Intel Atom® Processor E3900 Series
In-Vehicle Box PC

intel IoT Solutions Alliance

VC230-AL

Atom



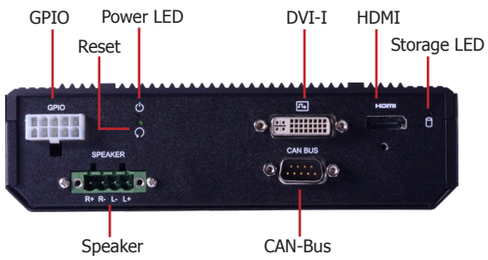
Fanless

Features

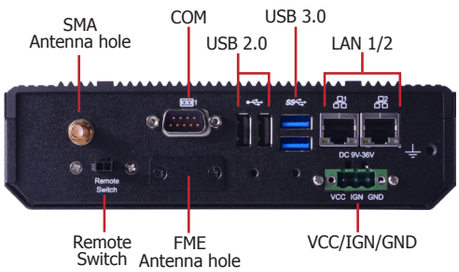
- Anti-vibration and fanless In-Vehicle computer
- Supports ignition delay on/off function
- 1 mSATA, eMMC (optional)
- GPS Onboard
- 3 SIM Slots Onboard
- Supports Wi-Fi, 3G, and GPRS application



