

ECS-9200/9100 GTX1050

Quad Core Intel® Xeon®/Core™ i7 (Kaby Lake/Skylake) Embedded System with Intel® C236 & NVIDIA GeForce® GTX 1050 Ti/GTX 1050, NVIDIA Pascal™ architecture, 6 GigE LAN with 4 PoE+, 2 Front-access SSD Tray, 8 USB 3.0, M.2 Socket, 3 SIM, 4 COM, 32 Isolated DIO, High Performance, Independent Graphics, EN50155, EN50121



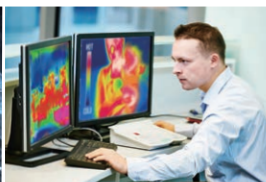
- LGA 1151 Socket supports workstation-grade Intel® Xeon®/Core™ i7 Processor with C236
- 2 DDR4 2133MHz Memory, up to 32GB (ECC/Non-ECC)
- 6 Independent GigE LAN with 4 IEEE 802.3at PoE+
- 3 SIM Card Socket for WiFi/3G/4G/LTE/GPRS/UMTS
- 10V to 36V DC-in with 80V Surge Protection
- Configurable Ignition Power Control
- NVIDIA GeForce® GTX10 Series graphics engine supports NVIDIA Pascal™ GPU architecture, up to 8K resolution
- Display : 3 DVI, 1 HDMI and 2 DisplayPort, up to 6 independent HD displays
- 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



Machine Vision



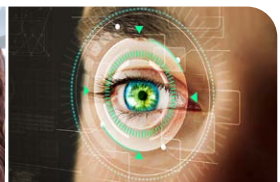
Traffic Vision



Embedded Workstation



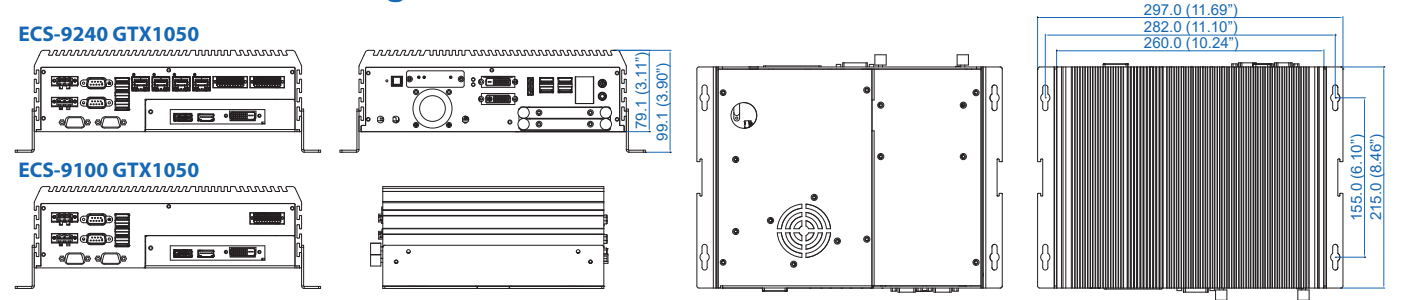
Telemedicine



Deep Learning



Dimensions & Drawing Unit: mm (inch)



