

ECS-7800-PoER/ PoE

Intel® Core™ i7/ i5/ i3 Fanless Embedded System with Intel® QM77 Chipset, 6 GigE LAN with 4 PoE+, 2 Front-access SSD Tray, Isolated DIO, High Performance, Rugged, Extended Temperature



Features

- Quad Core Intel® Core™ i7/ i5/ i3 Processor (Ivy Bridge)
- Supports VGA/ DVI-D/ Dual DisplayPort/ LVDS interface, up to 3 independent displays
- Fanless, -25°C to 70°C Operating Temperature
- 6 GigE LAN with 4 IEEE 802.3at PoE*
- 2 Front-access 2.5" SSD/ HDD Tray
- 16 Isolated DIO, 16 GPIO
- SIM Card Socket for 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- 6V to 36V DC-in, 80V Surge Protection
- 4 COM, 4 USB 3.0, 4 USB 2.0, 1 Front-access CFast
- 2 Mini PCIe, 2 SATA III, 1 SATA II, 2 SUMIT (Optional)



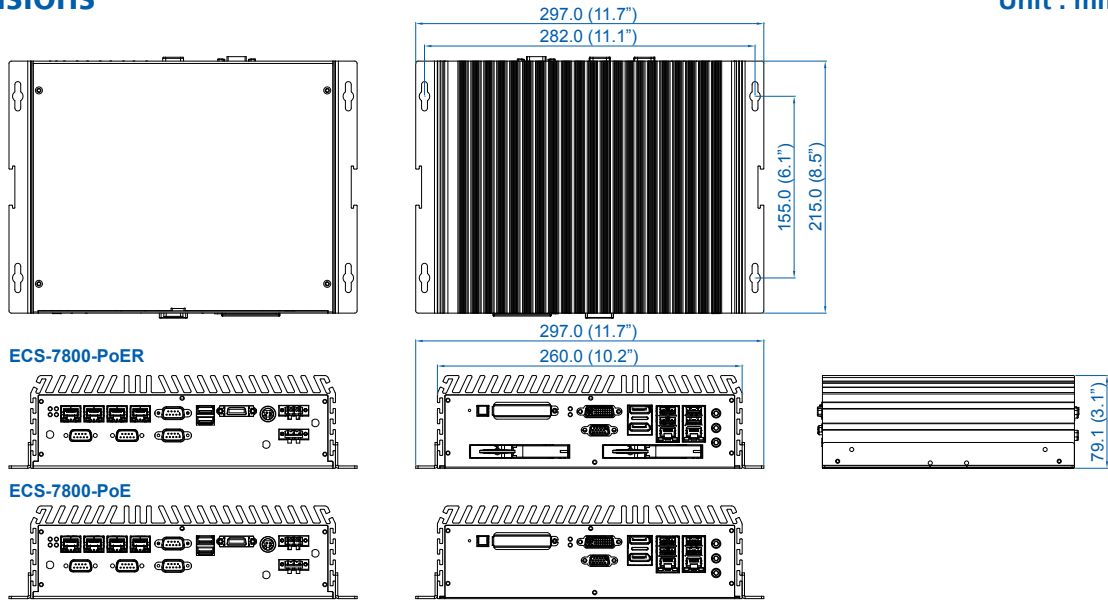
Specifications

| System | |
|--------------------|--|
| Processor | Intel® Core™ i7-3610QE/ i5-3610ME/ i3-3120ME |
| Chipset | Intel® QM77 |
| BIOS | AMI |
| SIO | IT8783 |
| Memory | 2 DDR3 1066/ 1333/ 1600 MHz or DDR3L 1066/ 1333 MHz SO-DIMM, up to 16GB |
| I/O Interface | |
| Serial | <ul style="list-style-type: none"> ▪ 1 COM RS-232/ 422/ 485 ▪ 3 COM RS-232 |
| USB | <ul style="list-style-type: none"> ▪ 4 USB 3.0 (External) ▪ 4 USB 2.0 (2 External, 2 Internal by JST Connector) |
| Isolated DIO | 16 Isolated DIO : 8 DI, 8 DO |
| GPIO | 16 GPIO (Internal) |
| LED | Power, HDD |
| SIM Card | 1 SIM Card Socket (Internal) |
| Expansion | |
| Mini PCIe | 2 Mini PCIe Socket : <ul style="list-style-type: none"> ▪ 1 Mini PCIe Socket for PCIe/ USB/ Internal SIM Card/ Optional mSATA ▪ 1 Mini PCIe Socket for PCIe/ USB/ Optional mSATA |
| SUMIT A, B | 2 (Optional) |
| Graphics | |
| Graphics Processor | Intel® HD Graphics 4000 |
| Display Memory | Shared Memory, up to 1.7GB |
| Interface | <ul style="list-style-type: none"> ▪ VGA : DB-15, up to 1920 x 1200 ▪ DVI-D : Up to 1920 x 1200 ▪ DisplayPort 1 : Up to 2560 x 1600 ▪ DisplayPort 2 : Up to 1920 x 1200 ▪ LVDS : Dual channel 24-bit, up to 1920 x 1200 |
| Storage | |
| SATA | <ul style="list-style-type: none"> ▪ 2 SATA III (6Gbps) ▪ 1 SATA II (3Gbps), supports horizontal type SATA DOM |
| mSATA | 2 SATA II (Mini PCIe Type, 3Gbps) |
