

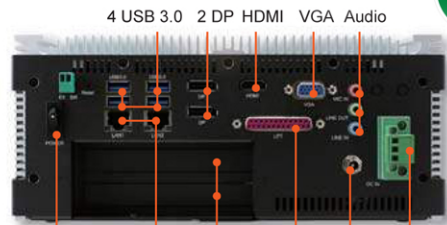
Rugged Embedded System

4th Gen Intel®Core™ i3 BGA Processor, Intel® QM87 Express Chipset, 4GB DDR3L 1333/1600 SODIMM, Rich I/O, 1 VGA, 1 HDMI, 2 DP, 8 COM, 8 USB, 1 LPT, 2 PCI, 8 In/8 Out GPIO, 1 Min-In, 1 Line-In, 1 Line-Out, 1 x EXT PW Switch, Expansion Slot Supports 2 Mini PCIe Slot & 2 PCI Slot. Triple Display, CRT + DP + DP & HDMI + DP + DP, Rugged Design for Vibration & Shock Protection, and Intel 80GB S3500 SSD with Windows 7 Professional License & Installation and tested.

Model: VBX8700PCI



8 In/Out GPIO
8 COM
4 USB 2.0



4 USB 3.0
2 DP
HDMI
VGA
Audio

Power Switch
2 LAN
2 Expansion Slots
LPT
Lockable DC Jack
Phoenix Type Connector

Features

- ❖ Onboard 4th Gen Intel® Core™ i7/i5/i3 BGA Processor
- ❖ Supports 3rd Gen Intel® Core™ i7/i5/i3 rPGA 988B Processor
- ❖ Intel® QM87/QM77 Express Chipset
- ❖ Two 204-Pin SO-DIMM Socket Up to 16GB DDR3L 1333/1600MHz SDRAM
- ❖ I Rich I/O, 1 x VGA, 1 x HDMI, 2 x DP, 8 x COM, 8 x USB, 1 x LPT, 2 x PCI, 8 In/8 Out GPIO, 1 x Min-In, 1 x Line-In, 1 x Line-Out, 1 x EXT PW Switch
- ❖ Expansion Slot Supports 2 Mini PCIe Slot & 2 PCI Slot Triple Display, VGA + DP + DP & HDMI + DP + DP
- ❖ Rugged Design for Vibration & Shock Protection
- ❖ Supports Software Base RAID 0/1
- ❖ Service Window, Easy to Install 2.5" Drive Bay, DOM, Memory, Mini PCIe Module and Maintenance
- ❖ Optional: PCI + PCI-e x16 Riser Card, 1 x PCI-e x16 Riser Card, Table Mount Bracket, +18Vdc ~ +75Vdc Wide Range DC Power Input Module

