

# EVS-1000 MXM1050

Intel® Xeon®/Core™ i7/i5/i3 GPU Computing System with Intel® C236 & NVIDIA® GeForce® GTX 1050Ti/GTX 1050, NVIDIA® Pascal™ architecture, 1 PCI/PCIe, 2 GigE LAN, 2 Front-access SSD Tray, 3 SIM, 6 USB 3.0, 4 COM, 32 Isolated DIO, Fanless, High Performance, Independent Graphics



## Features

- Fanless, -25°C to 60°C Operating Temperature
- LGA 1151 Socket supports workstation-grade 7th generation Intel® Xeon®/Core™ i7/i5/i3 Processor (Kaby Lake) with Intel® C236 Chipset
- Compact NVIDIA® GeForce® GTX 1050Ti/GTX 1050 MXM graphics engine supports NVIDIA® Pascal™ GPU architecture, up to 8K resolution
- 1 VGA, 1 DVI and 6 DisplayPort, up to 7 independent HD displays
- 3 SIM Card Socket for WiFi/4G/3G/LTE/GPRS/UMTS
- 2 Front-access 2.5" SSD Tray, 1 CFast Socket
- 1 PCI/PCIe, 3 Mini PCIe, Optional SUMIT A, B
- 32 Isolated DIO, 6 USB 3.0, 4 COM RS-232/422/485
- 10V to 36V DC-in with 80V Surge Protection
- Configurable Ignition Power Control



