

ECS-9071 Series

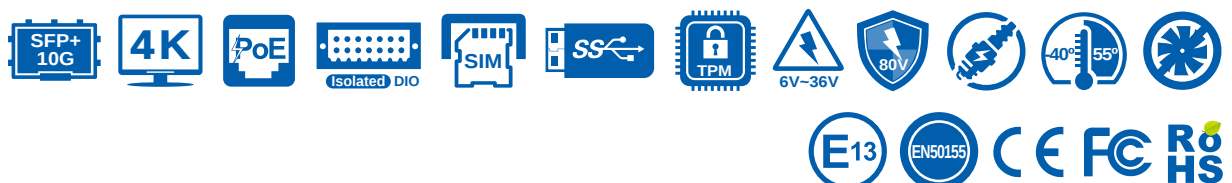
Workstation-grade 7th Generation Intel® Xeon®/Core™ i7/i5/i3 Processor (Kaby Lake/Skylake) 10GigE Embedded System with Intel® C236 Chipset, 6 GigE LAN with 4 PoE+, 2 10GigE SFP+, 2 Front-access SSD/HDD Tray, Isolated DIO, High Performance, Fanless, EN50155, EN50121



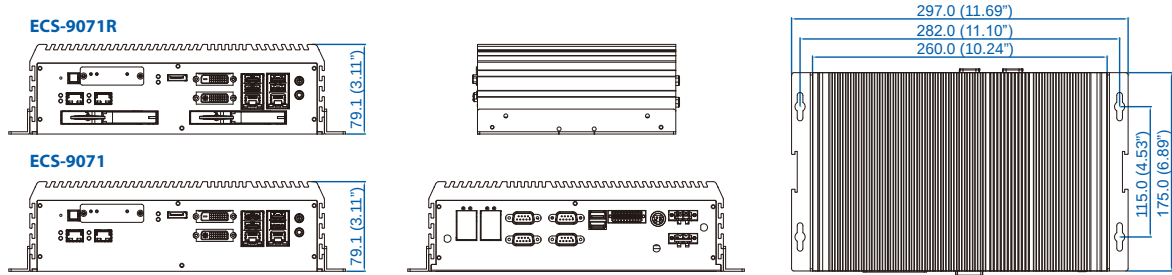
10GigE



- LGA 1151 Socket supports workstation-grade Intel® Xeon®/Core™ i7/i5/i3 Processor with C236
- 6 Independent GigE LAN with 4 IEEE 802.3at PoE+
- SIM Sockets for WiFi/4G/3G/LTE/GPRS/UMTS
- 6 external USB 3.0, 4 COM RS-232/422/485
- Dual 10GigE 10GBASE-T SFP+, up to 10Gbps data rate
- Fanless design, -40°C to 55°C operation
- 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



Dimensions & Drawing Unit: mm (inch)



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
OS	Windows 10, Windows 8.1, Windows 7, Linux
I/O Interface	
Serial	4 COM RS-232/422/485
USB	• 6 USB 3.0 (External) • 1 USB 3.0 (Internal)
Isolated DIO	16 Isolated DIO : 8 DI, 8 DO
LED	Power, HDD, PoE, Wireless
SIM Card	3 SIM Card Socket (External)
Expansion	
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
Graphics	
Processor Interface	Intel® HD Graphics P630/630/P530/530 • DVI-I : Up to 1920 x 1200 @ 60Hz • DVI-D : Up to 1920 x 1200 @ 60Hz • DisplayPort : Up to 4096 x 2304 @ 60Hz
Storage	
SATA	2 SATA III (6Gbps)
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)
SATA DOM	1 SATA II (3Gbps)
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
PoE	
LAN 3	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210
LAN 4	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210
LAN 5	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210
LAN 6	GigE IEEE 802.3at (25.5W/48V) PoE+ by Intel® I210
10G Ethernet	
LAN 7	Intel® X710-BM2 10GigE LAN supports IEEE 802.3 10GBASE-T SFP+
LAN 8	Intel® X710-BM2 10GigE LAN supports IEEE 802.3 10GBASE-T SFP+
Power	
Power Input	6V to 36V, DC-in
Power Interface	• 3-pin Terminal Block : V+, V-, Frame Ground • Mini-DIN 4-pin
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	
Dimension	260mm x 175mm x 79mm (10.2" x 6.9" x 3.1")
Weight	3.9 kg (8.6 lb)
Mounting	• Wallmount by mounting bracket • DIN Rail Mount
Environment	
Operating Temp.	-40°C to 55°C (-40°F to 131°F)
Storage Temp.	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 55°C
Shock	• IEC 60068-2-27 • SSD : 50G @ wallmount, Half-sine, 11ms • IEC 60068-2-64
Vibration	• SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	E13, CE, FCC, EN50155, EN50121-3-2

Order Information

ECS-9071R	• ECS-9000, Intel® Core™ i7/i5/i3 Processor (Skylake-S), 6 GigE LAN with 4 PoE+, 2 10G SFP+, 2 SSD Tray, 4 COM, 3 SIM, 6 USB 3.0, 16 Isolated DIO
ECS-9071	• ECS-9000, Intel® Core™ i7/i5/i3 Processor (Skylake-S), 6 GigE LAN with 4 PoE+, 2 10G SFP+, 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-9071-20210319

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