

High Performance, Rugged, Extended Temp., Intel[®] 3rd Gen. Quad Core[™] i7/i5/i3 Fanless Embedded System with 6 Gigabit Ports (4 PoE+) and 1 PCIe/PCI Expansion Slot





3rd Gen Intel[®]Quad Core™ i7/i5/i3 Ivy Bridge Mobile Processor



4 GigE PoE+ Ports & 2 GigE LAN Ports



Fanless, -25°C to 70°C Operation Temp.



1 PCIe or PCI Expansion Slot



4 COM, 4 USB 3.0, 2 USB2.0, 2 Mini-PCle (1 with SIM Card Socket)



Triple Display, DVI-D / HDMI & VGA, 2 Display Ports

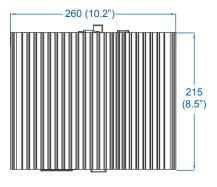
Based on 3rd Gen Intel[®] Quad-Core[™] i7 Processor (6M Cache, up to 3.30 GHz), ECS-7700 series integrates 2 GbE LAN, 4 GigE PoE+ ports, and one PCIe/PCI expandable slot. With maximum dual channel 16GB ram, DVI-D/HDMI and VGA triple display, two 2.5" SATA 6Gp/s HDD/SSD, one SATA 3Gp/s SSD/HDD supports SATA DOM, one of 2 miniPCI-express supports SIM card for WiFi, 3G/GPRS, and still keep outstanding thermal design for -25 degree to +70 degree Celsius industrial operating temperature range. ECS-7700 series provides 2 fully integrated Gigabit Ethernet interfaces for either 1000 Mb/s or 10/100 Mb/s operation rates by each and jumbo frames up to 9018 bytes. Enabling accurate time synchronization, wake-up function, and boot up through the extensible firmware interface (PXE), ECS-7700 series integrates fully power management function to optimize voltage efficiency. Empowering 4 GigE IEEE 802.3at PoE+ ports, ECS-7700 series is the ideal option for GigE cameras required efficient power supply and distances connection. Improving network traffic load-balancing by optimized parallel and pipelined architectures, the 2 gigabit Ethernet controllers of ECS-7700 series enable to smooth the network traffic loading for most demanding occasions. ECS-7700 series is designed for machine vision, intelligent automation, intelligent manufacturing system, automation networking communication, IOT (Internet of Things), and process control applications.

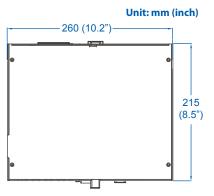






Dimension





Specification

System	
Processor Chipset BIOS SIO Memory	3 rd Gen. Intel® Quad Core™ i7/i5/i3 Ivy Bridge Intel® Mobile QM77 AMI IT8783 DDR3 1066 1333 1600 MHz or DDR3L 1066 1333MHz Max. 16GB Two 204-pin SO-DIMM Sockets
I/O Interface	
Serial Interface USB Interface	3 COM RS-232, 1 COM RS-232/485/422 4 USB 3.0 (Compatible to USB 2.0) 2 USB 2.0 2 Internal USB 2.0
Isolated DIO LED GPIO	8 DI, 8 DO, 5V~24V Input (Optional) Power/Suspend, SDD, CFast, and WDT LEDs 16 GPIO
Expansion	
PCIe/PCI Mini PCIe	1 slot for PCIe x16 or PCI Expansion Card 1 miniPCIe Socket (PCIe +USB+ SIM Card Socket), Optional with mSATA 1 miniPCIe Socket (PCIe +USB), Optional with mSATA
JST Connector	1 Internal 6-pin (2 Internal USB2.0)
Graphics	
Chipset Display Memory Interface	Intel® GMA HD 4000, Triple Independent Display Shared Memory, Up to 1.7GB DB-15 VGA / 1920x1200 max. DVI-D / 1920x1200 max. Display Port 1 / 2560x1600 max. Display Port 2 / 1920x1200 max. LVDS/Dual channel 24-bit/ 1920x1200 max.
Storage	
SATA mSATA Storage Expansion	2 SATA III 6Gbps 1 SATA II 3Gbps, Support Horizontal Type SATA DOM 2 SATA II 3Gbps (Optional) CFast Slot, External Hot-Swap, Push In/Out Ejector
Audio	
Audio Codec Audio Interface	Realtek® ALC892, 5.1 Channel HD Audio Line-In, Line-Out, Mic-In, Front Audio Header