Specifications

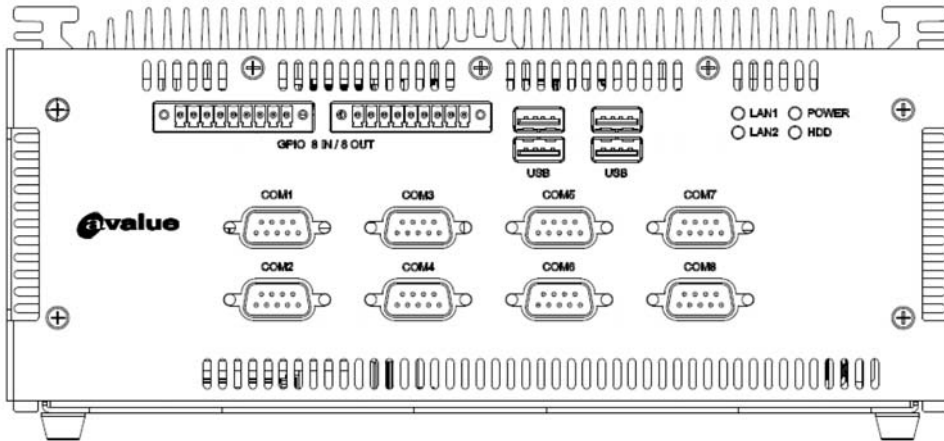
Board	EAP-CE02
CPU	4th Gen Intel® Core™ i7-4700EQ 4-Core 3.4GHz processor 4th Gen Intel® Core™ i5-4422E, 2-Core, 1.8GHz processor 4th Gen Intel® Core™ i3-4110E, 2-Core, 2.6GHz processor
System Chipset	Intel® QM87 Express Chipset
System Memory	2 x 204-Pin DDR3L 1333/1600MHz SO-DIMM up to 16 GB
Expansion & Storage	
Expansion	2 x PCI, 2 x Mini PCIe
Storage	2 x 2.5" Drive Bay
I/O	
USB	4 x USB 2.0, 4 x USB 3.0
COM	Port 4 x RS-232, 4 x RS-232/422/485 (Can be set as RS-232/422/485 by BIOS)
Other	1 x LPT Port, Power on/off (Control-By-Wire), 2 x Knockouts for Antenna Mounting
DIO	16bit GPIO
Display	
Chipset	Intel® QM87 Chipset Integrated, Supports triple display
Resolution	VGA:Max. resolution 1920x1200 @ 60Hz HDMI:Max. resolution 4000x2000 @ 25Hz DP:Max. resolution 1920x1200 @ 60Hz DP:Max. resolution 1920x1200 @ 60Hz

Mechanical & Environmental	
Mounting Kit	Wall Mount kit (Standard) Wall Mount kit (Optional)
Dimension (L x W x H)	9.84" x 10.63" x 4.45" (250mm x 270mm x 113mm)
Operating Temperature	-10 ~ 60°C (w/ SSD/ DOM), Ambient w/ Air Flow; i5/ i3 -10 ~ 50°C (w/ SSD/ DOM), Ambient w/ Air Flow; i7
Storage Temperature	-40 ~ 75°C (-40 ~ 167°F)
Relative Humidity	0% ~ 90% Relative Humidity, Non-condensing
Vibration Protection	With SSD/mSATA : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis
Shock Protection	With SSD/mSATA : 50Grms, IEC 60068-2-27, Half Sine, 11ms
Certification & Software Support	
Certification Information	CE, FCC Class A
OS Information	Win 8, Win 7, Linux

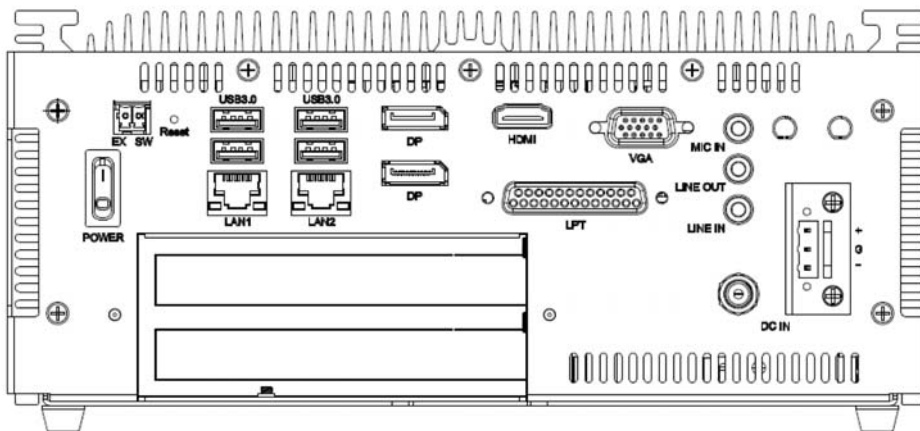
Audio	
Chipset	Realtek ALC892, supports 5.1-CH
Audio Interface	Mic-In, Line-In and Line-Out
Ethernet	
LAN Chip	1 x Intel® 82579LM, 1 x Intel® 82574L
Ethernet Interface	10/100/1000 Base-Tx Gigabit Ethernet Compatible
LAN Port	2 x RJ-45
Power Requirement	
Power Requirement	+12V ~ +26V, Optiaonl +18Vdc~+75Vdc DC/DC Wide Range Power Module
ACPI Single Power	ATX Support S0, S3, S4, S5; ACPI 1.0b and 2.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Adapter	Optional