Panel

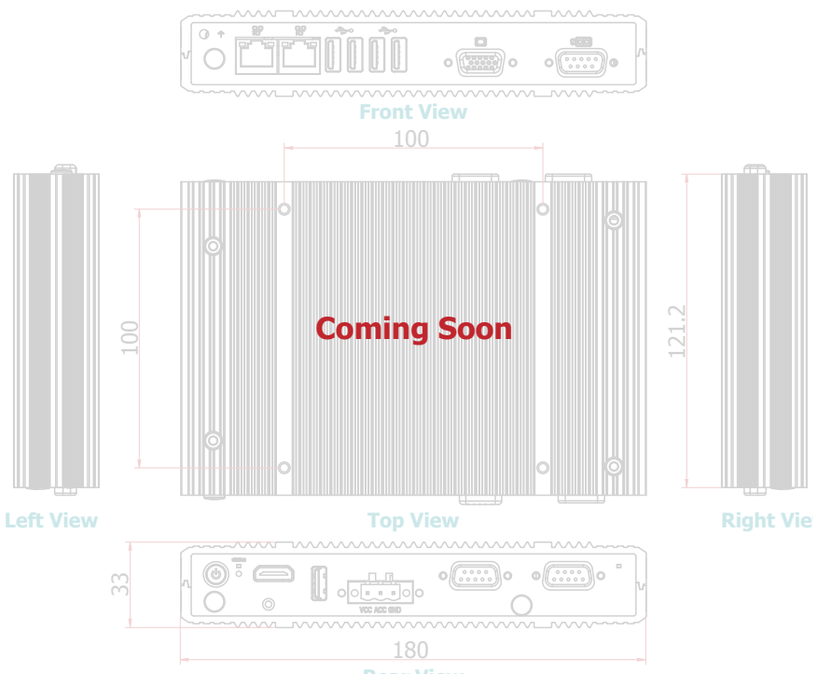


Front View



Rear View

Dimensions

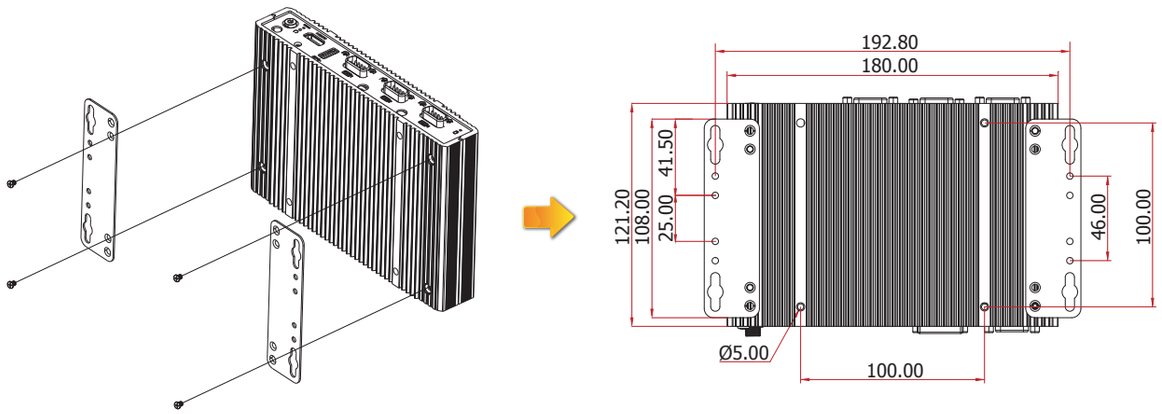


Specifications

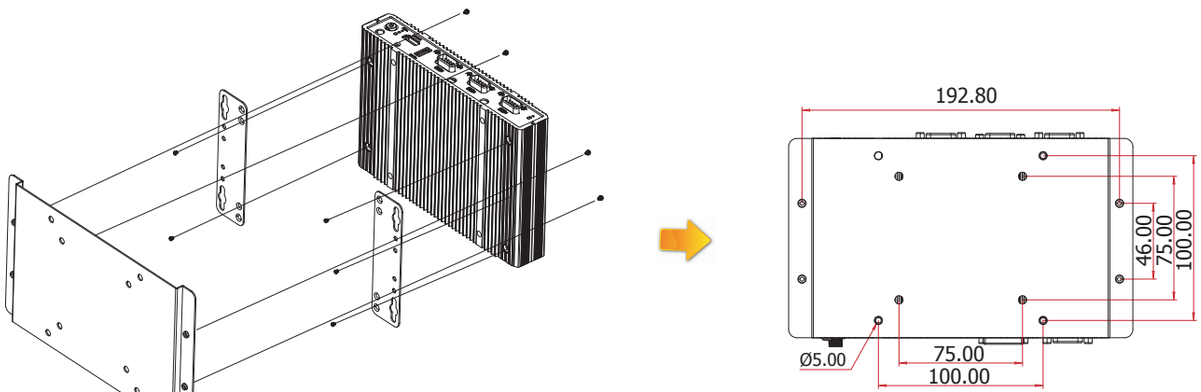
SYSTEM	**Processor**	Intel Atom® Processor E3900 Series, BGA 1296 Intel Atom® x7-E3950 Processor, Quad Core, 2M Cache, 1.6GHz (2.0GHz), 12W Intel Atom® x5-E3940 Processor, Quad Core, 2M Cache, 1.6GHz (1.8GHz), 9W Intel Atom® x5-E3930 Processor, Dual Core, 2M Cache, 1.3GHz (1.6GHz), 6.5W
	Memory	1 SODIMM 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**	2 x GbE (RJ-45)
	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**	System Reset, Programmable via Software from 1 to 255 Seconds
POWER	**Type**	Wide Range 9~36V with Vehicle Control
	Connector	3-pin Terminal Block (VCC/IGN/GND)
OS SUPPORT		Windows 10 64-bit Linux 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)

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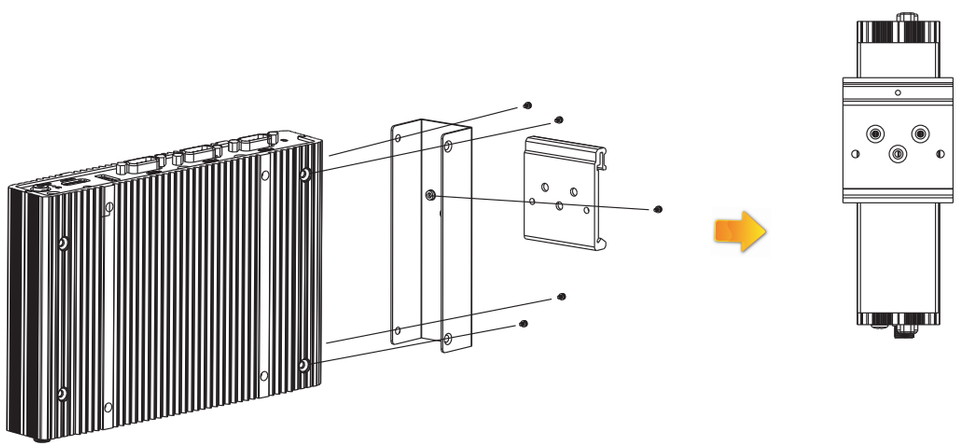
Wall Mounting



VESA Mounting



DIN Rail Mounting



Ordering Information

Model Name	Part Number	Description
VC230-BT3051-252	750-EC7000-E00G	Fanless, Intel Atom E3825, 2 LAN, 1 HDMI, 1 VGA, 3 COM, 5 USB, 2GB DDR3L memory down, RoHS
VC230-BT3051-454	750-EC7000-F00G	Fanless, Intel Atom E3845, 2 LAN, 1 HDMI, 1 VGA, 3 COM, 5 USB, 4GB DDR3L memory down, RoHS

Optional Items

Optional Items	Part Number	Description
mSATA	785-MS64GMF	mSATA Card, 64GB MLC, RoHS
	785-MS32GMF	mSATA Card, 32GB MLC, RoHS
	785-MS16GMF	mSATA Card, 16GB MLC, RoHS
	785-MS08GMF	mSATA Card, 8GB MLC, RoHS
Wi-Fi	761-110091-000G	Wi-Fi kit, RoHS
Power Cord	785-PWRD	Power cord, Standards (USA/EUR/CH), 1.8m, RoHS
Power Adapter	671-106002-102G	60W, 12V/5A
	671-106009-000G	60W, 19V/3.15A
Wall Mount	761-EC7000-000G	VC230-BT Wall Mount Kit, RoHS
VESA Mount	761-EC7000-100G	VC230-BT VESA Mount Kit, RoHS

785-XXX is a group number instead of a unique part number. Please contact your regional sales representative if you need more information.

Packing List

- 1 VC230-AL system unit
- 6 mounting screws for Mini PCIe module
- 1 3-pole female terminal block
- 1 Quick Installation Guide

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