

EC-3000

Intel® Core™ i7/i5 Fanless Embedded Controller with 5x GbE and 2x eSATA ports



Overview ▶

Incorporating Intel Core™ i7/i5 processor, Vecow EC-3000 controller offers extraordinary performance for arithmetic-intensive applications, while its fanless design provides superb reliability and durability. Especially design for harsh environment, the Vecow EC-3000 can process various advanced measurement and control applications ranging in ambient temperatures between -20 and 60 degrees Celsius. The fanless design of EC-3000 gives it exceptional long-term durability and tolerance to vibration because all heat-producing components are placed close with the aluminum housing. The all-in-one embedded box PC features rich I/O interfaces, including maximum 5 Gigabit Ethernet ports and 2 eSATA ports particularly for surveillance and security applications. The VGA+DVI/HDMI dual display accomplishes an easy way of high-resolution content output for image or media applications. In addition, EC-3000 also provides mini-PCIe, to fit a broader range of applications

Key Features ▶

- ◆ Rugged, -20 °C to 70 °C fanless operation
- ◆ Up to five Gigabit Ethernet ports
- ◆ VGA+DVI/HDMI dual display
- ◆ One RS-232/422/485 port and three RS-232 ports
- ◆ Dual eSATA ports
- ◆ Mini-PCIe expansion with SIM support

Specification >

System Core

Processor	Intel® Core™i7-620M (2.66 GHz) , Intel® i5-520M (2.4 GHz), or Intel® P4500 (1.86 GHz)
Chipset	Intel® HM55
Memory	1x SO-DIMM socket, support up to 4GB DDR3 1066MHz SDRAM

Back Panel I/O

LAN 1,2,3,4,5	Gigabit Ethernet Controller
Display	VGA, up to 2560x1600 resolution DVI-D, up to 1920x1080 resolution
Serial Port	COM1: RS-232/422/485 (Programmable by Software) COM2, COM3, COM4: RS-232
USB	6x USB 2.0 ports
KB/MS	1x PS/2 keyboard and 1x PS/2 mouse
Audio	1x Mic-in and 1x Speaker-out
eSATA	2x eSATA ports
CompactFlash	1x Type-I CF socket

Internal I/O

SATA	1x SATA Port with Power Pins for 2.5" HDD/SSD installation
Mini PCI-E	1x Mini-PCIe Socket
SIM	1x SIM Socket
PCI-104	1x Internal PCI-104 socket (Optional with Reserved Footprint)

Power Input

DC-In	DC input by Two Selections: Selection 1: 8-26 Volts 4-pin pluggable terminal block with remote on/off control Selection 2: 12 Volts DC jack (ø2.5) for AC/DC adapter input
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Mechanical

Size(W x D x H)	240 mm x 195 mm x 76 mm
Weight	2.7 Kg
Mounting	Wall-mount by mounting bracket

Environmental

Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 85°C
Humidity	10% to 90% humidity, non-condensing
Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
EMC	CE/FCC Class A

Ordering Information >

Product Number

Product Number	Description
EC-3000-5G	Intel® Core™ i7/i5 Fanless Embedded Controller with 5x GbE, 2x eSATA, 4x COM
EC-3000-3G	Intel® Core™ i7/i5 Fanless Embedded Controller with 3x GbE, 2x eSATA, 4x COM

Suggested Video Capture card

Suggested Video Capture card	Description
VMX-200-4	4-CH, D1, Real-time, Mini-PCI Express, 120 fps, Video Capture Card, include cables and SDK
VMX-200-8	8-CH, D1, Real-time, Mini-PCI Express, 240 fps, Video Capture Card, include cables and SDK

Accessories

Accessories	Description
PWA-60W	60W AC/DC power adapter