

EVS-1100 Series



Intel® Xeon®/Core™ i7/i5/i3 GPU Computing System with Intel® C236 & NVIDIA® GeForce® GTX 1070/1060/1050

- LGA 1151 Socket supports workstation-grade 7th generation Intel® Xeon®/Core™ i7/i5/i3 Processor (Kaby Lake/Skylake) with C236
- Compact NVIDIA® GeForce® GTX 10 Series MXM graphics engine supports NVIDIA® Pascal™ 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/3G/4G/LTE/GPRS/UMTS
- 1 PCI/PCIe Slot, 3 Mini PCIe, Optional SUMIT A, B
- 10V to 36V DC-in, 80V Surge Protection
- All-in-one, -25°C to 60°C Operating Temperature
- 32 Isolated DIO, 6 USB 3.0, 3 COM RS-232/422/485
- Configurable Ignition Power Control



Robot Control



Autonomous Vehicle



Deep Learning



Simulator Training



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 2133MHz SO-DIMM, up to 32GB (ECC/Non-ECC)
OS	Windows 10, Windows 8.1, Windows 7, Linux

I/O Interface

Serial	3 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 630/530 - NVIDIA® GeForce® GTX 1070/1060/1050 (MXM Module)
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 3840 @ 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 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

Power

Power Input	EVS-1100 MXM1050, MXM1060 : 10V to 36V, DC-in EVS-1100 MXM1070 : 16V 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) 115mm (10.2" x 8.5" x 4.5")
Weight	4.9 kg (10.8 lb)
Mounting	- Wallmount by mounting bracket - DIN Rail Mount - 2U Rackmount (Optional)

Environment

Operating Tem.	-25°C to 60°C (-13°F to 140°F)
Storage Tem.	-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

Order Information

Model Name	NVIDIA® GeForce® GTX	GigE LAN	PCIe x4	PCI	COM	USB 3.0	SIM	Isolated DIO
EVS-1110-MXM1070	1070		1	-				
EVS-1101-MXM1070	1070		-	1				
EVS-1110-MXM1060	1060		1	-	3	6	3	32
EVS-1101-MXM1060	1060		-	1				
EVS-1110-MXM1050	1050		1	-				
EVS-1101-MXM1050	1050		-	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

PWA-160W-WT	160W, 24V, 85VAC to 264VAC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
PWA-280W-WT	280W, 24V, 85VAC to 264VAC 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-600W	600W, 24V, 90V AC to 305V AC Power Supply
VESA Mount	VESA Mounting Kit
DIN-RAIL	DIN Rail 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	Mini PCIe WiFi & Bluetooth Module with Antenna

Dimensions & Drawing

Unit: mm (inch)

