear View



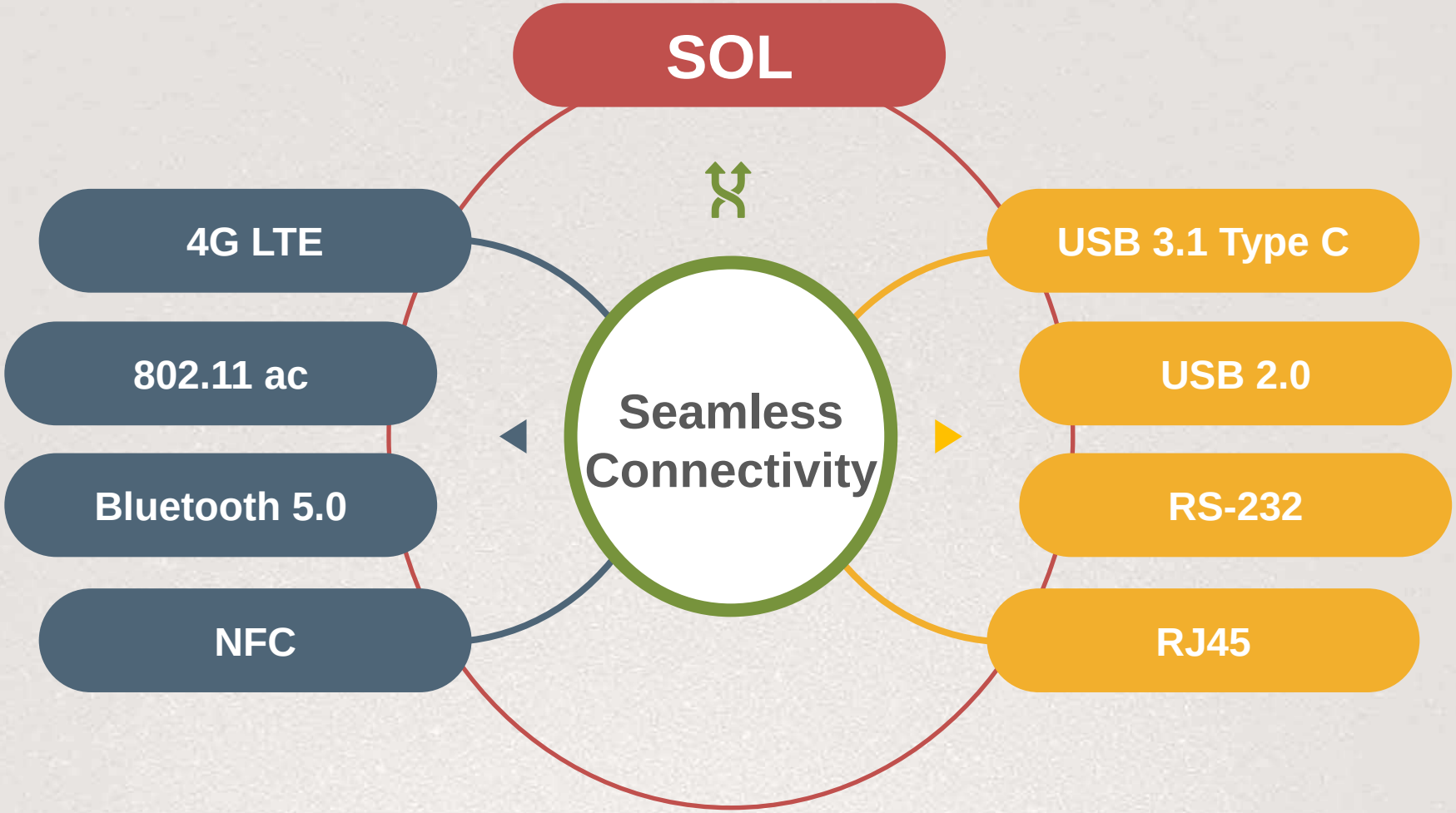
Android 9.0 (Pie) with GMS Certified

Outlook : Interfaces

Specifications

- **System**
  - CPU : Snapdragon™ 660 64-bit octa-core 1.9GHz up to 2.2GHz
  - 32GB eMMC
  - 3GB RAM
  - OS : Android 9.0 w/ GMS certified
- **Display**
  - 10.1” WUXGA (1920 x 1200) TFT LCD, 1000 nits high brightness
  - 10-point Capacitive Touch supports glove touch with Gorilla Glass
  - Supports night mode and steal mode
- **Communications**
  - BT5.0
  - Wi-Fi 802.11 a/b/g/n/ac, 2x2 MU-MIMO
  - GNSS (GPS/ Glonass / BeiDou)
  - 4G LTE
  - Option NFC
- **Expansion Options**
  - Built-in 2D barcode reader (OCR supported)
  - Fingerprint reader
- **Interface**
  - USB 3.1 type C x 1 (DP supported)
  - USB 2.0 type A x 2
  - RS-232 x 1 (Option USB 2.0)
  - Gigabit Ethernet (RJ45) x 1
  - Audio jack (headphone/ microphone combo) x 1
  - Micro SIM slot x 2
  - Micro SD slot x 1
  - Docking connector x 1
  - Optional RF pass-through connector x 2
  - DC-in x 1
- **Durability**
  - IP65, MIL-STD-461G, MIL-STD-810G (shock & Vibration resistant, 5 ft drop)
  - -20ºC to 60ºC operating temperature
- **Dimensions & Weight**
  - 28 x 19.5 x 2.3 cm (11” x 7.7” x 0.9”); 1.36 kg
