








# RUGGON

Always on Rugged



## VULCAN X

### 10.4" Vehicle Mount Computer

 IP66	 MIL-STD-810H	 1200 nits	 CANBUS
 Defrost / Defog	 SAE J1939	 9~60VDC	

- ◆ Outdoor display optimizes visibility for day or night
- ◆ The screen defroster option for cold storage applications
- ◆ IP66, MIL-STD-810H and IEC-60721-3-5 5M3 certified
- ◆ Supports CAN bus 2.0B, SAE J1939
- ◆ Complete communication supports fast roaming
- ◆ Rich I/O design for maximum utilization
- ◆ Smart power management with wide power input to fulfill diversified applications
- ◆ Multi format video input option



# Specifications

## System

- ◆ Intel® Core™ i5-8365UE 1.6GHz, optional Intel® Celeron® 4305UE 2.0GHz
- ◆ 4GB DDR4 SODIMM, expandable to 32GB
- ◆ M.2 2280 SSD
- ◆ Built-in 6-axis motion sensor, 2 x speaker
- ◆ OS option : Windows 10 IoT Enterprise

## Display

- ◆ 10.4" XGA TFT LCD with LED backlight (1024 x 768)
- ◆ 1200 nits brightness supports auto-dimming
- ◆ 5-wire resistive touch supports defrost / defog function
- ◆ PCT touchscreen supports glove and rain mode (by request)

## Communication

- ◆ Wi-Fi 802.11 a/b/g/n/ac/v/r/k
- ◆ Bluetooth V5.0
- ◆ Optional 4G LTE / HSPA+ / GPRS or 5G
- ◆ Optional GNSS (GPS/Galileo/GLONASS/BeiDou/QZSS)

## Function Button

- ◆ Programmable button x 7, brightness adjustment x 2, volume adjustment x 2, display on/off x 1
- ◆ Optional defrost / defog button x 1

## I/O Interface

- ◆ RS-232 with power supported x 1
- ◆ RS-232(TX,RX)/422/485 x 1, RS-232(TX,RX) x 2, RS-485 x 2
- ◆ Gigabit Ethernet x 2
- ◆ USB 3.1 x 1, USB 2.0 x2, USB 3.1 type C x 1 (DisplayPort Alt Mode supported)
- ◆ Micro SD slot x 1, Micro SIM slot x 2
- ◆ Optional CAN bus 2.0B x 2 or SAE J1939 x 1
- ◆ DI x 2, DO x 2
- ◆ Mic in x 2, Line out (L/R) x 1
- ◆ Optional video input

## Certifications

- ◆ CE, FCC, CB

## Power management

- ◆ 9~60 VDC input
- ◆ Ignition sense with delay on/off setting
- ◆ Wake on RTC
- ◆ Internal battery for graceful shutdown

## Rugged Features

- ◆ IEC 60529 IP66, IEC 60721-3-5 class 5M3
- ◆ Vibration (operating) : MIL-STD-810H, Method 514.8 C2/C4/C6
- ◆ Shock (operating) : MIL-STD-810H, Method 516.8, Procedure 1, functional shock
- ◆ Optional Salt fog : MIL-STD-810H, Method 509.7

## Environmental (Tested to MIL-STD-810H standards)

- ◆ Operating temperature -30°C to +55°C
- ◆ Storage temperature -40°C to +70°C
- ◆ Humidity 95%, non-condensing

## Mechanical Spec

- ◆ VESA 75 / 100
- ◆ Dimension (W x H x D) : 278 x 234 x 57 (mm)
- ◆ Weight : 3.2kg

## In-box Accessory

- ◆ External power cable

## Ordering Information

- ◆ VX-501-R (P/N:72U819700-A0001)  
VULCAN X with 10.4" LCD and resistive touch including Intel Core i5-8365UE 1.6GHz, 4GB DDR4, 128GB SSD, WIFI / BT
- ◆ VX-501C-R (P/N:72U819700-A0002)  
VULCAN X with 10.4" LCD and resistive touch including Intel Celeron 4305UE 2.0GHz, 4GB DDR4, 128GB SSD, WIFI / BT
- ◆ VX-501-P (P/N:72U819700-A0003)  
VULCAN X with 10.4" LCD and PCT touch including Intel Core i5-8365UE 1.6GHz, 4GB DDR4, 128GB SSD, WIFI / BT
- ◆ VX-501C-P (P/N:72U819700-A0004)  
VULCAN X with 10.4" LCD and PCT touch including Intel Celeron 4305UE 2.0GHz, 4GB DDR4, 128GB SSD, WIFI / BT

# Accessories



Mounting Kit



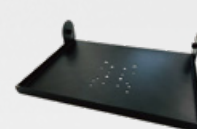
Power Cable



Antenna



U-Shape Bracket



Keyboard Tray



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