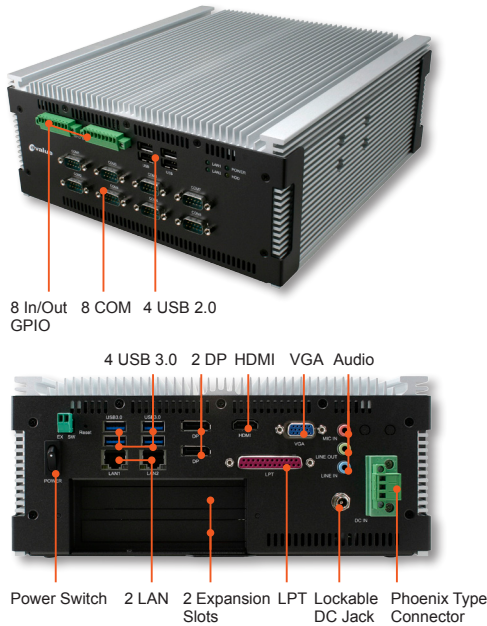




Features

- 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
- IRich 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



Model Name	EPS-QM87	EPS-QM77
Board	EAP-CE02 + ESM-QM87	EAP-CE02 + ESM-QM77
Processor	4 th Gen Intel® Core™ i7-4700EQ 4-Core 3.4GHz processor 4 th Gen Intel® Core™ i5-4422E, 2-Core, 1.8GHz processor 4 th Gen Intel® Core™ i3-4110E, 2-Core, 2.6GHz processor	3 rd Gen Intel® Core™ i7-3610QE 4-Core 2.3GHz processor 3 rd Gen Intel® Core™ i5-3610ME 2-Core 2.7GHz processor 3 rd Gen Intel® Core™ i3-3120ME 2-Core 2.4GHz processor
System Chipset	Intel® QM87 Express Chipset	Intel® QM77 Express Chipset
System Memory	2 x 204-Pin DDR3L 1333/1600MHz SO-DIMM up to 16 GB	
Watchdog Timer	H/W Reset: 1sec.~255min. and 1sec. or 1min./step	
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	Intel® QM77 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	VGA:Max. resolution 1920x1200 @ 60Hz HDMI:Max. resolution 1920x1200 @ 60Hz DP:Max. resolution 1920x1200 @ 60Hz DP:Max. resolution 1920x1200 @ 60Hz
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, Optionl +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	
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°C ~ 50°C (14°F ~ 122°F) (w/SSD, SATA DOM), ambient w/ air flow; i7 -10°C ~ 60°C (14°F ~ 140°F) (w/SSD, SATA DOM), ambient w/ air flow; i5/i3 -40°C ~ 75°C (-40°F ~ 167°F)	
Storage Temperature		
Operating Humidity	0% ~ 90% Relative Humidity, Non-condensing	
Vibration Test	With SSD/mSATA : 5Grms, IEC 60068-2-64, Random, 5 ~ 500Hz, 1hr/axis	
Shock Test	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	