

# EVS-1000 Series

Intel® Xeon®/Core™ i7/i5/i3 Fanless GPU Computing System  
with Intel® C236 & NVIDIA® Quadro® MXM GPU Graphics

- 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/Skylake) with C236 Chipset
- Compact NVIDIA® Quadro® MXM graphics engine supports NVIDIA® Turing™ GPU architecture, up to 8K resolution
- Display : 1 VGA, 1 DVI and 6 DisplayPort, up to 7 independent HD displays
- 2 Front-access 2.5" SSD Tray, 1 CFAST Socket
- 3 SIM Card Socket for WiFi/4G/3G/LTE/GPRS/UMTS
- 1 PCI/PCIe Slot, 3 Mini PCIe, optional SUMIT A, B
- 10V to 36V DC-in with 80V Surge Protection
- 32 Isolated DIO, 6 USB 3.0, 4 COM RS-232/422/485
- Configurable Ignition Power Control



Robotic Control



AGV (Automatic Guided Vehicle)



Telemedicine



Simulator Training



intel  
partner  
Gold  
IoT Solutions



# Specifications

## System

Processor	Quad Core 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)
OS	Windows 10, Windows 8.1, Windows 7, Linux

## I/O Interface

Serial	4 COM RS-232/422/485 (ESD 8KV)
USB	- 6 USB 3.0 (External) - 1 USB 2.0 (Internal)
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 : - 3 Full-size for PCIe/USB/External SIM Card/mSATA
PCI/PCIe	1 PCI/PCIe x4 Slot
SUMIT A, B	2 SUMIT Slot (Optional)

## Graphics

Graphics Processor	- Intel® HD Graphics 630/P530/530 - Independent MXM Graphics : By request
Interface	8 Display Interfaces : - 1 VGA : Up to 1920 x 1200 @ 60Hz - 1 DVI : Up to 1920 x 1200 @ 60Hz - 2 DisplayPort : Up to 4096 x 2304 @ 60Hz - 4 DisplayPort : Up to 7680 x 4320 @ 60Hz

## Storage

SATA	2 SATA III (6Gbps) support S/W RAID 0, 1
mSATA	3 SATA III (Mini PCIe Type, 6Gbps)
Storage Device	- 1 CFast Socket, Push-in/Push-out Ejector - 2 Front-access 2.5" SSD/HDD Tray

## 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.

## Mechanical

Dimensions	(W) 260mm x (L) 215mm x (H) 79mm (10.2" x 8.5" x 3.1")
Weight	4.6 kg (10.14 lb)
Mounting	- Wallmount by mounting bracket - DIN Rail Mount - 2U Rackmount (Optional)

## Environment

Operating Temp.	-25°C to 60°C (-13°F to 140°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 60°C
Shock	- IEC 60068-2-27 - SSD : 50G @ wallmount, Half-sine, 11ms
Vibration	- IEC 60068-2-64 - SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC, EN50155, EN50121-3-2

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# Order Information

Model	Graphics MXM TDP	GigE LAN	PCIe x4	PCI	COM	USB 3.0	SIM	Isolated DIO
EVS-1010	50W	2	1	-	4	6	3	32
EVS-1001		-	-	1	-	-	-	-

## 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
	i7-6700TE	8	3.4	35	NA
Intel® Core™	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

## Accessories

DDR4 32G	Certified DDR4 32GB 2666MHz RAM
DDR4 16G	Certified DDR4 16GB 2400/2133 MHz RAM
DDR4 8G	Certified DDR4 8GB 2400/2133 MHz RAM
DDR4 4G	Certified DDR4 4GB 2400/2133 MHz RAM
PWA-120W1	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-160W-WT	160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-180W	180W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-280W-WT	280W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWS-480W-WT	480W, 24V, 90V AC to 305V AC Power Supply, Wide-Temp, IP65
PWS-600W1	600W, 24V, 90V AC to 264V AC Power Supply
VESA Mount	VESA Mounting Kit
DIN-RAIL Kit	DIN Rail and VESA Mounting Kit
Rack Mount	2U Rackmount 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
4G Module	Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna

# Dimensions & Drawing

Unit : mm (inch)

