

ECS-9055 Series

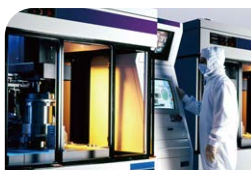
Workstation-grade 7th Generation Intel® Xeon®/Core™ i7/i5/i3 Processor (Kaby Lake/Skylake) 10GigE Embedded System with Intel® C236 Chipset, 6 GigE LAN with 4 PoE+, 2 10GigE LAN, 2 Front-access SSD/HDD Tray, Isolated DIO, High Performance, EN50155, EN50121



10GigE



- LGA 1151 Socket supports workstation-grade Intel® Xeon®/Core™ i7/i5/i3 Processor and Intel® C236 Chipset
- SIM Sockets for 3G/4G/LTE/WiFi/GPRS/UMTS
- 6 external USB 3.0, 4 COM RS-232/422/485
- Dual 10GigE LAN, up to 10Gbps data rate
- 6 Independent GigE LAN with 4 IEEE 802.3at PoE+
- 6V to 36V DC-in, 80V Surge Protection
- 16 Isolated DIO, Ignition Power Control
- Front-access : 2 2.5" SSD Tray, 3 SIM, 1 CFast



Intelligent Automation



Vehicle Computing



Machine Vision



Intelligent Surveillance

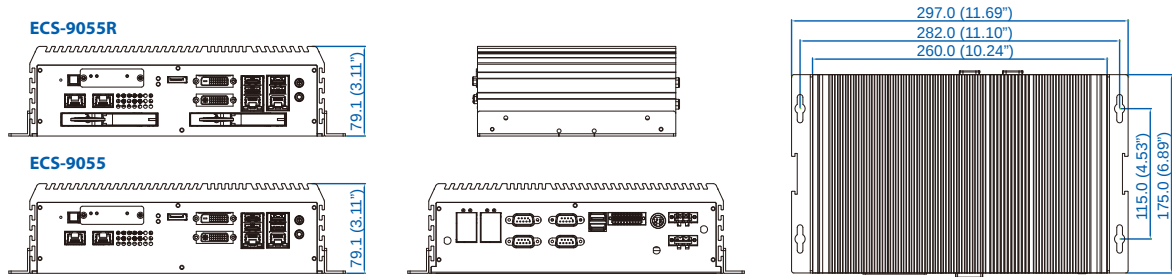


Energy Management



Vecow

Dimensions & Drawing Unit: mm (inch)



Specifications

System		PoE	
Processor	Quad Core Intel® Xeon®/Core™ i7/i5/i3 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 2400/2133 MHz SO-DIMM, up to 64GB	10G Ethernet	
OS	Windows 10, Windows 8.1, Windows 7, Linux	LAN 7	Intel® X550-AT2 10GigE LAN
I/O Interface		LAN 8	Intel® X550-AT2 10GigE LAN
Serial	4 COM RS-232/422/485	Power	
USB	• 6 USB 3.0 (External) • 1 USB 3.0 (Internal)	Power Input	6V to 36V, DC-in
Isolated DIO	16 Isolated DIO : 8 DI, 8 DO	Power Interface	• 3-pin Terminal Block : V+, V-, Frame Ground • Mini-DIN 4-pin
LED	Power, HDD, PoE, Wireless	Ignition Control	16 Mode (Internal)
SIM Card	3 SIM Card Socket (External)	Remote Switch	3-pin Terminal Block : On, Off, IGN
Expansion		Surge Protection	Up to 80V/1ms Transient Power
Mini PCIe	3 Mini PCIe Socket : • 2 Full-size for PCIe/USB/External SIM/mSATA • 1 Half-size for PCIe/USB 3.0/External SIM	Others	
Graphics		TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Processor	Intel® HD Graphics P630/630/P530/530	Watchdog Timer	Reset : 1 to 255 sec./min. per step
Interface	• DVI-I : Up to 1920 x 1200 @ 60Hz • DVI-D : Up to 1920 x 1200 @ 60Hz • DisplayPort : Up to 4096 x 2304 @ 60Hz	Smart Management	Wake on LAN, PXE supported
Storage		HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats
SATA	2 SATA III (6Gbps)	Mechanical	
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)	Dimension	260mm x 175mm x 79mm (10.2" x 6.9" x 3.1")
SATA DOM	1 SATA II (3Gbps)	Weight	3.9 kg (8.60 lb)
Storage Device	• 1 CFast Socket, Push-in/Push-out Ejector • 2 Front-access 2.5" SSD/HDD Tray	Mounting	• Wallmount by mounting bracket • DIN Rail Mount
Audio		Environment	
Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio	Operating Temp.	-40°C to 55°C (-40°F to 131°F)
Audio Interface	1 Mic-in, 1 Line-out	Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Ethernet		Humidity	5% to 95% Humidity, non-condensing
LAN 1	Intel® I219LM GigE LAN supports iAMT 11.0	Relative Humidity	95% @ 55°C
LAN 2	Intel® I210 GigE LAN	Shock	• IEC 60068-2-27 • SSD : 50G @ wallmount, Half-sine, 11ms • IEC 60068-2-64 • SSD : 5Grms, 5Hz to 500Hz, 3 Axis
		Vibration	E13, CE, FCC, EN50155, EN50121-3-2
		EMC	

Order Information

ECS-9055R	• ECS-9000, Intel® Core™ i7/i5/i3 Processor (Skylake-S), 6 GigE LAN with 4 PoE+, 2 10G RJ45, 2 SSD Tray, 4 COM, 3 SIM, 6 USB 3.0, 16 Isolated DIO
ECS-9055	• ECS-9000, Intel® Core™ i7/i5/i3 Processor (Skylake-S), 6 GigE LAN with 4 PoE+, 2 10G RJ45, 4 COM, 3 SIM, 6 USB 3.0, 16 Isolated DIO
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-120W	• 120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
PWA-120WM4P	• 120W, 24V, 90V AC to 264V AC Power Adapter with 4-pin Mini-DIN Connector
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 132V AC/ 180V AC to 264V AC Power Adapter with 3-pin Terminal Block, 0°C to +40°C
PWA-280W-WT	• 280W, 24V, 85V AC to 264V AC Power Adapter with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
TMK2-20P-100	• Terminal Block 20-pin to Terminal Block Cable, 100cm
TMK2-20P-500	• Terminal Block 20-pin to Terminal Block Cable, 500cm
TMB-TMBK-20P	• Terminal Board with One 20-pin Terminal Block and DIN-Rail Mounting
VESA Mount	• VESA Mounting Kit
DIN-RAIL Kit	• DIN Rail and VESA Mounting Kit
Rack Mount	• 2U Rackmount Kit
4G Module	• Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth	• 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	
	i5-7500	6	3.8	65	NA
	i5-7500T		3.3	35	
	i5-6500		3.6	65	
	i5-6500TE		3.3	35	
	i3-7101E	3	3.9	65	Y
	i3-7101TE		3.4	35	
	i3-6100	4	3.7	65	
	i3-6100TE		2.7	35	

ECS-9055-20210319

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