- **Battery**
  - Standard : 4500 mAh, 10.8V, hot swappable
  - Extended (option) : 9000 mAh , 10.8V, hot swappable

Seamless Connectivity



Dual SIM Implementations

- Hot-swappable SIM #1 card design
- Support Dual SIM Dual Standby(DSDS) for Data only
- Can quickly switch to another carrier to send and receive data

3 modes of Dual SIM	Standby		Active	
	SIM 1	SIM 2	SIM 1	SIM 2
Dual SIM Single Standby	active	inactive	active	inactive
Dual SIM Dual Active	active	active	active	active
Dual SIM Dual Standby	active	active	active	inactive

PA501

Long Battery Life for Work Shift

- Hot swappable battery design for field application
  - A hot swappable battery design can be switched in and out without ever turning off the device.
  - 5 min. count down with voice alarm in last minute.

- With Long battery life and fast charging design, you can do more

Various Data Capture

8MP/ 13MP cameras (option)

Built-in 2D Barcode Reader (option)

- OCR reading feature supported

Integrated NFC (option)

Snap-on connector for expansion flexibility

- Signal : USB + UART
- Easy for customization

Advanced Capacitive Touch

Water Rejection

10-point Multi-touch

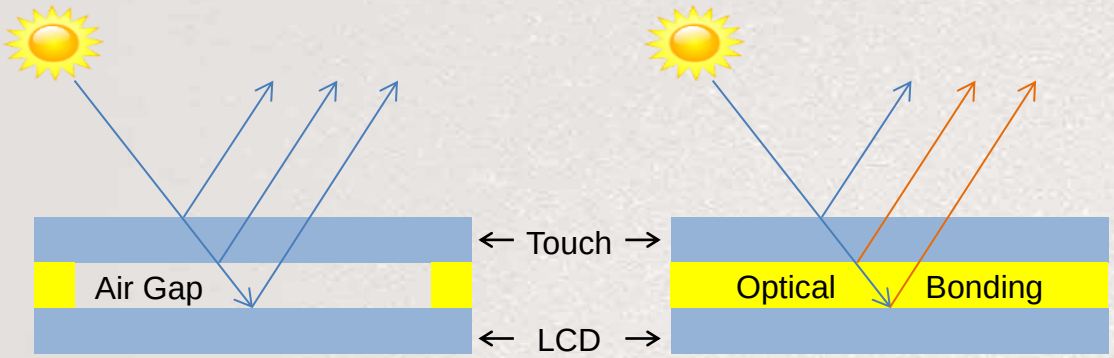
Three touch modes:

