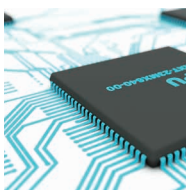
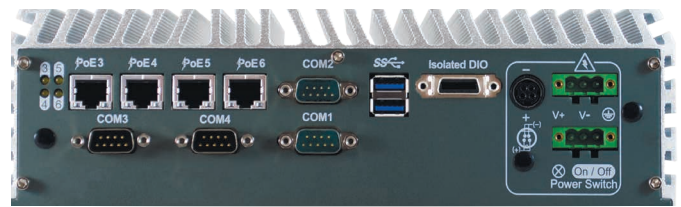


ECS-7800-PoER



High Performance, Rugged, Extended Temp., -25°C ~ 70°C

3rd Gen. Intel® Quad Core™ i7/i5/i3 Fanless Embedded Sys. with 6 GigE Ports (4 PoE+),
2 Front Panel Accessible SSD | HDD Trays



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



4 GigE IEEE 802.3at PoE+ Ports



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



2 Front Panel Accessible SSD | HDD Trays



Compliant with EN50121-3-2 & Essential Sections of EN50155



4 COM, 4 USB 3.0, 2 USB 2.0, 2 Mini-PCIe (1 with SIM Card Socket), Isolated 8DI | 8DO



5 Display Support: 2 DP, DVI-D, VGA, LVDS

ECS-7800-PoER supports 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz), DDR3L and DDR3 maximum dual channel 16GB ram, 4-port IEEE 802.3at PoE+, 5 display (2 DP, DVI-D, VGA, LVDS), isolated DIO, 2 GbE LANs, CFAST, 2 front panel accessible 2.5" SATA 6Gbps SSD/HDD trays, 4 COM, 4 USB 3.0 ports, JST connector, and 2 miniPCI-express, plus with overvoltage protection and Trusted Platform Module. Using only one Ethernet cable to supply power and transmit and sync data simultaneously, ECS-7800-PoER applies IEEE 802.3at power sourcing equipment enable to supply 50 to 57 V_{DC}, 600 mA, and 25.5W at the powered device, for example, HD LCDs, touchscreens, cameras and motion sensors. Design for wider compatibility, higher power supply but less total cost and wiring, ECS-7800-PoER is one-of-a-kind dream fan-less embedded system for machine Vision, outdoor imaging, 3-D imaging, ITS (Intelligent Traffic Solutions), quality control, medical imaging applications and EtherCAT Applications. (Ethernet for Control Automation Technology).





Specification

System

Processor	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	4 USB 3.0, 2 USB 2.0, 2 Internal USB 2.0
Isolated DIO	8 DI, 8 DO, 5V~24V Input
LED	Power, HDD, CFast LEDs
GPIO	16 GPIO

Expansion

Mini PCIe	miniPCIe Socket (PCIe + USB + SIM Card Socket), Optional with mSATA
SUMIT A, B	miniPCIe Socket (PCIe + USB), Optional with mSATA
JST Connector	2 SUMIT Slots (Optional) 1 Internal 6-pin (2 Internal USB 2.0)

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 Front Panel Accessible SATA III 6Gbps SSD HDD Trays 1 SATA II 3Gbps - Support Horizontal Type SATA DOM
mSATA	2 SATA II 3Gbps
Storage Expansion	CFast Slot, External Hot-Swap, Push In Out Ejector

Audio

Audio Codec	Realtek ALC892, 5.1 Channel HD Audio
Audio Interface	Line-In, Line-Out, Mic-In, Front Audio Header

Ethernet

LAN1	Intel® 82579LM Gigabit LAN, Wake on LAN, PXE Support ; Intel® AMT 8.0
LAN2	Intel® 82574L Gigabit LAN, Wake on LAN, PXE Support

Power-over-Ethernet

LAN3	IEEE 802.3at (25.5W / 48V) PoE Ports by Intel® 82574L
LAN4	IEEE 802.3at (25.5W / 48V) PoE Ports by Intel® 82574L
LAN5	IEEE 802.3at (25.5W / 48V) PoE Ports by Intel® 82574L
LAN6	IEEE 802.3at (25.5W / 48V) PoE Ports by Intel® 82574L

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 Protection	AC to DC +24V / 5A, 120W Max. (Optional) On-board LT4356 for Power Input High Voltage Surge Protection

Other

Trusted Platform Module (TPM)	Infineon SLB9635, LPC Interface (Optional)
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 215mm x 79mm (10.2" x 8.5" x 3.1")
Weight	3Kg (6.6 lb)
Mounting	Wall-mount by Mounting Bracket

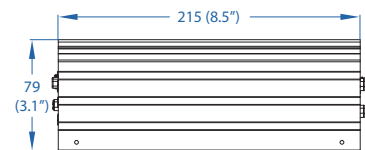
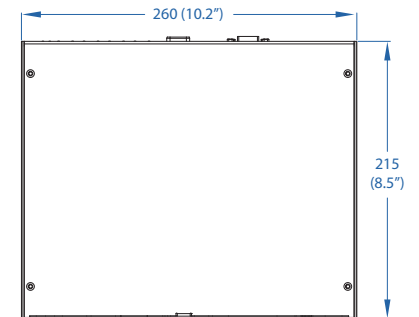
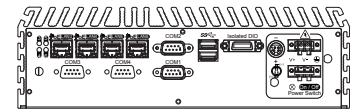
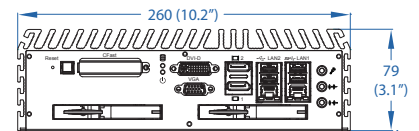
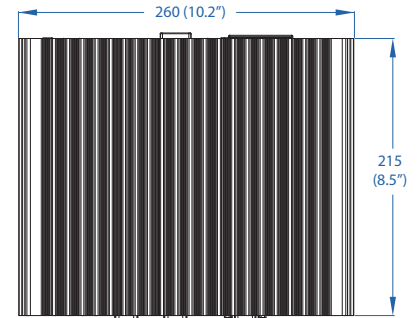
Environment

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
Relative Humidity	95% at 70°C
Vibration	Random: 5Grms @5~500 Hz according to IEC68-2-64 Sinusoidal: 5Grms @5~500 Hz according to IEC68-2-64
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w / SSD, According to IEC60068-2-27)
EMC	CE, FCC, RoHS, EN50155 & EN50121-3-2

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

Order Information

Part Number	Description
ECS-7800-PoER	Fanless Embedded System with 6 GbE LAN, 2 Front Panel Accessible SATA III SSD/HDD Trays, Isolated DIO, 4-Port Gigabit PoE+
ECS-7800-PoE	Fanless Embedded System with 6 GbE LAN, 2 SATA III SSD/HDD, Isolated DIO, 4-Port Gigabit PoE+
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



Unit: mm (inch)