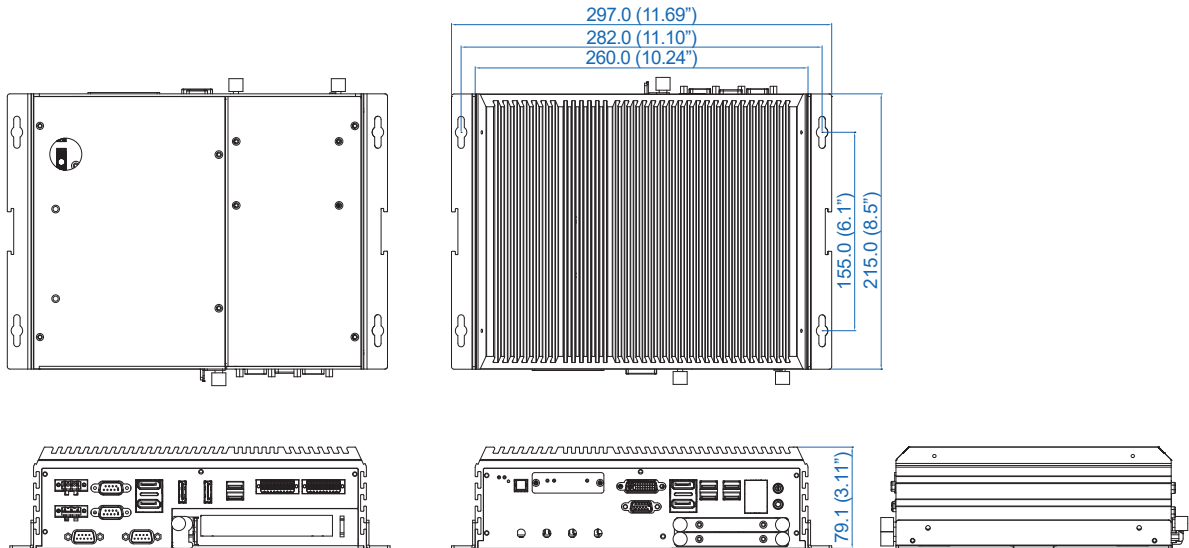
## Specifications

| System             |                                                                                                                                                                                                                                                            |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Processor          | Intel® Xeon®/Core™ i7/i5/i3 Processor (Kaby Lake-S/Skylake-S)                                                                                                                                                                                              |
| Chipset            | Intel® C236                                                                                                                                                                                                                                                |
| BIOS               | AMI                                                                                                                                                                                                                                                        |
| SIO                | IT8786E                                                                                                                                                                                                                                                    |
| Memory             | 2 DDR4 2400/2133 MHz SO-DIMM, up to 64GB (ECC/Non-ECC)                                                                                                                                                                                                     |
| I/O Interface      |                                                                                                                                                                                                                                                            |
| Serial             | 4 COM RS-232/422/485 (ESD 8KV)                                                                                                                                                                                                                             |
| USB                | <ul style="list-style-type: none"><li>▪ 6 USB 3.0 (External)</li><li>▪ 1 USB 2.0 (Internal)</li></ul>                                                                                                                                                      |
| Isolated DIO       | 32 Isolated DIO : 16 DI, 16 DO                                                                                                                                                                                                                             |
| LED                | Power, HDD                                                                                                                                                                                                                                                 |
| SIM Card           | 3 External SIM Card Socket                                                                                                                                                                                                                                 |
| Expansion          |                                                                                                                                                                                                                                                            |
| Mini PCIe          | 3 Mini PCIe Socket for PCIe/USB/External SIM Card/mSATA                                                                                                                                                                                                    |
| PCI/PCIe           | <b>EVS-1010</b> : 1 PCIe x4 Slot<br><b>EVS-1001</b> : 1 PCI Slot                                                                                                                                                                                           |
| SUMIT A, B         | 2 SUMIT Slot (Optional)                                                                                                                                                                                                                                    |
| Graphics           |                                                                                                                                                                                                                                                            |
| Graphics Processor | <ul style="list-style-type: none"><li>▪ Intel® HD Graphics 630/P530/530</li><li>▪ NVIDIA® GeForce® GTX 1050Ti/GTX 1050</li></ul>                                                                                                                           |
| Interface          | 8 Display Interfaces : <ul style="list-style-type: none"><li>▪ 1 VGA : Up to 1920 x 1200 @ 60Hz</li><li>▪ 1 DVI : Up to 1920 x 1200 @ 60Hz</li><li>▪ 2 DisplayPort : Up to 4096 x 2304 @ 60Hz</li><li>▪ 4 DisplayPort : Up to 7680 x 4320 @ 60Hz</li></ul> |
| Storage            |                                                                                                                                                                                                                                                            |
| SATA               | 2 SATA III (6Gbps) support S/W RAID 0, 1                                                                                                                                                                                                                   |
| mSATA              | 3 SATA III (Mini PCIe Type, 6Gbps)                                                                                                                                                                                                                         |
| Storage Device     | <ul style="list-style-type: none"><li>▪ 1 CFast Socket, Push-in/Push-out Ejector</li><li>▪ 2 Front-access 2.5" SSD/HDD Tray</li></ul>                                                                                                                      |
| Audio              |                                                                                                                                                                                                                                                            |
| Audio Codec        | Realtek ALC888S-VD, 7.1 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                                                                                                                                                                                                                                       |

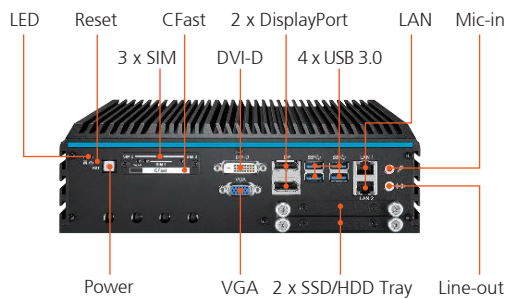
| Power                 |                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| Power Input           | 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 : On, Off, IGN                                                                               |
| 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.                                     |
| Software Support      |                                                                                                                   |
| OS                    | Windows 10, Windows 8.1, Windows 7, Linux                                                                         |
| Mechanical            |                                                                                                                   |
| Dimensions            | 260mm x 215mm x 79.1mm (10.2" x 8.5" x 3.1")                                                                      |
| Weight                | 4.2 kg (9.26 lb)                                                                                                  |
| Mounting              | <ul style="list-style-type: none"><li>▪ Wallmount by mounting bracket</li><li>▪ DIN Rail Mount</li></ul>          |
| Environment           |                                                                                                                   |
| Operating Temperature | -25°C to 60°C (-13°F to 140°F)                                                                                    |
| Storage Temperature   | -40°C to 85°C (-40°F to 185°F)                                                                                    |
| Humidity              | 5% to 95% Humidity, non-condensing                                                                                |
| Relative Humidity     | 95% @ 60°C                                                                                                        |
| Shock                 | <ul style="list-style-type: none"><li>▪ IEC 60068-2-27</li><li>▪ SSD : 50G @ wallmount, Half-sine, 11ms</li></ul> |
| Vibration             | <ul style="list-style-type: none"><li>▪ IEC 60068-2-64</li><li>▪ SSD : 5Grms, 5Hz to 500Hz, 3 Axis</li></ul>      |
| EMC                   | CE, FCC, EN50155, EN50121-3-2                                                                                     |