- Finger
- 2mm hard tip stylus
- Glove

Palm Rejection

Multiple Displays Viewing Mode

- **Sunlight readable**
  - 1000 nits TFT LCD
  - Optical bonding
    - Reduce sunlight reflection
    - Increase LCD backlight transmission

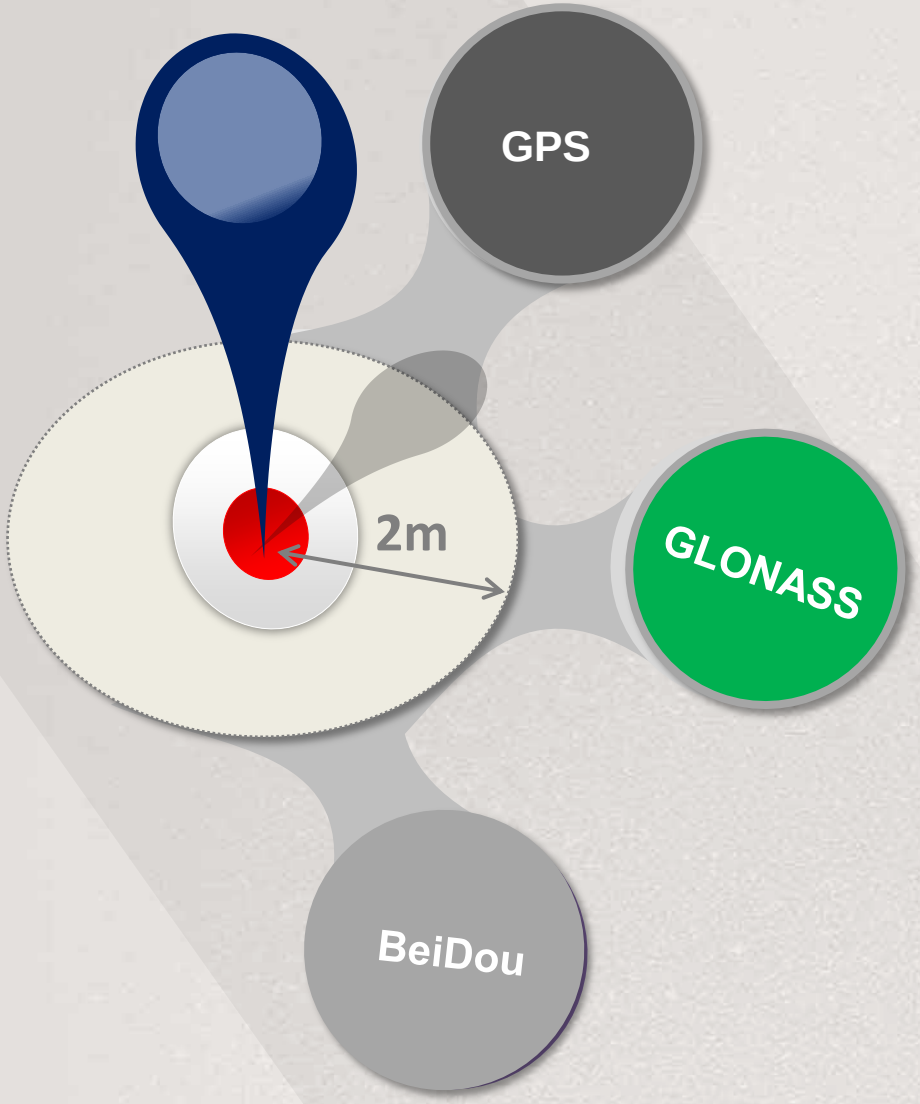


Brilliant Display Performance

- **Night mode**
  - One button to lower the brightness to 1 nit
  - Optimize the viewing experience no matter how low ambient light changes

