



**Intel Atom® Processor E3900 Series  
In-Vehicle Box PC**



**VC230-AL**

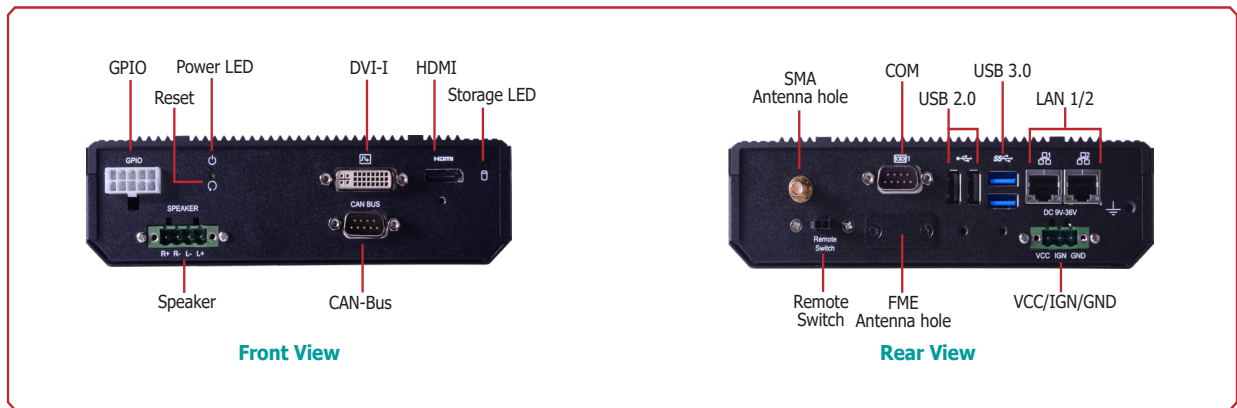


**► Features**

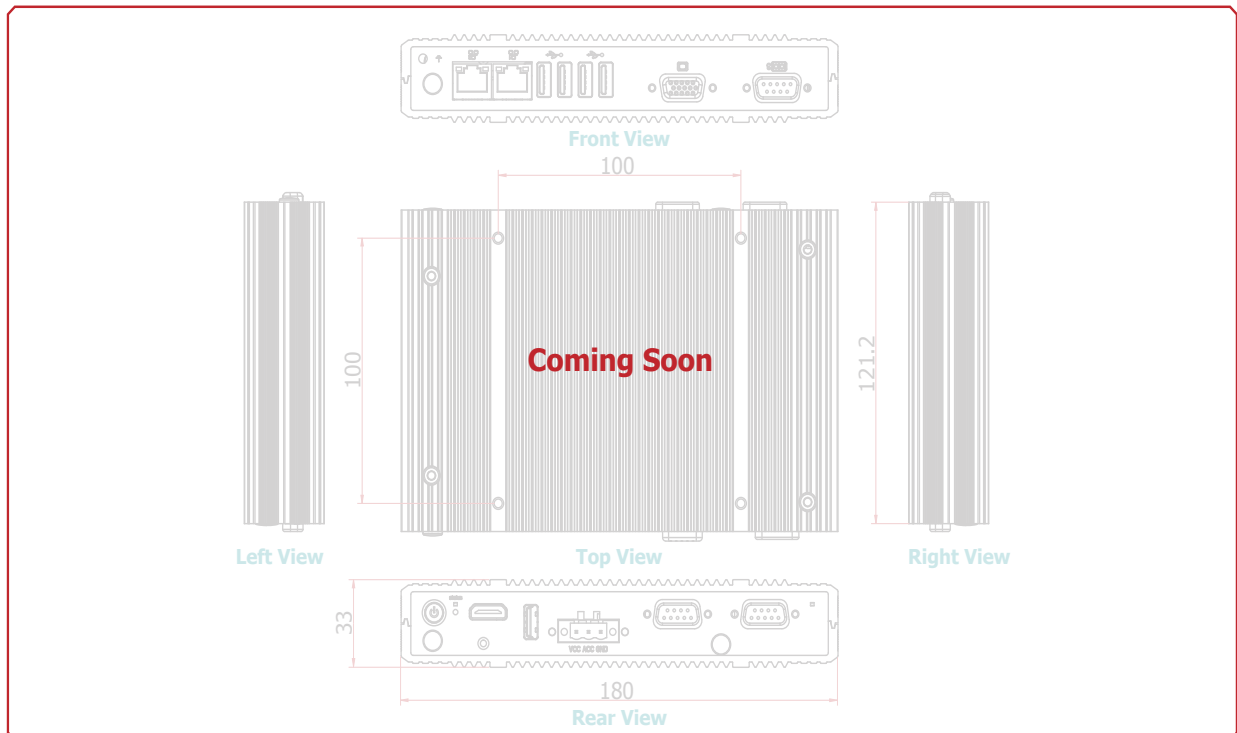
- Anti-vibration and fanless In-Vehicle computer
- Supports ignition delay on/off function
- 1 mSATA, eMMC (optional)
- GPS Onboard
- 3 SIM Slots Onboard
- Supports Wi-Fi, 3G, and GPRS application



