

ECS-9055 Series

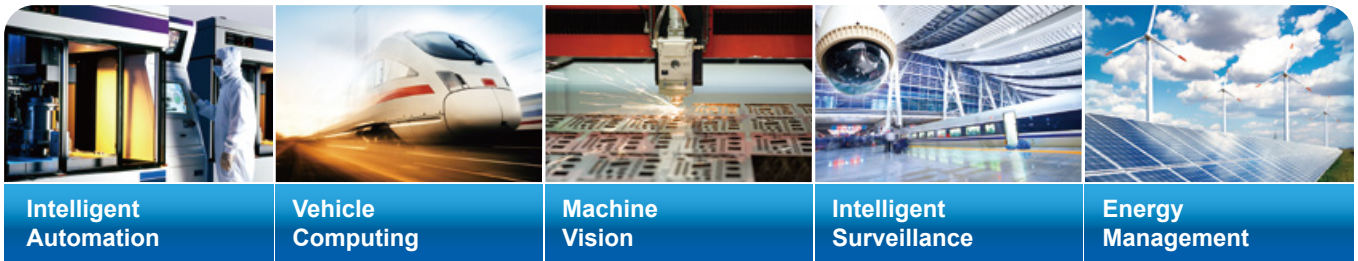
Quad Core Intel® Core™ i7/ i5/ i3 Processor (Skylake-S) Embedded System with Intel® C236 Chipset, 6 GigE LAN with 4 PoE+, 2 10 GigE LAN, 2 Front-access SSD/ HDD Tray, M2DOM, Isolated DIO, High Performance, EN50155, EN50121



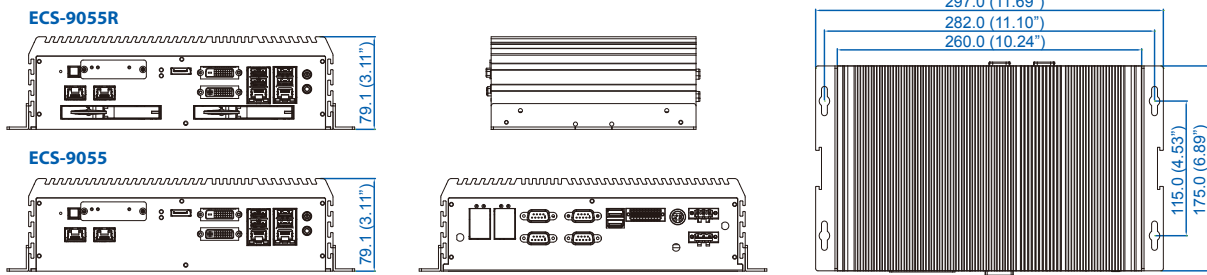
10GigE



- LGA 1151 Socket supports Quad Core Intel® Core™ i7/ i5/ i3 Processor (Skylake-S)
- 6 Independent GigE LAN with 4 IEEE 802.3at PoE+
- SIM Sockets for 3G/ 4G/ LTE/ WiFi/ GPRS/ UMTS
- 6 USB 3.0, 4 COM RS-232/ 422/ 485
- Dual 10 GigE LAN, up to 10Gbps data rate
- M2DOM supports up to 8GT/s data rate
- 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	Intel® Core™ i7-6700/ i7-6700TE/ i5-6500/ i5-6500TE/ i3-6100/ i3-6100TE Processor (Skylake-S)
Chipset	Intel® C236
BIOS	AMI
SIO	IT8786E
Memory	2 DDR4 2133MHz SO-DIMM, up to 32GB
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 2.0 (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
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Graphics

Processor Interface	Intel® HD Graphics 530 • DVI-I : Up to 1920 x 1200 @ 60Hz • DVI-D : Up to 1920 x 1200 @ 60Hz • DisplayPort : Up to 4096 x 2304 @ 60Hz
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Storage

SATA	2 SATA III (6Gbps)
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)
SATA DOM	1 SATA II (3Gbps)
M2DOM	1 PCIe 3.0 (8GT/s)/ SATA III (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

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® X550-AT2 10 GigE LAN
LAN 8	Intel® X550-AT2 10 GigE LAN

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 (8.60 lb)
Mounting	• Wallmount by mounting bracket • DIN Rail Mount

Environment

Operating Temp.	-25°C to 55°C (-13°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
Vibration	• IEC 60068-2-64 • SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC, EN50155, EN50121-3-2

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
i7-6700	• 6th Gen Intel® Core™ i7-6700 Processor (8M Cache, up to 4.0 GHz)
i7-6700TE	• 6th Gen Intel® Core™ i7-6700TE Processor (8M Cache, up to 3.40 GHz)
i5-6500	• 6th Gen Intel® Core™ i5-6500 Processor (6M Cache, up to 3.60 GHz)
i5-6500TE	• 6th Gen Intel® Core™ i5-6500TE Processor (6M Cache, up to 3.30 GHz)
i3-6100	• 6th Gen Intel® Core™ i3-6100 Processor (3M Cache, up to 3.70 GHz)
i3-6100TE	• 6th Gen Intel® Core™ i3-6100TE Processor (4M Cache, up to 2.70 GHz)
DDR4 16G	• Certified DDR4 16GB 2133MHz RAM
DDR4 8G	• Certified DDR4 8GB 2133MHz RAM
DDR4 4G	• Certified DDR4 4GB 2133MHz 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-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	• DIN Rail Kit
Rack Mount	• 2U Rackmount Kit
3G Module	• Mini PCIe 3G/GPS Module with Antenna
4G Module	• Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth Module	• Intel® Mini PCIe WiFi & Bluetooth Module with Antenna

ECS-9055-20161020

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