- **Stealth mode**
  - Instantly activate stealth mode by push of a button to perform critical tasks.
  - Easy to turn off the display, all the LED lights, internal speakers (Mute mode) and RF radio(Flight mode) at the same time

Wide Coverage GNSS



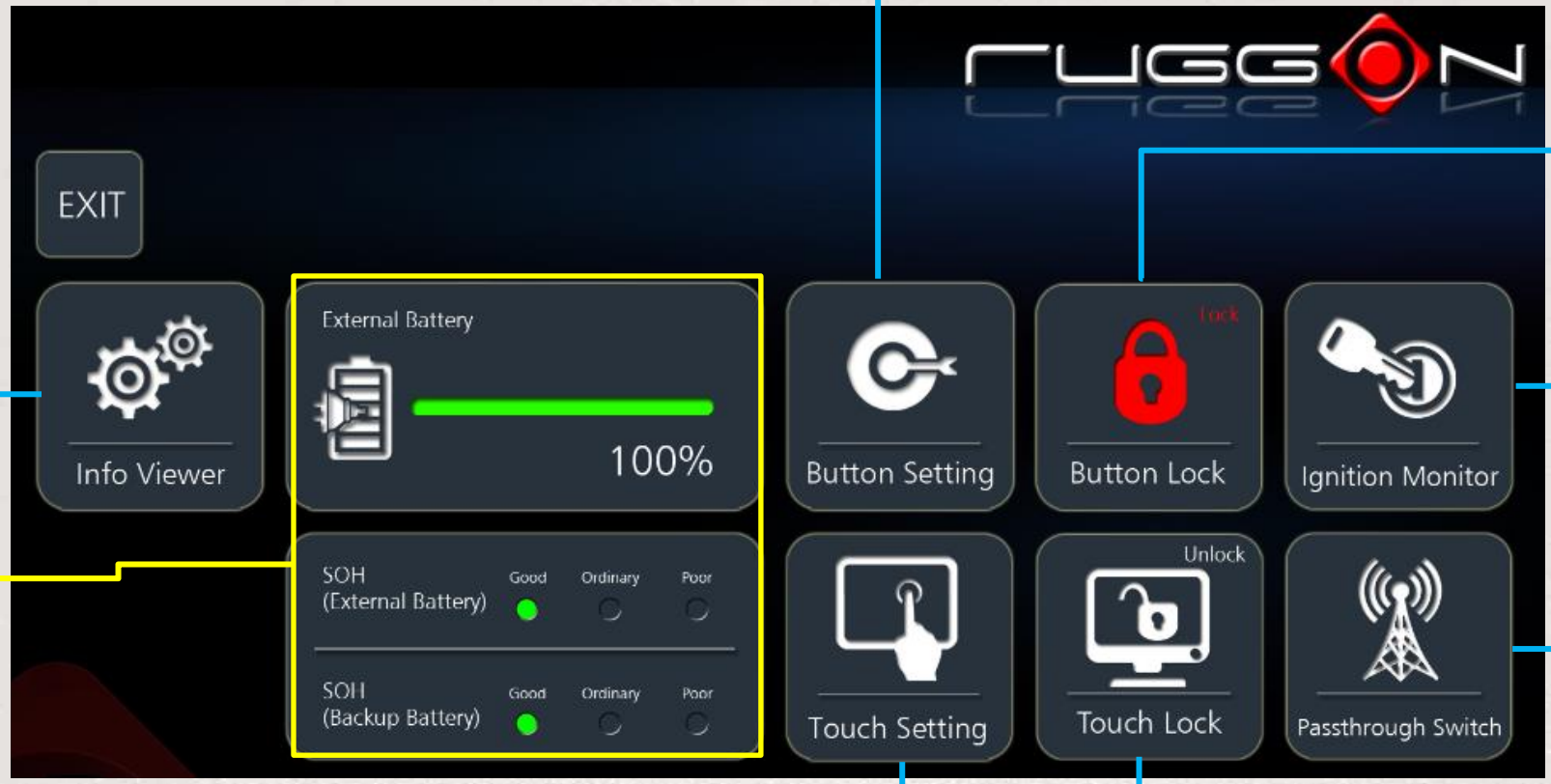
- Dedicated GNSS module and internal antenna
- Support GPS, GLONASS and BeiDou satellite systems
- Continuous accuracy level in underpass, tunnel, and between buildings
- Shorter acquisition time
- Accuracy level up to 2m (SBAS enabled)