Ethernet		
LAN1 LAN2	Intel® 82579LM Gigabit LAN, wake on LAN, PXE support Intel® 82574L Gigabit LAN	
Power over Ethern	net, PoE	
LAN3	Gigabit IEEE 802.3at (25.5W/48V) PoE Ports by	
LAN4	Intel® 82574L with Power On/Off Control Gigabit IEEE 802.3at (25.5W/48V) PoE Ports by Intel® 82574L with Power On/Off Control	
LAN5	Gigabit IEEE 802.3at (25.5W/48V) PoE Ports by	
LAN6	Intel [®] 82574L with Power On/Off Control Gigabit IEEE 802.3at (25.5W/48V) PoE Ports by Intel [®] 82574L with Power On/Off Control	
Power		
Power Input	1 Mini DIN 3-Pin Terminal Block for DC-IN : V+, V-, Frame Ground ATX: 2-Pin Remote Power On/Off Switch	
Power Input Voltage	DC-IN 6 ~ 36V	
Power Adapter Protection	AC to DC +24V / 5A. 120W Max. (Optional) On-board LT4356 for High Voltage Surge Protection	
FIOLECLION	On-board E14350 for High Voltage Surge Protection	
Other		
Trusted Platform Module (TPM) Watchdog Timer	Infineon SLB9635, LPC Interface (Optional) Reset: 1 to 255 sec./min. Per Step	
HW Monitor	Temperature/Voltages Auto Throttling Control When CPU Overheats	
Mechanical		
Dimension (W x L x H)	260mm x 215mm x 79mm (10.2" x 8.5" x 3.1")	
Weight Mounting	2.1Kg (4.6 lb) Wall-Mount by Mounting Bracket	
Chassis Construction	Aluminum Housing	
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 Relative Humidity	10% to 95% Humidity, Non-condensing 95% at 70°C	
Vibration	Operating, 5Grms @5~500 Hz According to IEC68-2-64	
Shock	Operating, 20 Grms, Half-Sine 11 ms Duration	
EMC	(w/ SSD, According to IEC60068-2-27) CE, FCC, RoHS	
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*All product specifications and photos are subject to change without prior notice.

Order Information

Part No	Description
ECS-7710	Intel [®] 3 rd Gen Quad Core [™] i7/i5/i3 Fanless Embedded System with 6 Gigabit Ports (4 PoE+) & 1 PClex16 Expansion Slot
ECS-7701	Intel [®] 3 rd Gen Quad Core [™] i7/i5/i3 Fanless Embedded System with 6 Gigabit Ports (4 PoE+) & 1 PCI Expansion Slot
Option	Description
i7-3610QE	Ivy Bridge 3 rd Gen Intel [®] Mobile Quad Core [™] i7 Processor
i5-3610ME	Ivy Bridge 3 rd Gen Intel [®] Mobile Core [™] i5 Processor
i3-3120ME	Ivy Bridge 3 rd Gen Intel [®] Mobile Core [™] i3 Processor
M340S-W28M1	Vecow DDR3 4GB 1333/1066MHz RAM, Wide Temperature -40°C ~ +85°C
KVR1333D3S9/4G	Kingston [®] DDR3 4GB PC1333 RAM
PWA-120WM4P	120W, 24V, 90VAC to 264VAC Power Adapter
SCSI-20P-100	20-pin SCSI Cable, 1M
TMB-SCSI-20P	Terminal Board with One 20-pin SCSI Connector and DIN-Rail Mounting