VX-601 Rugged Vehicle Terminal

Selling Features

2019/04/12 V.19A

ruGGON

Always on rugged

Contents

01 **Specifications**

02 **Outlook**

03 **Features & Peripherals**

04 **Applications**

VX-601 12.1"

Specifications

System

- Intel Core i5-6300U 2.4GHz, optional Intel Celeron 3955U 2GHz
- 4 GB DDR3L, expandable to 32 GB
- M.2 2280 SSD, SD slot; dual speaker

Display

- 12.1", 1024 x 768, 700 nits / 1200 nits, supports auto-dimming
- Resistive touch, optional defroster, PCT by request

Communication

- Gigabit Ethernet (RJ45)
- WiFi / Bluetooth
- Optional GNSS, 4G LTE / GPRS / HSPA+

Function Button

- Programmable button x 9, brightness adjustment x 2, volume adjustment x 2, display on/off x 1, optional defrost/ defog button x 1

I/O Interface

- RS-232 w/ power supported x 1, RS-232/422/485 x 1
- USB 2.0 x1, USB 3.0 / 2.0 x 1
- DI x 2, DO x 2
- CAN bus (SAE J1939 / OBD II* supported) x 1
- Audio headset jack x 1
- Optional video input x 4

Power Management

- 9~60 VDC; backup battery
- Ignition sense w/ delay on/off setting
- Wake on RTC

Durability

- IEC 60529 IP66, MIL-STD-810G, IEC 60721-3-5 class 5M3
- Operating temperature : -30°C to 55°C

Dimensions & Weight

- 325 x 280 x 67.3 (mm); 4.83 kg

* By request

Front View

Ambient Light Sensor
Internal Microphone

System LED Indicators

- ✓ System status
- ✓ Battery status
- ✓ Storage status
- ✓ Defrost status

Function Button

- ✓ System on/off
- ✓ LCD turn on/off & defrost on/off
- ✓ Brightness adjust
- ✓ Speaker volume adjust

Communication LED Indicators

- ✓ Wi-Fi enable
- ✓ WWAN enable
- ✓ Bluetooth enable

Friendly Programmable Keys

- ✓ You can configure the programmable buttons via DashON to different commands or keyboard shortcuts to better fit your work style

Rear View

Service Door
- ✓ Memory : DDR3L SO-DIMM slot
- ✓ Storage : M.2 SSD
- ✓ Expansion :
  - 1 x mini PCIe for capture card or other function card
  - 1 x mini PCIe (USB signal only) for WWAN card
  - 1 x mini PCIe for Wi-Fi

Internal / External Antenna Expansion
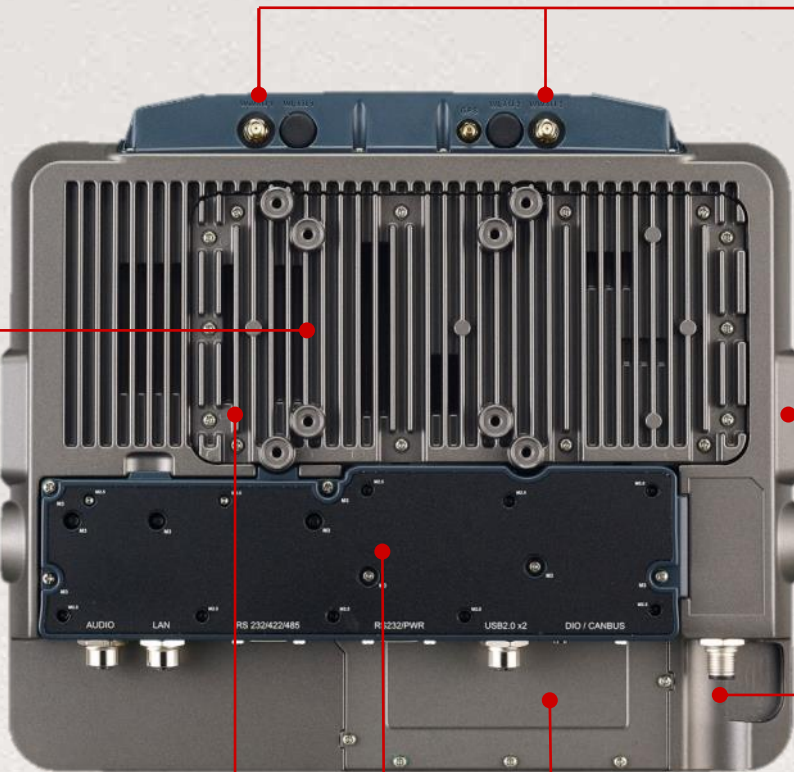- ✓ RP-SMA type: WLAN / WWAN
- ✓ SMB type: GPS