Uncompromising Ruggednes

- IP65
- Drop Resistance
  - 5-foot, 26 drops with one device
- Wide Temperature
  - Operating : -20°C to 60°C
  - Storage : -30°C to 70°C
- Shock
  - MIL-STD-810G Method 516.6 Procedure 1
    - Sawtooth wave / Min. peak value : 40g / 11ms duration
- Vibration
  - MIL-STD-810G Method 514.6 Category 4
    - Fig 514.6C-1 Common carrier (US highway truck)
    - Fig 514.6C-3 Composite wheeled vehicle

User Friendly Design: DashON

- **Quick Setup Interface**



Function button setting : choice of pre-defined function list or assign installed program

Button lock

Display system information

Ignition monitor

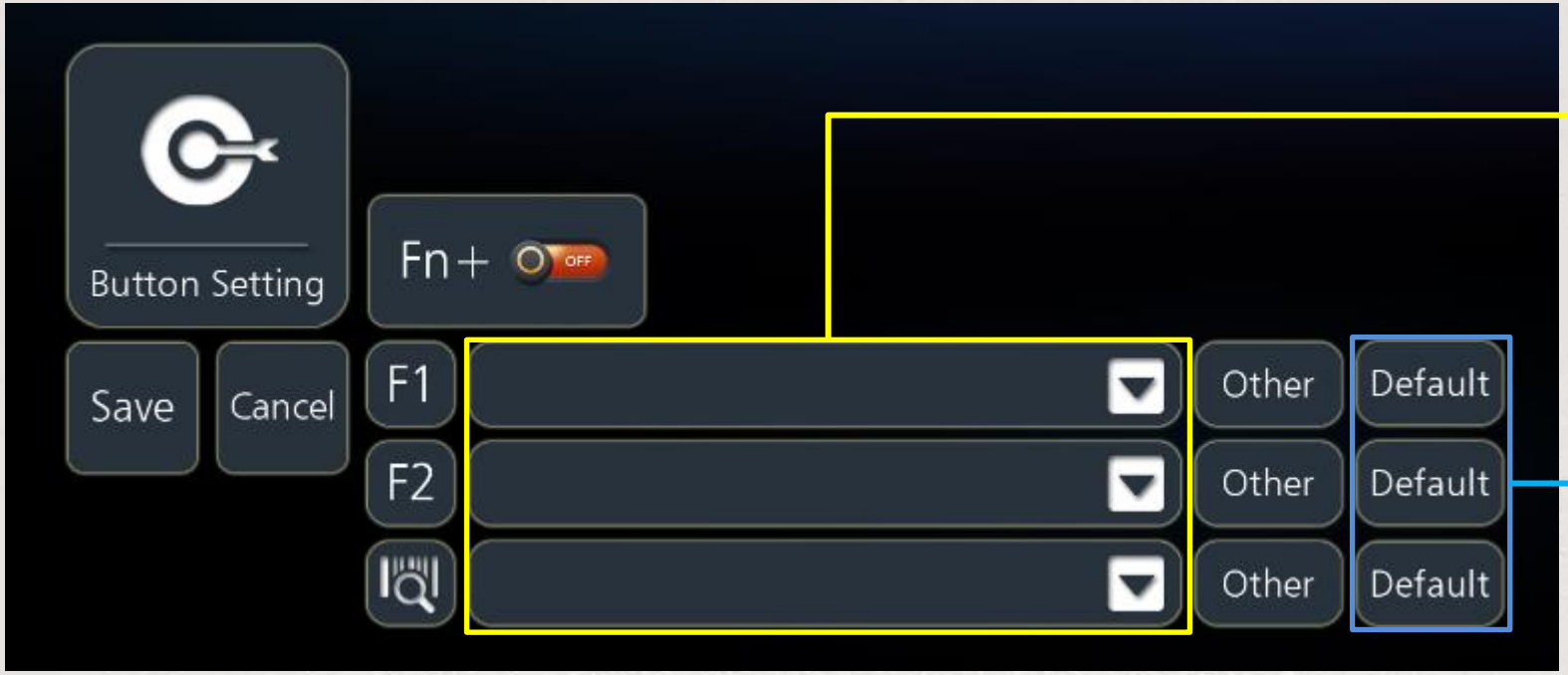
Battery status

Pass-through switch for external antennas (Connected with vehicle dock)

Touch setting

Enable/Disable Touch function

Stealth / night mode setting at DashON



Select stealth mode/ night mode from pull-down list

Restore factory settings

RuggGEAR

Fingerprint Reader

- Capacitive type, 508 dpi
- FIPS 201 PIV certificate
- FAP10
- IPX5 design
- Simply plug fingerprint module into SOL's USB port

Detachable Keyboard

- Latching, fully rugged, foldable as notebook, integrated touchpad
- Integrated backlighting with 4 levels of brightness
- Designed to meet IP54 specifications
- Foreign languages available upon request

Vehicle Dock

VD06

- IP54
- Vibration resistance – MIL-STD-810G Method 514.7 C1
- Shock resistance – MIL-STD-810G Method 516.7 C1, Crash Hazard Shock, 75G
