Vecow

ECS-9200/9100 PEG

Intel® Xeon®/Core™ i7/i5/i3 (Kaby Lake/Skylake) AI Computing System with NVIDIA® Tesla®/Quadro®/GeForce®/AMD Radeon™ Graphics

- Workstation-grade Intel® Xeon®/Core™ i7/i5/i3 Processor (Kabylake/Skylake) with Intel® C236
- 2 DDR4 2400MHz Memory, up to 64GB (ECC/Non-ECC)
- NVIDIA® Tesla®/Quadro®/GeForce® graphics card, powered by advanced NVIDIA Turing/Pascal architecture, delivers leading AI computing productivity
- Multiple DVI, HDMI and DisplayPort display interfaces support max 7 independent displays, up to 8K Resolution
- 6 Independent GigE LAN with 4 IEEE 802.3at PoE+
- 3 SIM Card Socket for WiFi/3G/4G/LTE/GPRS/UMTS
- Storage : 2 2.5" SSD Tray, 1 CFast, 2 SATA III
- Expansion : 1 M.2 Socket, 3 Mini PCIe/mSATA
- 32 Isolated DIO, 8 USB 3.0, 4 COM
- 10V to 36V DC-in with 80V Surge Protection
- Configurable Ignition Power Control

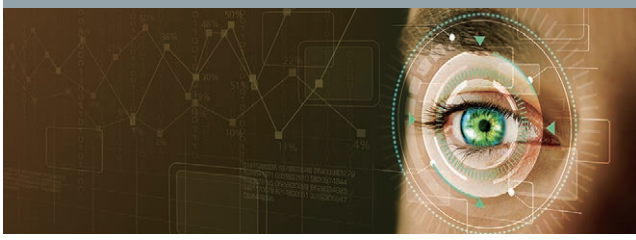
Machine Vision



Traffic Vision



Deep Learning



Telemedicine







8K PoE Isolated DIO SIM M.2 SS TPM 10V~36V 80V -20° 45°

E13 EN50155 CE FC RoHS

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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 2400MHz 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	- 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	3 Full-size for PCIe/USB/External SIM Card/mSATA
M.2	1 M.2 Socket (Key ID : M)

Graphics

Graphics Processor	- Intel® HD Graphics P630/630/P530/530 - Independent Graphics : By request
Interface	Up to 7 Display interfaces : - 2 DVI : Up to 1920 x1200 @ 60 Hz - 1 DisplayPort : Up to 4096 x 2304 @ 60Hz - By requested Graphics Card

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

PoE (ECX-1200)

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

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 Mgmt.	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

Mechanical

Dimensions	260.0mm x 215.0mm x 79.0mm (10.24" x 8.46" x 3.11")
Weight	4.3 kg (9.48 lb)
Mounting	- Wallmount by mounting bracket - DIN Rail Mount (Optional) - 2U Rackmount (Optional)

Environment

Operating Temp.	-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% @ 45°C
Shock	IEC 61373
Vibration	IEC 61373
EMC	E13, CE, FCC, EN50155, EN50121-3-2

Order Information

Model Name	GigE LAN	PoE+	SSD Tray	USB 3.0	COM	SIM	Isolated DIO	GPIO
ECS-9200-PEG	6	4	2	8	4	3	32	-
ECS-9100-PEG	2	-					-	16

CPU List

Series	CPU	Cores	GHz	TDP (W)	ECC RAM
Intel® Xeon®	E3-1275 v6	8	4.2	80	Y
	E3-1275 v5	8	4	80	Y
	E3-1225 v5	8	3.7	80	Y
	E3-1268L v5	8	3.4	35	Y
Intel® Core™	i7-7700	8	4.2	65	N/A
	i7-7700T	8	3.8	35	N/A
	i7-6700	8	4	65	N/A
	i7-6700TE	8	3.4	35	N/A
	i5-7500	6	3.8	65	N/A
	i5-7500T	6	3.3	35	N/A
	i5-6500	6	3.6	65	N/A
	i5-6500TE	6	3.3	35	N/A
	i3-7101E	3	3.9	65	Y
	i3-7101TE	3	3.4	35	Y
	i3-6100	4	3.7	65	Y
	i3-6100TE	4	2.7	35	Y

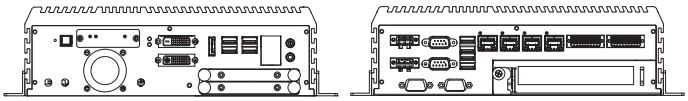
Accessories

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-280W-WT	280W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
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 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

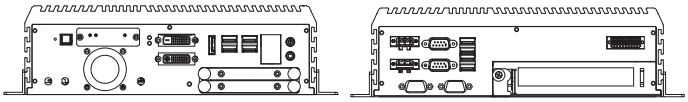
Dimensions & Drawing

Unit : mm (inch)

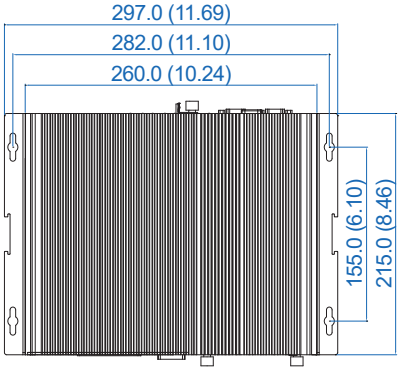
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