System Overview

Front View



Rear View



Connectors

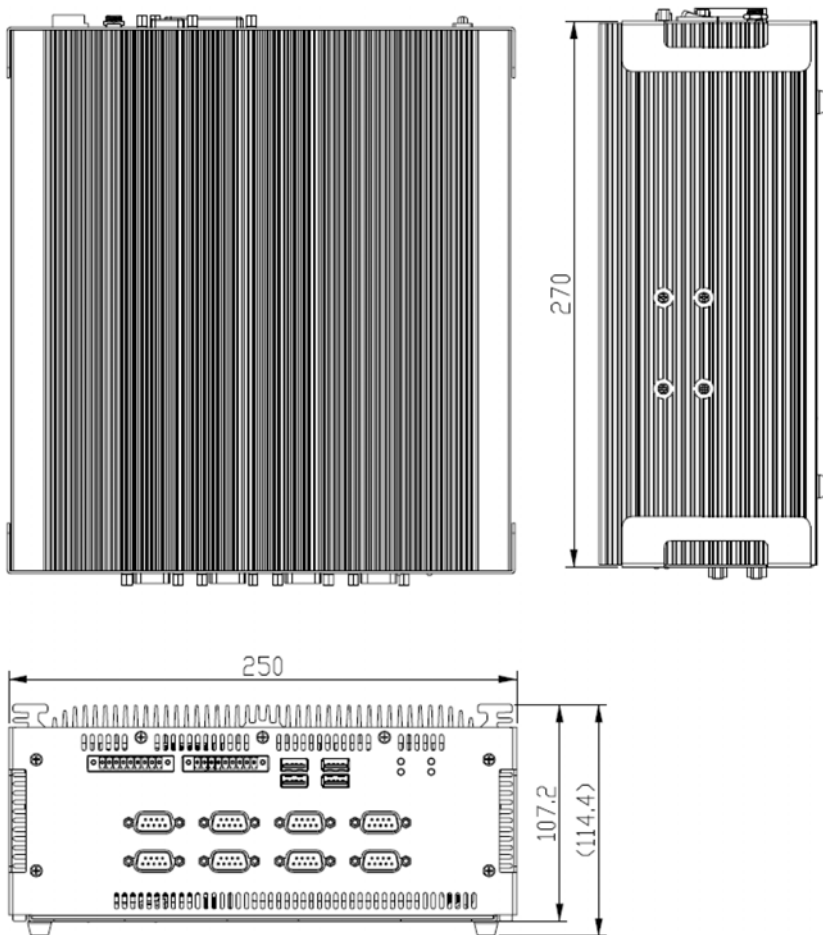
Label	Function	Note
COM1~8	Serial port connector 1~8	
DC-IN	DC power-in connector (Phoenix & Lockable DC Jack)	
EX SW	Power button Extension connector	1 x 2-pin Phoenix Type
GPIO 8IN/8OUT	Digital I/O	2 x 9-pin Phoenix Type
HDD	HDD Indicator	

Quick Reference Guide

Reset	Reset button
LAN1	RJ-45 Ethernet 1
LAN2	RJ-45 Ethernet 2
Audio Jack	MIC IN, LINE OUT and LINE IN
LPT	LPT connector
DP	DP connector
Power	System power switch
USB	USB 2.0 connector x 4 USB 3.0 connector x 4
VGA	VGA connector
HDMI	HDMI connector

System Dimensions

Front & Top View



(Unit: mm)