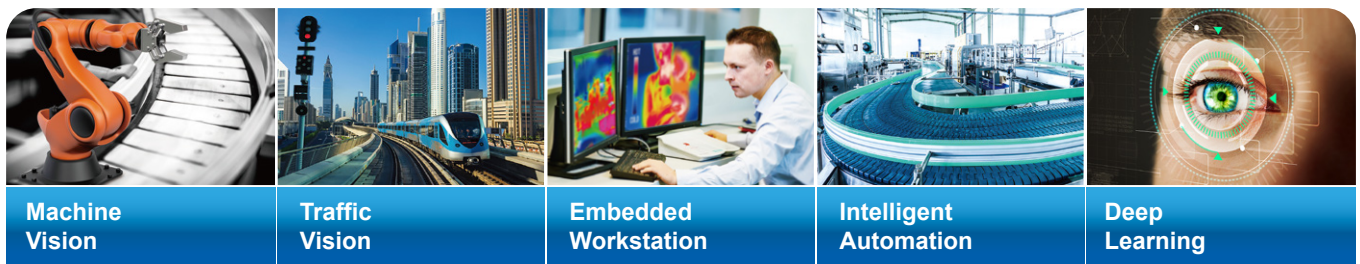


ECS-9280 GTX1050 Series

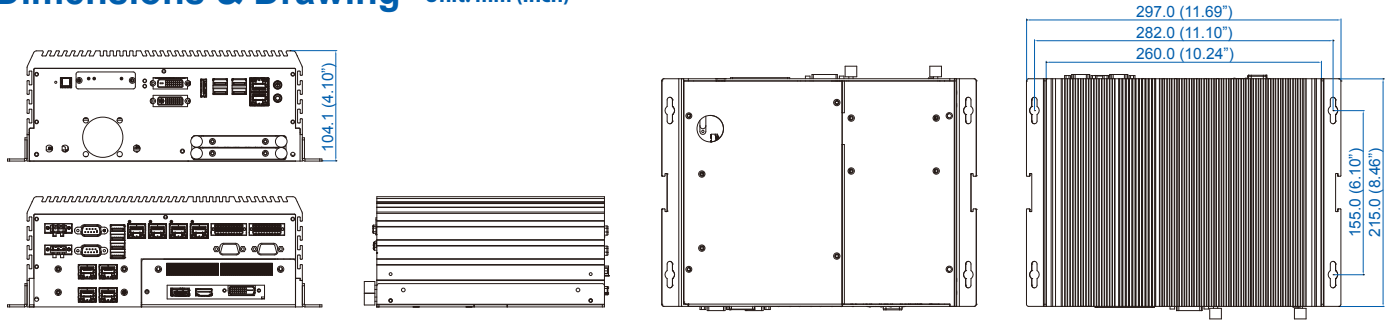
7th Generation Intel® Xeon®/Core™ i7 Processor (Kaby Lake) Embedded System with Intel® C236 & NVIDIA GeForce® GTX 1050 Ti/GTX 1050, NVIDIA Pascal™ architecture, 10-port GigE LAN w/8 PoE, 2 Front-access SSD Tray, 8 USB 3.0, M.2 Socket, M2DOM, 3 SIM, 32 Isolated DIO, High Performance, Independent Graphics



- LGA 1151 Socket supports workstation-grade Intel® Xeon®/Core™ i7 Processor (Kaby Lake) with C236
- 10 Independent GigE LAN with 4 IEEE 802.3at PoE+ & 4 IEEE 802.3af PoE
- 2 DDR4 2133MHz Memory, up to 32GB (ECC/Non-ECC)
- 3 SIM Card Socket for WiFi/3G/4G/LTE/GPRS/UMTS
- 10V to 36V DC-in with 80V Surge Protection
- Configurable Ignition Power Control
- NVIDIA GeForce® GTX 10 Series graphics engine supports NVIDIA Pascal™ GPU architecture, up to 8K resolution
- Display : 1 VGA, 3 DVI, 1 HDMI & 3 DisplayPort, up to 6 independent HD displays
- Storage : 2 2.5" SSD, 1 CFast, 1 M2DOM, 2 SATA III
- Expansion : 1 M.2 Socket, 1 Mini PCIe/mSATA
- 32 Isolated DIO, 8 USB 3.0, 4 COM



Dimensions & Drawing Unit: mm (inch)



Specifications

System

| | |
|-----------|---|
| Processor | Quad Core Intel® Xeon®/Core™ i7 Processor (Kaby Lake-S/Skylake-S) |
| Chipset | Intel® C236 |
| BIOS | AMI |
| SIO | IT8786E |
| Memory | 2 DDR4 2133MHz SO-DIMM, up to 32GB (ECC/Non-ECC) |
| OS | Windows 10, Windows 8.1, Windows 7, Linux |

I/O Interface

| | |
|--------------|--|
| Serial | 4 COM RS-232/422/485 (ESD 8KV) |
| USB | <ul style="list-style-type: none"> 8 USB 3.0 (External) 1 USB 2.0 (Internal) |
| Isolated DIO | 32 Isolated DIO : 16 DI, 16 DO |
| LED | Power, HDD, PoE, Wireless |
| SIM Card | 3 SIM Card Socket (External) |

Expansion

| | |
|-----------|--|
| Mini PCIe | 1 Full-size for PCIe/USB/External SIM Card/mSATA |
| M.2 | 1 M.2 Socket (Key ID : M) |