Dual Loud Speaker
- ✓ 90dB SPL @3w/1M listener distance
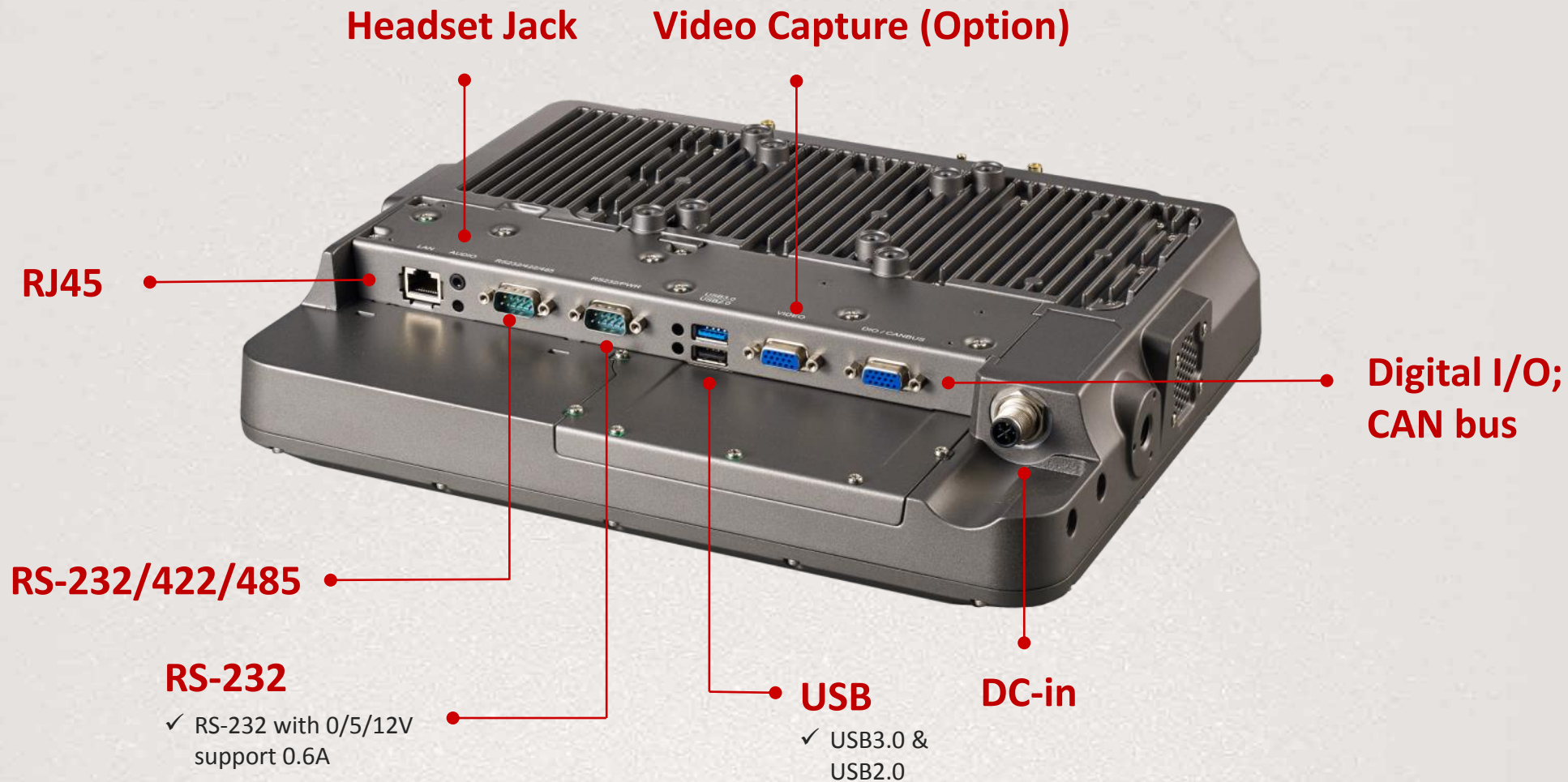
Standard Mounting Interface Cable Position Fixed Design
- ✓ VESA 75 / 100 support
- ✓ Easy for mounting installation
- ✓ Strain relief clamps design

