



**Intel Atom® Processor E3800 Series  
In-Vehicle Fanless System**



**VC653-BT**

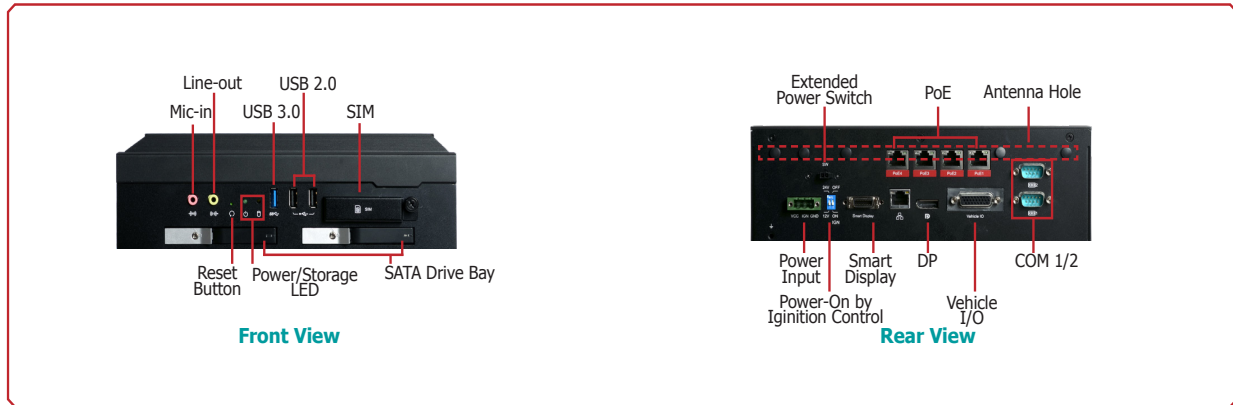


**Features**

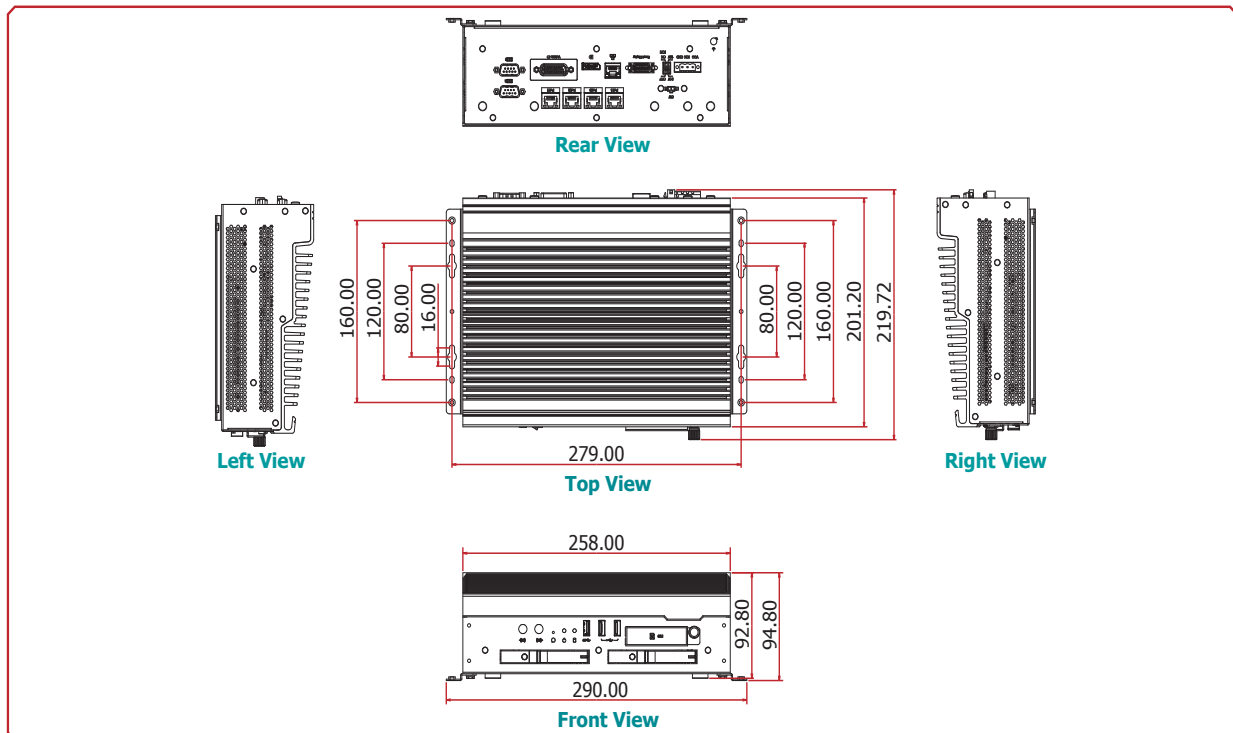
- Atom-based Fanless In-Vehicle System
- 2 x SATA 2.0 External Drive Bay
- Rich I/O ports: 4 COM, 1 USB 3.0, 3 USB 2.0
- Supports 3 Mini PCIe, 1 M.2, 2 SIM
- Extended operating temperature: -30 to 70°C



