

ECS-7000-2V

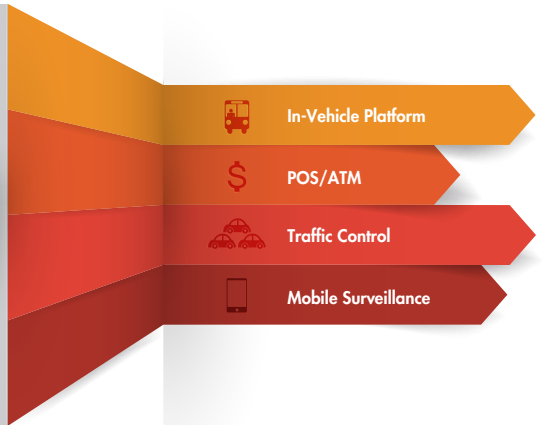
High-Performance, Fanless, Hybrid, Extended Temp. Embedded System with Video Capture & 3rd Gen Intel® QM77 Quad Core™ i7 / i5 / i3 Ivy Bridge Processor



- 3rd Gen Intel® Quad Core™ i7/i5/i3 Ivy Bridge Mobile Processor
- Rugged, Fanless, -25 °C to 70 °C Operation Temperature
- Support 2 DDR3 / DDR3L, up to 16GB
- QM77 System Chipset
- 4CH 120/100 fps D1 Resolution Video Capture
- Rich I/O: 4 COM, 6 USB, 2 Mini-PCIe, SIM Card Socket
- 2 GbE LAN for Extend Internet Application
- 5 Display Support: 2 DP, DVI-D, VGA, LVDS
3 Independent Displays
- 2 SATA III (6Gbps) 2.5" HDD / SSD Trays

ECS-7000-2V enables 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), DDR3L and DDR3 maximum dual channel 16GB SO-DIMM, extended operating temperature from -25 to 70 degrees Celsius, 5 display (2 DP, DVI-D, VGA, LVDS), isolated DIO, 4 channel video capture card, 2 GbE LANs, CFast, two 2.5" SATA 6Gp/s SSD/HDD trays, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module. Integrating Digital IP and analog CCTV cameras, ECS-7000-2V is the ideal central video surveillance system to optimize performance and expenses. ECS-7000-2V goes beyond expectations of normal video surveillance systems. Design with capture card that can handle 4 channels of video 120 / 100 fps at D1 resolution, ECS-7000-2V servers as a hybrid video security system processing and transmitting both analog and digital image with speed, accuracy, cost-efficiency, and stability.





*Optional add-on Mini-PCIe cards for wireless app.

Specification

System

CPU	3 rd Generation Intel® Quad Core™ i7/i5/i3 Ivy Bridge Processors (6M Cache, up to 3.30 GHz)
Chipset	Intel® Mobile QM77
BIOS	AMI
SIO	IT8783F
Memory	DDR3 1066 / 1333 / 1600 MHz, DDR3L 1066 / 1333 MHz 16GB Max., 2 204-pin SO-DIMM Sockets

I/O Port

Serial Interface	3 COM RS-232, 1 COM RS-232 / 485 / 422
USB Interface	4 USB 3.0, 2 USB 2.0, 2 Internal USB 2.0
LED	Power, SDD and CFast LEDs
GPIO	8 DI / 8 DO

Expansion

JST Connector	1 Internal 6-pin (Internal USB 2.0)
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Graphics

Chipset	Intel® GMA HD 4000
Display Memory	Shared Memory, Up to 1.7GB
Interface	DB-15 VGA / 1920 x 1200 Max., DVI-D / 1920 x 1200 Max., Display Port 1 / 2560 x 1600 Max., Display Port 2 / 1920 x 1200 Max., LVDS / Dual Channel 24-bit / 1920 x 1200 Max.

