



**6th Gen Intel® Core™ Processor
In-Vehicle Fanless System**



VC653-SU

ULT

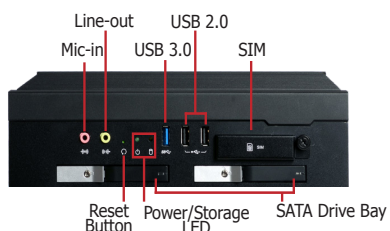


► Features

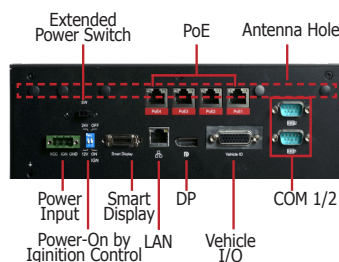
- ULT-based Fanless In-Vehicle System
- 2 x SATA 3.0 External Drive Bay
- Rich I/O ports: 1 Intel GbE, 4 COM, 1 USB 3.0, 3 USB 2.0
- Supports 3 Mini PCIe, 1 M.2, 2 SIM
- Extended operating temperature: -30 to 70°C



► Panel

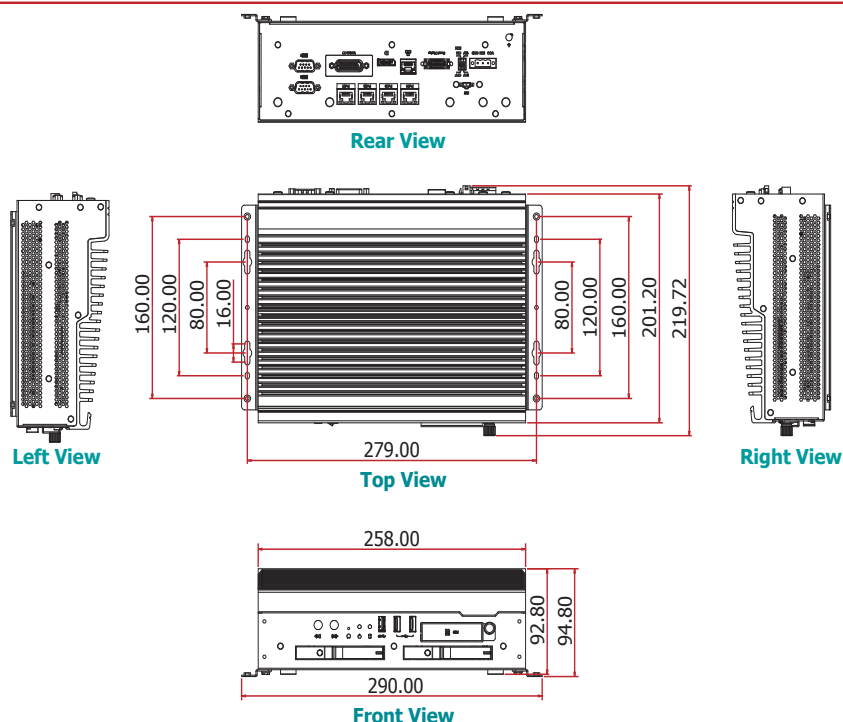


Front View



Rear View

► Dimensions





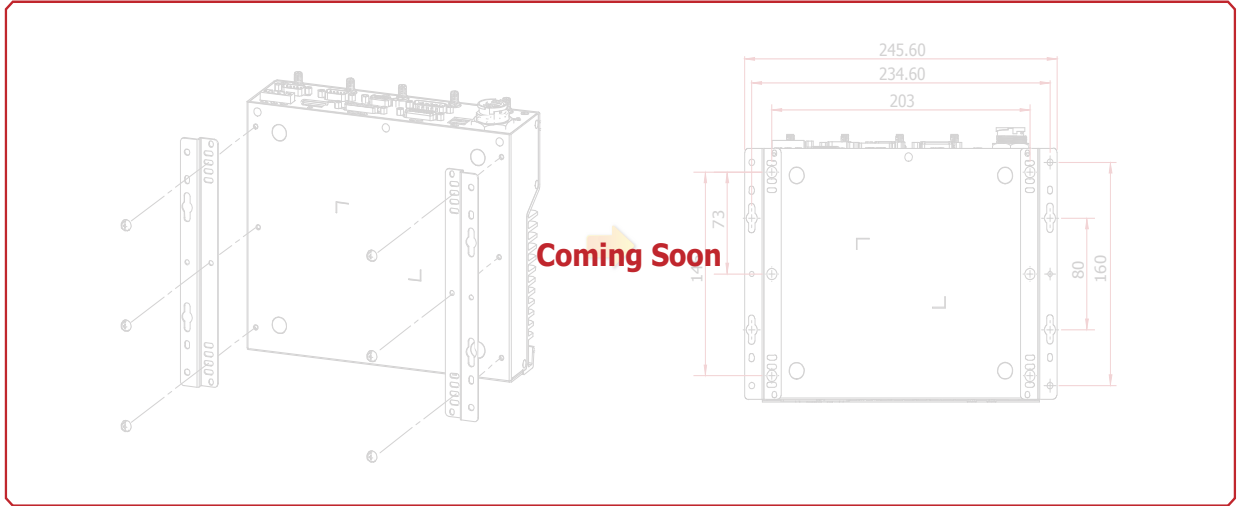
Specifications

SYSTEM	Processor	6th Generation Intel® Core™ Processors, BGA 1356 Intel® Core™ i7-6600U Processor, Dual Core, 4M Cache, 2.6GHz (3.4GHz), 15W Intel® Core™ i5-6300U Processor, Dual Core, 3M Cache, 2.4GHz (3.0GHz), 15W Intel® Core™ i3-6100U Processor, Dual Core, 3M Cache, 2.3GHz, 15W
	Memory	Two 204-pin SODIMM up to 16GB
	BIOS	Dual Channel DDR3L 1600MHz Insyde SPI 128Mbit
GRAPHICS	Controller	Intel® HD Graphics
	Display	1 x Smart Display 1 x DP++ VGA: resolution up to 1920x1200 @ 60Hz DP++: resolution up to 4096x2304 @ 60Hz
STORAGE	External/Internal	2 x SATA 3.0 Drive Bays (RAID 0/1)
EXPANSION	Interface	2 x Full-size Mini PCIe (PCIe/USB) 1 x Half-size Mini PCIe (PCIe/USB) 1 x M.2 (PCIe x4) 2 x SIM
AUDIO	Audio Codec	Realtek ALC888 5.1-channel
ETHERNET	Controller	1 x Intel® I210AT PCIe (10/100/1000Mbps)
LED	Indicators	1 x Power LED 2 x Storage LED
I/O	Ethernet	1 x GbE (RJ-45)
	Serial	2 x RS-232 (DB-9)
	USB	1 x USB 3.0 (type A) 2 x USB 2.0 (type A)
	Vehicle I/O	8-bit GPIO 2 x UART (RX/TX only) 2 x CANBus 1 x J1708 (Supports Isolation)
	PoE	4 x POE (Optional) Support 802.11af up to 15.4W out per port