| Storage Device | <ul style="list-style-type: none"> ▪ 1 CFast Socket, Push-in/ Push-out Ejector ▪ ECS-7800-PoER : 2 2.5" SSD/ HDD Tray ▪ ECS-7800-PoE : 2 2.5" SSD/ HDD Bracket (Internal) |
| Audio | |
| Audio Codec | Realtek ALC892, 5.1 Channel HD Audio |
| Audio Interface | 1 Line-in, 1 Line-out, 1 Mic-in |

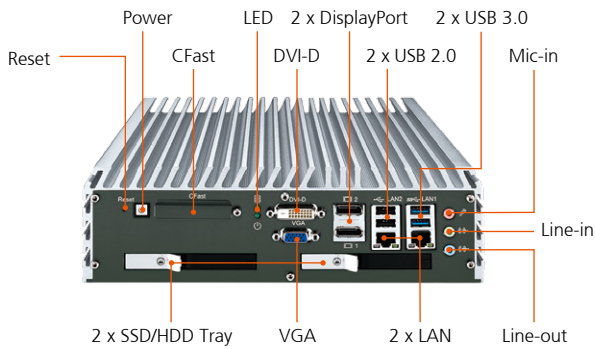
| Ethernet | |
|------------------------|---|
| LAN 1 | Intel® 82579LM GigE LAN supports iAMT 8.0 |
| LAN 2 | Intel® 82574L GigE LAN |
| PoE | |
| LAN 3 | GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® 82574L |
| LAN 4 | GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® 82574L |
| LAN 5 | GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® 82574L |
| LAN 6 | GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® 82574L |
| Power | |
| Power Input | 6V to 36V, DC-in |
| Power Interface | <ul style="list-style-type: none"> ▪ 3-pin Terminal Block : V+, V-, Frame Ground ▪ Mini-DIN 4-pin |
| Remote Switch | 3-pin Terminal Block |
| Surge Protection | Up to 80V/1ms Transient Power |
| Others | |
| TPM | Optional Infineon SLB9635 supports TPM 1.2, LPC Interface |
| Watchdog Timer | Reset : 1 to 255 sec./min. per step |
| Smart Management | Wake on LAN, PXE supported |
| HW Monitor | Monitoring temperature, voltages. Auto throttling control when CPU overheats. |
| Software Support | |
| OS | Windows 8.1, Windows 7, Windows XP, Linux |
| Mechanical | |
| Dimensions (W x L x H) | 260mm x 215mm x 79mm (10.2" x 8.5" x 3.1") |
| Weight | 3.0 kg (6.6 lb) |
| Mounting | <ul style="list-style-type: none"> ▪ Wallmount by mounting bracket ▪ Din Rail Mount (Optional) ▪ 2U Rackmount (Optional) |
| Environment | |
| Operating Temperature | -25°C to 70°C (-13°F to 158°F) |
| Storage Temperature | -40°C to 85°C (-40°F to 185°F) |
| Humidity | 10% to 95% Humidity, non-condensing |
| Relative Humidity | 95% @ 70°C |
| Shock | <ul style="list-style-type: none"> ▪ IEC 60068-2-27 ▪ SSD : 50G @ wallmount, Half-sine, 11ms |
| Vibration | <ul style="list-style-type: none"> ▪ IEC 60068-2-64 ▪ SSD : 5Grms, 5Hz to 500Hz, 3 Axis |
| Certification | E13, CE, FCC, EN50155, EN50121-3-2, VMware Ready |

