

ECS-7000-6F

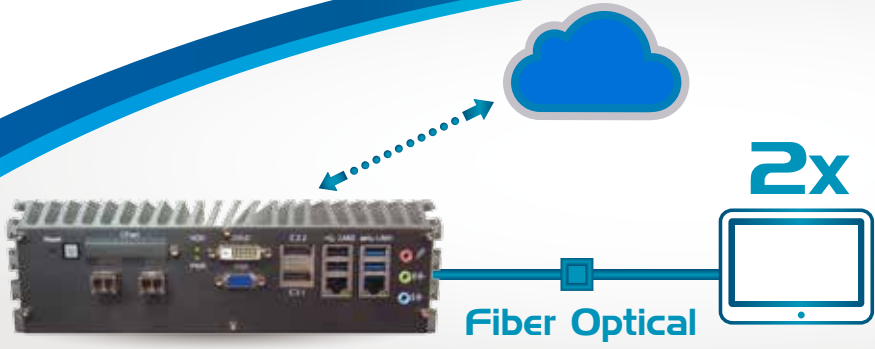
Intel® Quad Core™ Based Embedded Fan-less System with 6 GbE for 4 Copper & 2 Fiber SFP Sockets



- 3rd Gen Intel® Quad Core™ i7 | i5 | i3 Ivy Bridge Mobile Processor (6M Cache, up to 3.30 GHz)
- Fanless, -25°C to 70°C Operation Temperature
- Built-in Input 80 V_{DC} Overvoltage Protection
- Support 2 SO-DIMM DDR3 or DDR3L, up to 16GB
- QM77 System Chipset
- 2 SATA III (6Gbps) 2.5" SSD | HDD, mSATA
- 6 Gigabit Ethernet Ports for 4 Copper & 2 SFPs
- 2 1000Base SFP Sockets for Fiber Expansion
- Rich I/O: 4 COM, 4 USB 3.0, 2 USB2.0, 2 Mini-PCIe (1 with SIM Card Socket)
- 5 Display Support: 2 DP, DVI-D, VGA, LVDS
- 3 Independent Displays
- Intel® AMT 8.0 Support

ECS-7000-6F is still based on 3rd Gen Intel® Quad-Core™ series processor (6M Cache, up to 3.30 GHz) same as all ECS-7000 series product family. Featuring 6 GbE LANs for 4 coppers and 2 SFP sockets, ECS-7000-6F also supports DDR3L and DDR3 maximum dual channel 16GB ram, 5 display input, 6 GbE LANs for 4 coppers and 2 SFP sockets, 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. Equipped with rich I/O, included 4 COM, 4 USB 3.0, 2 USB2.0, CFAST, 2 mini-PCIe (1 with SIM card socket for WiFi, 3G/GPRS), 3 RS-232 and 1 RS-232/485/422, and 8 in/out GPIO, ECS-7000-6F is for multi-camera industrial inspection, high-speed measurements, Line-scan camera systems, security, surveillance, and environment monitoring applications.





- Process Control
- Intelligent Automation
- Machine Vision
- Intelligent Manufacture System

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
LED	Power, SDD, CFast, and WDT LEDs
GPIO	16 GPIO

Expansion

Mini PCIe	miniPCIe Socket (PCIe + USB + SIM card socket), Optional with mSATA miniPCIe Socket (PCIe + USB), Optional with mSATA
JST Connector	1 Internal 6-pin (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 SATA III 6Gbps 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
LAN2~LAN4	Intel® 82574L Gigabit LAN
SPF	2 1000Base SFP Ports Based On Intel® I350 Chipset

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 5A, 120W Max. (Optional)
Protection	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

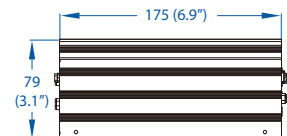
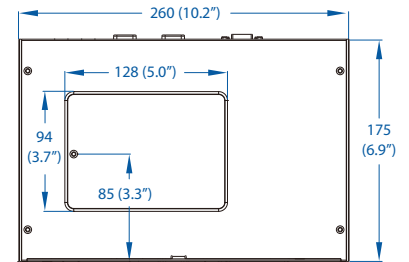
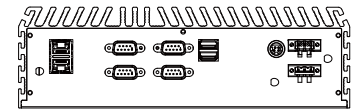
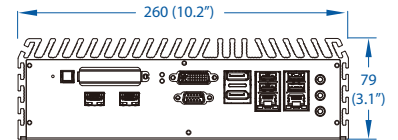
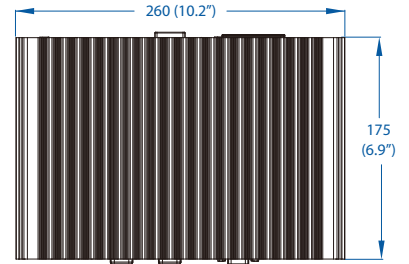
Mechanical

Chassis Construction	Aluminum Housing
Size(W x D x H)	260mm x 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
Relative Humidity	95% at 70°C
Vibration	Random: 0.5Grms @5~500 Hz according to IEC68-2-64 Sinusoidal: 0.5Grms @5~500 Hz according to IEC68-2-64
Shock	Operating, 20 Grms, Half-sine 11 ms Duration (w / SSD, According to IEC60068-2-27)
EMC	CE, FCC, RoHS

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



Unit: mm (inch)

Order Information

Part Number	Description
ECS-7000-6F	6 GbE LAN for 4 Copper & 2 Fiber SFP Sockets Fanless Embedded Controller, 2 SSD HDD
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
PWA-120WM4P	120W, 24V, 90V _{AC} to 264V _{AC} Power Adapter