- Power: 9 to 32VDC input, 19VDC 1.57A output
- 75mm/100mm VESA bracket screw holes

VD10

- Vibration resistance – MUL-STD-810G, Method 514.6 C2
- Power : 12/24 VDC input, 19 VDC 4.74A output
- 75mm VESA bracket screw holes
- RS-232 supports 0V/5V/12V, @1A

SKU	VD10C	VD06-F
USB 2.0	x 2	x 4
RS-232	x 1	x 2
RJ45	x 1	x 1
HDMI	N/A	x 1
VGA	N/A	x 1
Audio jack	N/A	x 1
Speaker	N/A	x 1
SMA antenna connector	x 2	x 2
DI/DO	N/A	4xDI; 4xDO
DC-in	x 1	x 1

Vehicle Dock (VD06) – Added Features

- Ignition function
- Lock with pairing key
- D-ring design for adding 2nd lock

- Flexible antenna pass-through setting
  - Choose either 2 of the following function through DashON

- Fuse for over current protection
- Easy swap fuse design

Vehicle Dock (VD10) – Added Features

- Simple one-handed installation
- Lock with pairing key

- Flexible antenna pass-through setting
  - Choose either 2 of the following function through DashON

Desktop Dock

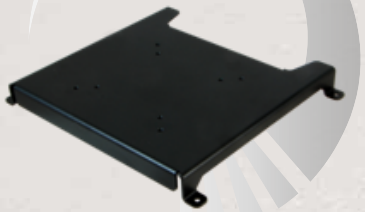
SKU	DT06-F
Kensington Lock	x 1
USB 2.0	x 4
RJ45	x 1
HDMI	x 1
VGA	x 1
DC-in	x 1

- Multiple interfaces
- Share the same power adapter with tablet

Battery Charger

- 2-bay/ 4-bay design
  - Each bay can support both standard and extended battery
- Clear LED indicators
  - Power
  - Charging status of each bay
- 2-bay charger shares the same power adapter with tablet

Other Accessories



VESA Mount Bracket

Hand Strap

Shoulder Strap

Handle

Hard Handle

4500mAh Battery

9000mAh Battery

Car Adapter