Power Connector

Backup Battery

Waterproof I/O Module (option)

Bottom View

Headset Jack   **Video Capture (Option)**

RJ45

Digital I/O; CAN bus

RS-232/422/485

RS-232
✓ RS-232 with 0/5/12V support 0.6A

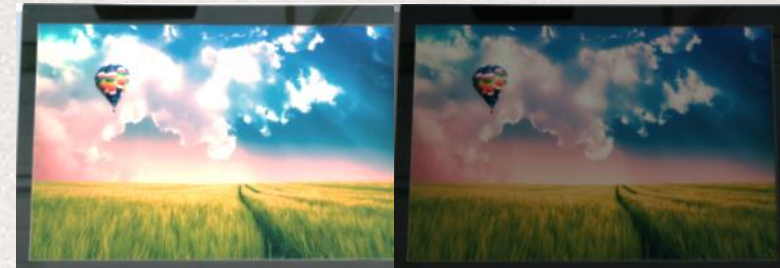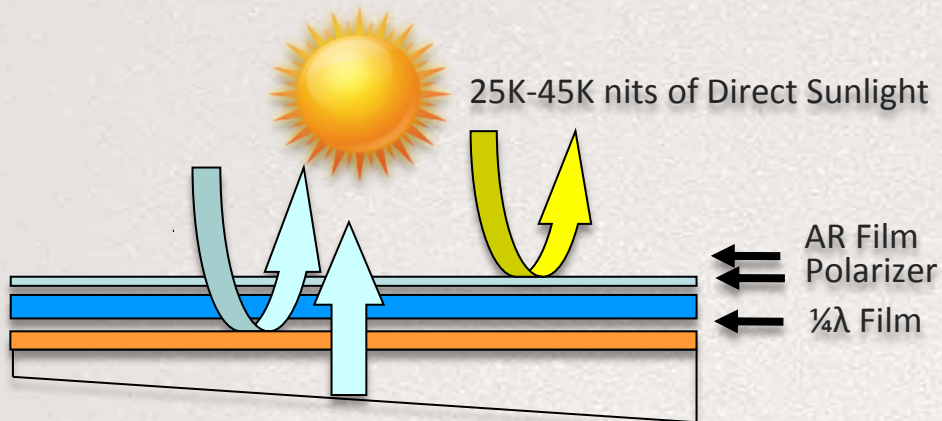**USB**
✓ USB3.0 & USB2.0

DC-in

Features & Peripherals

Superb Visibility

AUTO

Brightness adjustable and auto-dimming

1200 nits high brightness supports auto-dimming

◆ **Anti-reflection touchscreen**

25K-45K nits of Direct Sunlight

AR Film
Polarizer

¼λ Film

Defroster Function

With optional screen defroster, the applications can be extended from outdoor to cold storage environments.