Specifications

System		PoE (ECS-9200)	
Processor	Quad Core Intel® Xeon®/Core™ i7 Processor (Kaby Lake-S/Skylake-S)	LAN 3	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210
Chipset	Intel® C236	LAN 4	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210
BIOS	AMI	LAN 5	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210
SIO	IT8786E	LAN 6	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210
Memory	2 DDR4 2400MHz SO-DIMM, up to 64GB (ECC/Non-ECC)	Power	
OS	Windows 10, Windows 8.1, Windows 7, Linux	Power Input	10V to 36V, DC-in
I/O Interface		Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Serial	4 COM RS-232/422/485 (ESD 8KV)	Ignition Control	16 Mode (Internal)
USB	• 8 USB 3.0 (External) • 1 USB 2.0 (Internal)	Remote Switch	3-pin Terminal Block
Isolated DIO	32 Isolated DIO : 16 DI, 16 DO	Surge Protection	Up to 80V/1ms Transient Power
LED	Power, HDD, PoE, Wireless	Others	
SIM Card	3 SIM Card Socket (External)	TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Expansion		Watchdog Timer	Reset : 1 to 255 sec./min. per step
Mini PCIe	3 Full-size for PCIe/USB/External SIM Card/mSATA	Smart Management	Wake on LAN, PXE supported
M.2	1 M.2 Socket (Key ID : M)	HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.
Graphics		Mechanical	
Processor	• Intel® HD Graphics P630/630/P530/530 • NVIDIA GeForce® GTX 1050 Ti/GTX 1050	Dimensions	260mm x 215mm x 79mm (10.2" x 8.5" x 3.1")
Interface	6 Display interfaces : • 3 DVI : Up to 1920 x 1200 @ 60 Hz • 1 DisplayPort : Up to 7680 x 3840 @ 60Hz • 1 DisplayPort : Up to 4096 x 2304 @ 60Hz • 1 HDMI : Up to 4096 x 2160 @ 60Hz	Weight	4.3 kg (9.48 lb)
Storage		Mounting	• Wallmount by mounting bracket • DIN Rail Mount (Optional) • 2U Rackmount (Optional)
SATA	2 SATA III (6Gbps) support S/W RAID 0, 1	Environment	
mSATA	3 SATA III (Mini PCIe Type, 6Gbps)	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) -40°C to 85°C (-40°F to 185°F)
Storage Device	• 1 CFast Socket, Push-in/Push-out Ejector • 2 Front-access 2.5" SSD/HDD Tray	Storage Temp.	5% to 95% Humidity, non-condensing
Audio		Humidity	95% at 60°C
Audio Codec	Realtek ALC892, 5.1 Channel HD Audio	Relative Humidity	• IEC 60068-2-27
Audio Interface	1 Mic-in, 1 Line-out	Shock	• SSD : 50G @ wallmount, Half-sine, 11ms • IEC 60068-2-64
Ethernet		Vibration	• SSD : 5Grms, 5Hz to 500Hz, 3 Axis
LAN 1	Intel® I219LM GigE LAN supports iAMT 11.0	EMC	E13, CE, FCC, EN50155, EN50121-3-2
LAN 2	Intel® I210 GigE LAN		

Order Information

ECS-9240-GTX1050T

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ECS-9100-GTX1050T

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DDR4 32G

DDR4 16G

DDR4 8G

DDR4 4G

PWA-280W-WT

PWA-160W-WT

VESA Mount

DIN-RAIL Kit

Rack Mount

TMK2-20P-100

TMK2-20P-500

TMB-TMBK-20P

4G Module

WiFi & Bluetooth

ECS-9200, NVIDIA GeForce® GTX 1050 Ti, 6 GigE LAN w/4 PoE*, 2 SSD Tray, 8 USB 3.0, 4 COM, 1 M.2, 3 SIM, 32 Isolated DIO

ECS-9200, NVIDIA GeForce® GTX 1050, 6 GigE LAN w/4 PoE*, 2 SSD Tray, 8 USB 3.0, 4 COM, 1 M.2, 3 SIM, 32 Isolated DIO

ECS-9100, NVIDIA GeForce® GTX 1050 Ti, 2 GigE LAN, 2 SSD Tray, 8 USB 3.0, 4 COM, 1 M.2, 3 SIM, 16 GPIO

ECS-9100, NVIDIA GeForce® GTX 1050, 2 GigE LAN, 2 SSD Tray, 8 USB 3.0, 4 COM, 1 M.2, 3 SIM, 16 GPIO

Certified DDR4 32GB 2666MHz RAM

Certified DDR4 16GB 2400/2133 MHz RAM

Certified DDR4 8GB 2400/2133 MHz RAM

Certified DDR4 4GB 2400/2133 MHz RAM

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

160W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C

VESA Mounting Kit

DIN Rail and VESA Mounting Kit

2U Rackmount Kit

Terminal Block 20-pin to Terminal Block 20-pin Cable, 100cm

Terminal Block 20-pin to Terminal Block 20-pin Cable, 500cm

Terminal Board with One 20-pin Terminal Block Connector and DIN-Rail Mounting

Mini PCIe 4G/GPS Module with Antenna

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	