Storage

SATA	2 Bottom SATA III (6Gbps) 2.5" HDD / SSD Drive Bays 1 SATA II 3Gbps - Support Horizontal Type SATA DOM
mSATA	2 SATA II 3Gbps
Storage Expansion	CFast Slot Push In / Out Eject

Audio

Audio Codec	Realtek ALC892, 5.1 Channel HD Audio
Audio Interface	Line-in, Line-out, Mic-in, Front Audio Header
Maximun Channel No.	4 Mono or 2 Stereo
Input Connector	4 Input RCA on Board

Video

Maximun Channel No.	4
Input connector	4 input BNC on board
Resolution	D1 (NTSC:720x480 / PAL:720x576), CIF (NTSC:360x240 / PAL:360x288) 4CIF (NTSC:704x480 / PAL:704x576), DCIF (NTSC:528x320 / PAL:528x384) QCIF (NTSC:180x120 / PAL:180x144), 4CH with full D1 resolution
Recording Rate	120 fps on NTSC system, 100fps on PAL system

Ethernet

LAN1	Intel® 82579LM Gigabit LAN, Wake on LAN, PXE Support
LAN2	Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support

Power

Power Input	1 Mini DIN, One 3-pin Terminal Block for DC-IN : V+, V-, Frame Ground
Power Input Voltage	DC-IN 6 ~ 36V
Power Adapter	AC to DC +24V / 3.75A 90W Max. (Optional)
Protection	On-board LT4356 for Power Input High Voltage Surge Protection

Other

Watchdog Timer	Reset: 1 to 255 sec/min Per Step
HW Monitor	Temperature/ Voltages Auto Throttling Control When CPU Overheats

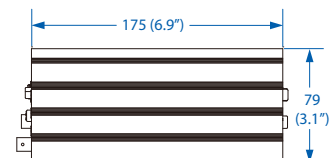
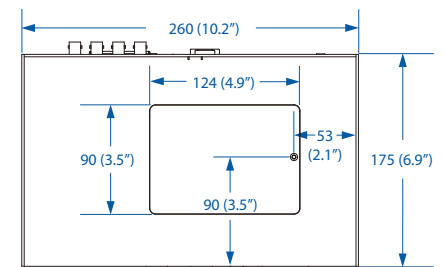
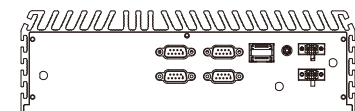
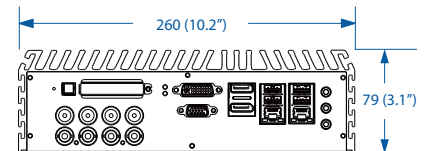
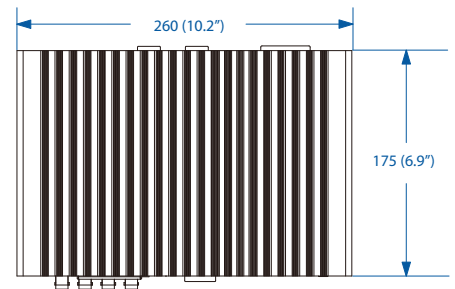
Mechanical

Chassis Construction	Aluminum Housing
Size(W x D x H)	260mm x 175mm x 79mm (10.2" x 6.9" x 3.1")
Weight	2.8Kg (6 lb)
Mounting	Wall-mount by Mounting Bracket

Environment

Operating Temperature	-25°C to 70°C (-13°F to 157°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	10% to 95% 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

*All product specifications are subject to change without prior notice.



Unit: mm (inch)

Order Information

Part Number	Description
ESC-7000-2V	2 GbE LAN Fanless Embedded Controller, 2 HDD and 4-CH, 120 fps, Built-in Video Capture Function

Option	Description
NVTE3G	3G module , MiniPCI-e, W / HSPA+ / UMTS 850/900 / AWS / 1900 / 2100 MHz, EGPRS 850 / 900 / 1800 / 1900 MHz
DN WiFi	Intel® 802.11n a / b / g WiFi, 2Tx / 2R, Mini-PCIe