**Panel**



**Dimensions**





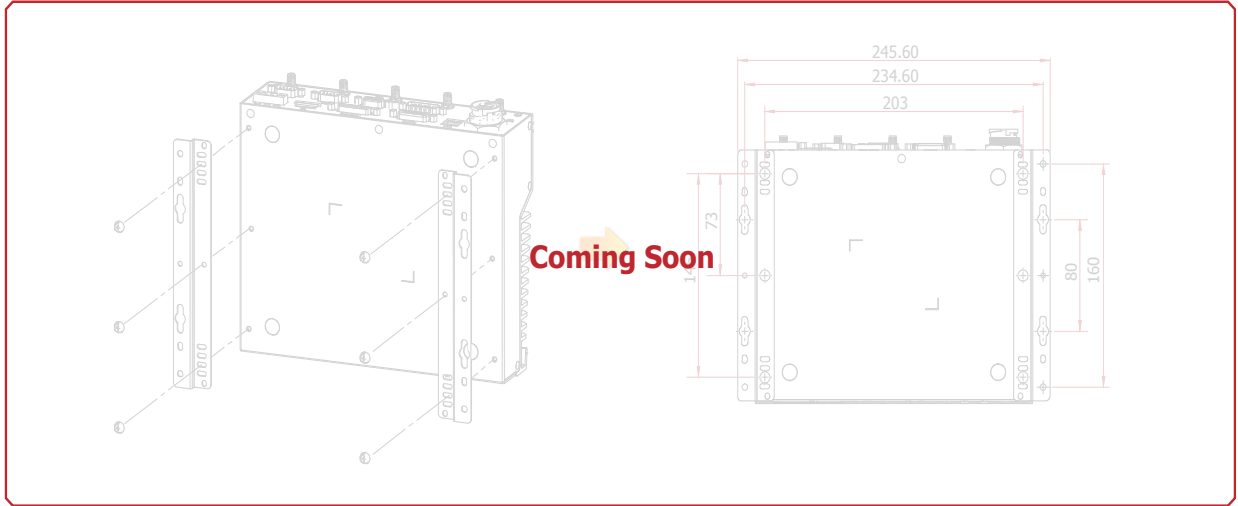
**Specifications**

<b>SYSTEM</b>	<b>Processor</b>	Intel Atom® Processor E3800 Series, BGA 1170 Intel Atom® E3845, Quad Core, 2M Cache, 1.91GHz, 10W Intel Atom® E3827, Dual Core, 1M Cache, 1.75GHz, 8W
	<b>Memory</b>	Two 204-pin SODIMM up to 8GB Dual Channel DDR3L 1333MHz
	<b>BIOS</b>	AMI SPI 64Mbit
<b>GRAPHICS</b>	<b>Controller</b>	Intel® HD Graphics
	<b>Display</b>	1 x Smart Display 1 x DP++ VGA: resolution up to 1920x1200 @ 60Hz DP++: resolution up to 2560x1600 @ 60Hz
<b>STORAGE</b>	<b>External/Internal</b>	2 x SATA 2.0 Drive Bays (External swappable)
<b>EXPANSION</b>	<b>Interface</b>	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
<b>AUDIO</b>	<b>Audio Codec</b>	Realtek ALC888 5.1-channel
<b>LED</b>	<b>Indicators</b>	1 x Power LED 2 x Storage LEDs
<b>I/O</b>	<b>Serial</b>	2 x RS-232 (DB-9)
	<b>USB</b>	1 x USB 3.0 (type A) 2 x USB 2.0 (type A)
	<b>Vehicle I/O</b>	8-bit GPIO 2 x UART (RX/TX only) 2 x CANBus (Supports Isolation)
	<b>PoE</b>	4 x POE (Optional) Support 802.11af up to 15.4W out per port
	<b>Display</b>	1 x Smart Display incl. VGA, 12V out, Audio out and USB 1 x DP++
	<b>Audio</b>	1 x Mic-in, 1 x Line-out
	<b>Buttons</b>	1 x Reset Button
	<b>Antennas</b>	5 x Antenna Hole
<b>WATCHDOG TIMER</b>	<b>Output &amp; Interval</b>	System Reset, Programmable via Software from 1 to 255 Seconds
<b>POWER</b>	<b>Type</b>	Isolated 9~36V DC-in with Ignition control
	<b>Connector</b>	3-pin Terminal Block (VCC/ACC/GND)
<b>OS SUPPORT</b>		Win7 (default), WES 7, Win10 IoT Enterprise Linux Ubuntu 16.04
<b>MECHANISM</b>	<b>Construction</b>	Aluminum + Metal Aluminum
	<b>Mounting</b>	Wall Mount (available upon request)
	<b>Dimensions (W x H x D)</b>	TBD
	<b>Weight</b>	TBD
<b>ENVIRONMENT</b>	<b>Operating Temperature</b>	-30 to 70°C (SSD) -20 to 50°C (HDD)
	<b>Storage Temperature</b>	-40 to 85°C
<b>STANDARDS AND CERTIFICATIONS</b>	<b>Shock</b>	MIL-STD 810G 516.6, 11ms (Only SSD Support)
	<b>Vibration</b>	MIL-STD 810G 514.6C-3
	<b>Certifications</b>	CE, FCC Class B, ECE R10, E-MARK (E13)



**VC653-BT**

**Wall Mounting**



VC653-BT



► **Ordering Information**

Model Name	Part Number	Description
VC653-BT	TBD	Fanless, Intel Baytrail Atom processors, GPS, CAN Bus, Isolated 9-36V SYSTEM ROHS
VC653-BT454	TBD	Fanless, Intel E3845, 1 LAN, GPS, 2 CAN Bus, 4 UART, 4GB DDR3L, Isolated 9-36V SYSTEM ROHS

► **Packing List**

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

## Assured Systems

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