Dimensions

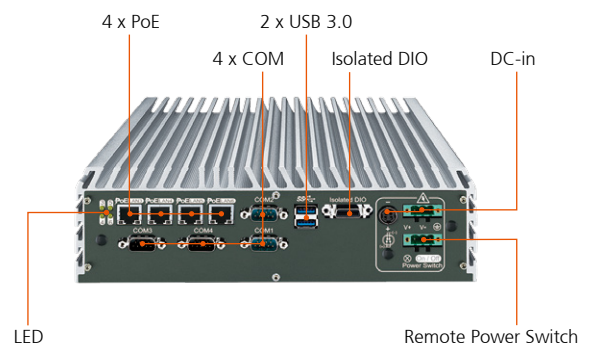
Unit : mm/ inch



Front I/O (ECS-7800-PoER)



Rear I/O (ECS-7800-PoER)



Order Information

| | |
|------------------------------------|--|
| ECS-7800-PoER | ECS-7800, 6 GigE LAN with 4 PoE ⁺ , 2 Front-access SSD Tray, 8 USB, 4 COM, 1 SIM, Isolated DIO, 16 GPIO |
| ECS-7800-PoE | ECS-7800, 6 GigE LAN with 4 PoE ⁺ , 8 USB, 4 COM, 1 SIM, Isolated DIO, 16 GPIO |
| i7-3610QE | Ivy Bridge 3rd Gen Intel® Mobile Quad Core™ i7 Processor |
| i5-3610ME | Ivy Bridge 3rd Gen Intel® Mobile Core™ i5 Processor |
| i3-3120ME | Ivy Bridge 3rd Gen Intel® Mobile Core™ i3 Processor |
| M340S-W28M1 | Vecow DDR3 4GB 1333/ 1066 MHz RAM, Wide Temperature -40°C to +85°C |
| Certified DDR3 4GB RAM | Certified DDR3 4GB 1333/ 1600 MHz RAM |
| Certified DDR3 8GB RAM | Certified DDR3 8GB 1333/ 1600 MHz RAM |
| PWA-120W | 120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block |
| PWA-120WM4P | 120W, 24V, 90V AC to 264V AC Power Adapter with 4-pin Mini-DIN Connector |
| PWA-160W-WT | 160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C |
| VESA Mount | VESA Mounting Kit |
| DIN-RAIL | DIN Rail Kit |
| Rack Mount | 2U Rackmount Kit |
| SCSI-20P-100 | 20-pin SCSI Cable, 1M |
| TMB-SCSI-20P | Terminal Board with One 20-pin SCSI Connector and DIN-Rail Mounting |
| 3G Module | Mini PCIe 3G/GPS Module with Antenna |
| 4G Module | Mini PCIe 4G/GPS Module with Antenna |
| WiFi & Bluetooth Module | Intel® Mini PCIe WiFi & Bluetooth Module with Antenna |