



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



VC230-AL

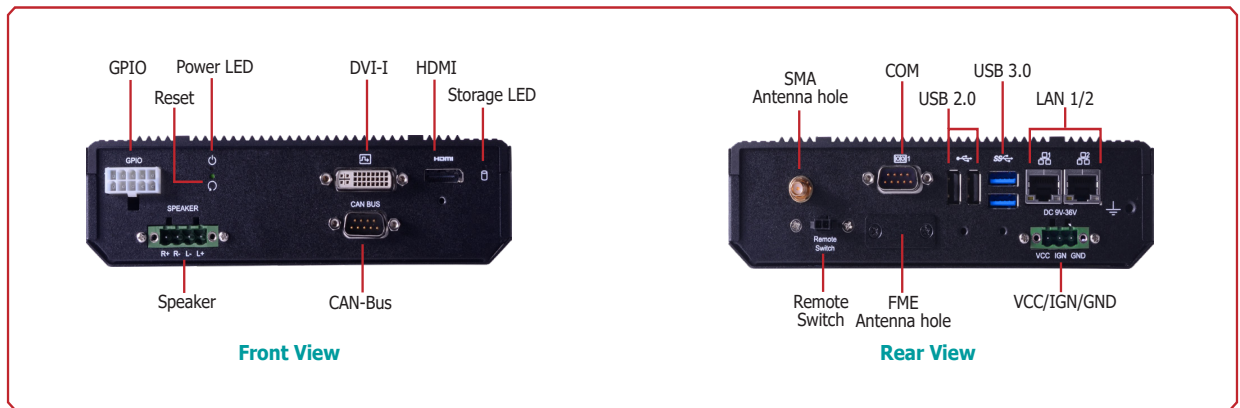


► Features

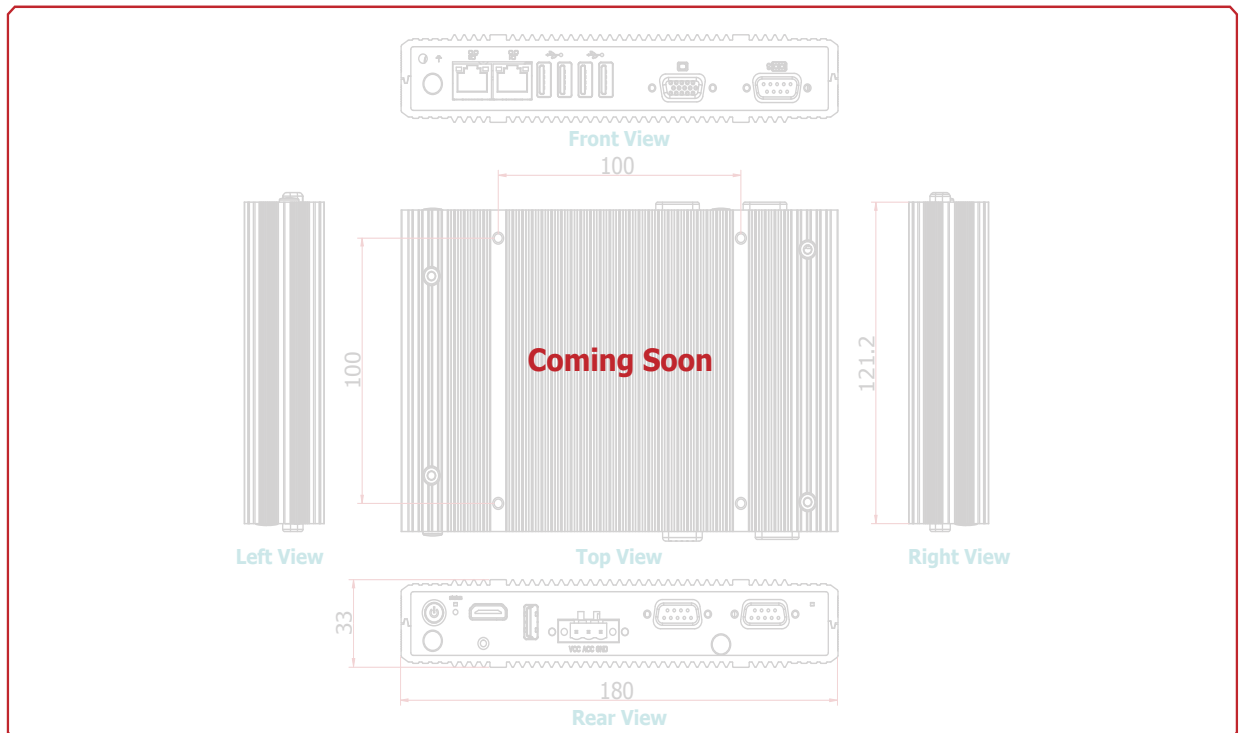
- Anti-vibration and fanless In-Vehicle computer
- Supports ignition delay on/off function
- 1 mSATA, eMMC (optional)
- GPS Onboard
- 3 SIM Slots Onboard
- Supports Wi-Fi, 3G, and GPRS application



► Panel



► Dimensions





Specifications

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

Assured Systems

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