Graphics

| | |
|-----------|--|
| Processor | <ul style="list-style-type: none"> Intel® HD Graphics 630/530 NVIDIA GeForce® GTX 1050 Ti/GTX 1050 |
| Interface | 6 Display interfaces : <ul style="list-style-type: none"> 3 DVI : Up to 1920 x 1200 @ 60Hz 1 DisplayPort : Up to 7680 x 3840 @ 60Hz 1 DisplayPort : Up to 4096 x 2304 @ 60Hz 1 HDMI : Up to 4096 x 2160 @ 60Hz |

Storage

| | |
|----------------|--|
| SATA | 2 SATA III (6Gbps) support S/W RAID 0, 1 |
| mSATA | 3 SATA III (Mini PCIe Type, 6Gbps) |
| M2DOM | 1 PCIe 3.0 (8GT/s) |
| Storage Device | <ul style="list-style-type: none"> 1 CFast Socket, Push-in/Push-out Ejector 2 Front-access 2.5" SSD/HDD Tray |

Audio

| | |
|-----------------|--------------------------------------|
| Audio Codec | Realtek ALC892, 5.1 Channel HD Audio |
| Audio Interface | 1 Mic-in, 1 Line-out |

Ethernet

| | |
|-------|---|
| LAN 1 | Intel® I219LM GigE LAN supports iAMT 11.0 |
| LAN 2 | Intel® I210 GigE LAN |

PoE+

| | |
|----------------|---|
| LAN 3 to LAN 6 | GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210 |
|----------------|---|

PoE

| | |
|-----------------|--|
| LAN 7 to LAN 10 | GigE IEEE 802.3af (15.4W/48V) PoE by Intel® I350 |
|-----------------|--|

Power

| | |
|------------------|---|
| Power Input | 10V to 36V, DC-in |
| Power Interface | 3-pin Terminal Block : V+, V-, Frame Ground |
| Ignition Control | 16 Mode (Internal) |
| Remote Switch | 3-pin Terminal Block |
| Surge Protection | Up to 80V/1ms Transient Power |

Others

| | |
|------------------|---|
| TPM | Optional Infineon SLB9665 supports TPM 2.0, 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. |

Mechanical

| | |
|--------------------|--|
| Dimensions (WxLxH) | 260mm x 215mm x 104mm (10.2" x 8.5" x 4.1") |
| Weight | 4.7 kg (10.36 lb) |
| Mounting | <ul style="list-style-type: none"> Wallmount by mounting bracket DIN Rail Mount (Optional) |

Environment

| | |
|-------------------|--|
| Operating Temp. | 35W TDP CPU : Xeon® E3-1268L v5, Core™ i7 : -20°C to 60°C (-4°F to 140°F) |
| | 65W TDP CPU : Core™ i7 : -20°C to 55°C (-4°F to 131°F) |
| | 80W TDP CPU : Xeon® E3-1275 v6, E3-1275 v5, E3-1225 v5 : -20°C to 45°C (-4°F to 113°F) |
| Storage Temp. | -40°C to 85°C (-40°F to 185°F) |
| Humidity | 5% to 95% Humidity, non-condensing |
| Relative Humidity | 95% at 60°C |
| Shock | • IEC 60068-2-27 |
| | • SSD : 50G @ wallmount, Half-sine, 11ms |
| | • IEC 60068-2-64 |
| Vibration | • SSD : 5Grms, 5Hz to 500Hz, 3 Axis |
| | • CE, FCC, EN50155, EN50121-3-2 |
| EMC | |

Order Information

| | |
|-------------------------|--|
| ECS-9280-GTX1050T | • ECS-9200, NVIDIA GeForce® GTX 1050 Ti, 10-port GigE LAN w/8 PoE, 2 SSD Tray, 8 USB 3.0, 4 COM, 1 M.2, 3 SIM, 32 Isolated DIO |
| ECS-9280-GTX1050 | • ECS-9200, NVIDIA GeForce® GTX 1050, 10-port GigE LAN w/8 PoE, 2 SSD Tray, 8 USB 3.0, 4 COM, 1 M.2, 3 SIM, 32 Isolated DIO |
| DDR4 16G | • Certified DDR4 16GB 2133MHz RAM |
| DDR4 8G | • Certified DDR4 8GB 2133MHz RAM |
| DDR4 4G | • Certified DDR4 4GB 2133MHz RAM |
| PWA-280W-WT | • 280W, 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 |
| TMK2-20P-100 | • Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm |
| TMK2-20P-500 | • Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm |
| TMB-TMBK-20P | • Terminal Board with One 20-pin Terminal Block 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 | • Mini PCIe WiFi & Bluetooth Module with Antenna |

CPU List

| Series | CPU | Cache (MB) | Turbo Freq. (GHz) | TDP (W) | ECC Memory |
|--------------|-------------|------------|-------------------|---------|------------|
| Intel® Xeon® | E3-1275 v6 | 8 | 4.2 | 80 | Y |
| | E3-1275 v5 | | 4 | 80 | |
| | E3-1225 v5 | | 3.7 | 80 | |
| | E3-1268L v5 | | 3.4 | 35 | |
| Intel® Core™ | i7-7700 | 8 | 4.2 | 65 | NA |
| | i7-7700T | | 3.8 | 35 | |
| | i7-6700 | | 4 | 65 | |
| | i7-6700TE | | 3.4 | 35 | |

ECS-9280 GTX1050-20170720

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