## Dimensions

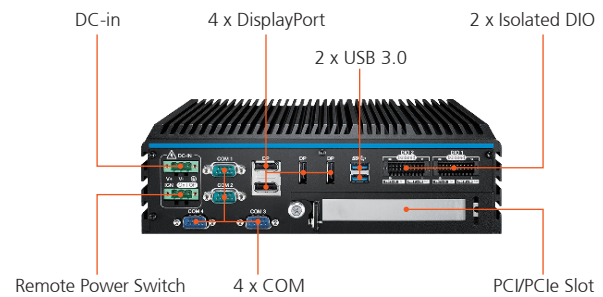
Unit : mm/ inch



## Front I/O



## Rear I/O



## Order Information

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| <b>EVS-1010 MXM1050T</b> | EVS-1000, NVIDIA® GeForce® GTX 1050Ti, 2 GigE LAN, 1 PCIe x4, 6 USB 3.0, 4 COM, 3 SIM, 32 Isolated DIO |
| <b>EVS-1010 MXM1050</b>  | EVS-1000, NVIDIA® GeForce® GTX 1050, 2 GigE LAN, 1 PCIe x4, 6 USB 3.0, 4 COM, 3 SIM, 32 Isolated DIO   |
| <b>EVS-1001 MXM1050T</b> | EVS-1000, NVIDIA® GeForce® GTX 1050Ti, 2 GigE LAN, 1 PCI, 6 USB 3.0, 4 COM, 3 SIM, 32 Isolated DIO     |
| <b>EVS-1001 MXM1050</b>  | EVS-1000, NVIDIA® GeForce® GTX 1050, 2 GigE LAN, 1 PCI, 6 USB 3.0, 4 COM, 3 SIM, 32 Isolated DIO       |

## Accessories

|                             |                                                                                                       |
|-----------------------------|-------------------------------------------------------------------------------------------------------|
| <b>DDR4 32G</b>             | Certified DDR4 32GB 2666MHz RAM                                                                       |
| <b>DDR4 16G</b>             | Certified DDR4 16GB 2400/2133 MHz RAM                                                                 |
| <b>DDR4 8G</b>              | Certified DDR4 8GB 2400/2133 MHz RAM                                                                  |
| <b>DDR4 4G</b>              | Certified DDR4 4GB 2400/2133 MHz RAM                                                                  |
| <b>PWA-160W-WT</b>          | 160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C |
| <b>PWA-280W-WT</b>          | 280W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C |
| <b>PWS-480W-WT</b>          | 480W, 24V, 90V AC to 305V AC Power Supply, Wide-Temp, IP65                                            |
| <b>PWS-600W</b>             | 600W, 24V, 90V AC to 305V AC Power Supply                                                             |
| <b>VESA Mount</b>           | VESA Mounting Kit                                                                                     |
| <b>DIN-RAIL Kit</b>         | DIN Rail and VESA Mounting Kit                                                                        |
| <b>Rack Mount</b>           | 2U Rackmount Kit                                                                                      |
| <b>TMK2-20P-100</b>         | Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm                                           |
| <b>TMK2-20P-500</b>         | Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm                                           |
| <b>TMB-TMBK-20P</b>         | Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting                         |
| <b>4G Module</b>            | Mini PCIe 4G/GPS Module with Antenna                                                                  |
| <b>WiFi &amp; Bluetooth</b> | WiFi & Bluetooth Module with Antenna                                                                  |

## CPU List

| Series       | CPU         | Cache (MB) | Turbo Freq. (GHz) | TDP (W) | ECC Memory |
|--------------|-------------|------------|-------------------|---------|------------|
| Intel® Xeon® | E3-1268L v5 | 8          | 3.4               | 35      | Y          |
|              | i7-7700T    | 8          | 3.8               | 35      | NA         |
| Intel® Core™ | i7-6700TE   | 6          | 3.4               | 35      | NA         |
|              | i5-7500T    | 6          | 3.3               | 35      | NA         |
|              | i5-6500TE   | 6          | 3.3               | 35      | NA         |
|              | i3-7101TE   | 3          | 3.4               | 35      | Y          |
|              | i3-6100TE   | 4          | 2.7               | 35      | Y          |