25° C

-30° C

Press defroster button

Durable Features

IP66

✓ **IEC 60529**
IP66

✓ **MIL-STD-810G**

- Vibration (operating)
  Method 514.7 c2/c3/c4;
  IEC 60721-3-5 Class 5M3

- Shock (operating)
  40G at 11ms Terminal / Sawtooth

- Salt fog
  Change1, Method 509.6

✓ **Operating temp.**
  -30°C to 55°C
  (-22°F to 131°F)

◆ **Purpose-built for the most challenging environments**

Waterproof Connectors

Smart Power Management

◆ **Wide power input to fulfill diversified vehicle application requirements**

– 12/24/48 VDC nominal (voltage range: 9 to 60 VDC)

◆ **Ignition sense support with delay on/off setting**

◆ **Hand-rotate connector prevents power cord loosening**
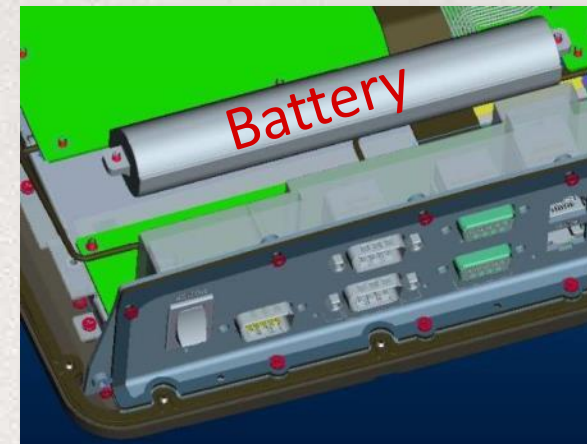
Smart Power Management

◆ **Built-in battery pack as UPS**

- ✓ UPS to support 1.5hours working time

- ✓ Prevent damage from suddenly power loss via UPS battery

- ✓ Power design compliant with ISO-7637-2

REMARK

Battery discharge function will be automatically disabled while operation temperature is over 45°C based on battery protection scheme.

Battery

Seamless Communications

◆ **Gigabit Wi-Fi**

Intel 802.11ac Wi-Fi solution support both 2.4 GHz and 5 GHz bands

◆ **Bluetooth**

Bluetooth 4.0 standard including Bluetooth 3.0 High Speed Bluetooth 4.0 Low Energy (BLE)

◆ **Optional GPS**

GPS / QZSS or GLONASS

◆ **Optional WWAN**

Via internal mini Card

Built-in antennas :
WLAN / Bluetooth

Optional External antennas:
WLAN / Bluetooth/ WWAN / GPS

Dedicated Software

◆ **DashON – System utility for device configuration**

✓ DashON for easily setup the device for test and verification

◆ **Over the air update**

✓ Remote update the utility and application

✓ Over the air update is to save time and resource in field

✓ The completely SDK for quick application development

Accessories

Antenna — **DB9 to OBDII Cable** — **Power Cable**

Antenna & Power Cable

Mounting Kit — U-shaped Bracket — Mount kit for keyboard — Holder kit for Barcode

Mounting Kit

Warehouse Management

Application :

Forklift for outdoor/ indoor

Requirement :

- ✓ Anti-Vibration/Shock

- ✓ IP66 grade waterproof solution

- ✓ 24/48V wide range power input

- ✓ Bluetooth to connect the barcode scanner

- ✓ Wi-Fi for real-time warehouse management

Harbor Freight

Application :

Container handling forklift and material handlers

Requirement :

✓ Anti-Vibration/Shock

✓ IP66 grade waterproof for outdoor

✓ 24/48V wide range power input

✓ Wi-Fi for real-time harbor management

Waste Management

Application :

Garbage pick-up, Route Management, Monitoring

Requirement :

- ✓ GPS for route management

- ✓ 3.5G link to cloud database

- ✓ Backup battery kit

- ✓ Rear side, lateral side camera for safety and behavior record