**► Panel**



**► Dimensions**





**Specifications**

<b>SYSTEM</b>	<b>Processor</b>	Intel Atom® Processor E3900 Series, BGA 1296 Intel Atom® x7-E3950 Processor, Quad Core, 2M Cache, 1.6GHz (2.0GHz), 12W Intel Atom® x5-E3940 Processor, Quad Core, 2M Cache, 1.6GHz (1.8GHz), 9W Intel Atom® x5-E3930 Processor, Dual Core, 2M Cache, 1.3GHz (1.6GHz), 6.5W
	<b>Memory</b>	1 SODIMM Memory Support up to 8GB Single Channel DDR3L 1600/1866MHz
	<b>BIOS</b>	AMI SPI 64Mbit
<b>GRAPHICS</b>	<b>Controller</b>	Intel® HD Graphics
	<b>Display</b>	1 x HDMI HDMI: resolution up to 3840x2160 @ 60Hz 1 x DVI-I DVI-I: resolution up to 2560x1600 @ 60Hz
	<b>Dual Displays</b>	HDMI + DVI-I
<b>STORAGE</b>	<b>External/Internal</b>	4GB/8GB/16GB/32GB eMMC Onboard (available upon request)
<b>EXPANSION</b>	<b>Interface</b>	1 x Full-size Mini PCIe (PCIe/USB/Daul micro SIM) 1 x Full-size Mini PCIe (PCIe/USB/micro SIM) 1 x Half-size mSATA
	<b>Controller</b>	2 x Intel® I210AT PCIe (10/100/1000Mbps)
	<b>GPS</b>	u-blox NEO-M8N onboard NEO-M8U/L as option to support Dead Reckoning
<b>LED</b>	<b>Indicators</b>	1 x Power LED 1 x Storage LED
<b>FRONT I/O</b>	<b>Display</b>	1 x HDMI 1 x DVI-I
	<b>DIO</b>	8-bit Isolated DIO up to 30V Input 4 x DI 4 x DO
	<b>CAN-Bus</b>	1 x DB9 include 2 x CAN-Bus Ports
	<b>Buttons</b>	1 x Reset Button
	<b>Audio</b>	1 x Speaker Out with Dual 5w Amp
	<b>REAR I/O</b>	<b>Ethernet</b>
<b>REAR I/O</b>	<b>Serial</b>	1 x RS-232/422/485 (DB-9)
	<b>USB</b>	2 x USB 2.0 (type A) 2 x USB 3.0
	<b>Antennas</b>	1 x SMA Antenna Hole 1 x FME Antenna Hole
	<b>WATCHDOG TIMER</b>	<b>Output &amp; Interval</b>
<b>POWER</b>	<b>Type</b>	Wide Range 9~36V with Vehicle Control
	<b>Connector</b>	3-pin Terminal Block (VCC/ACC/GND)
<b>OS SUPPORT</b>		Windows 10 64-bit Ubuntu 18.04 CentOS 7
<b>MECHANISM</b>	<b>Construction</b>	Aluminum + SPGC Metal
	<b>Mounting</b>	Wall/VESA Mount
	<b>Dimensions (W x H x D)</b>	180mm x 50mm x 121.2mm (W x H x D)
	<b>Weight</b>	TBD
<b>ENVIRONMENT</b>	<b>Operating Temperature</b>	-40 to 70°C
	<b>Storage Temperature</b>	-40 to 85°C
<b>STANDARDS AND CERTIFICATIONS</b>	<b>Shock</b>	MIL-STD-810G 516.6
	<b>Vibration</b>	MIL-STD 810G 514.6C-3
	<b>Certifications</b>	CE/FCC Class B/E-mark (E13)

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

### US

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +1 347 719 4508  
Support: +1 347 719 4508

1309 Coffeen Ave  
Ste 1200  
Sheridan  
WY 82801  
USA

### EMEA

[sales@assured-systems.com](mailto:sales@assured-systems.com)

Sales: +44 (0)1785 879 050  
Support: +44 (0)1785 879 050

Unit A5 Douglas Park  
Stone Business Park  
Stone  
ST15 0YJ  
United Kingdom

VAT Number: 120 9546 28  
Business Registration Number: 07699660