	Display	1 x Smart Display incl. VGA, 12V out, Audio out and USB 1 x DP++
	Audio	1 x Mic-in, 1 x Line-out
	Buttons	1 x Reset Button
	Antennas	5 x Antenna Hole
	Output & Interval	System Reset, Programmable via Software from 1 to 255 Seconds
WATCHDOG TIMER	Type	Isolated 9~36V DC-in with Ignition control
POWER	Connector	3-pin Terminal Block (VCC/ACC/GND)
OS SUPPORT		Win7 (default), WES 7, Win10 IoT Enterprise Linux Ubuntu 16.04
MECHANISM	Construction	Aluminum + Metal Aluminum
	Mounting	Wall Mount (available upon request)
	Dimensions (W x H x D)	TBD
	Weight	TBD
ENVIRONMENT	Operating Temperature	-30 to 70°C (SSD) -20 to 50°C (HDD)
	Storage Temperature	-40 to 85°C
STANDARDS AND CERTIFICATIONS	Shock	MIL-STD 810G 516.6, 11ms (Only SSD Support)
	Vibration	MIL-STD 810G 514.6C-3
	Certifications	CE, FCC Class B, ECE R10, E-MARK (E13)



VC653-SU

► **Wall Mounting**



VC653-SU



► **Ordering Information**

Model Name	Part Number	Description
VC653-SU	TBD	Fanless, Intel Skylake ULV Core i processors, GPS, CAN Bus, Isolated 9-36V SYSTEM ROHS
VC653-SU614	TBD	Fanless, Intel Core-i3-6100U, 1 LAN, GPS, 2 CAN Bus, 4 UART, 4GB DDR3L, Isolated 9-36V SYSTEM ROHS
VC653-SU638	TBD	Fanless, Intel Core-i5-6300U, 1 LAN, GPS, 2 CAN Bus, 4 POE, 4 UART, 8GB DDR3L, Isolated 9-36V SYSTEM ROHS
VC653-SU668	TBD	Fanless, Intel Core-i7-6600U, 1 LAN, GPS, 2 CAN Bus, 4 POE, 4 UART, 8GB DDR3L, Isolated 9-36V SYSTEM ROHS

► **Packing List**

• 1 VC653-SU system unit
• 6 mounting screws for Mini PCIe module
• 1 3-pole female terminal block
• 1 Quick Installation Guide

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