

RCS-9422R/9422RH

Quad Core Intel® Xeon®/Core™ i7/i5/i3 (Kaby Lake) Fanless Robust Computing System with Intel® C236 Chipset, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 2 PCI, 4 Front-access SSD Tray, 7 USB 3.0, 4 COM, 3 SIM, 32 Isolated DIO, Rugged, -40°C to 75°C Extended Temperature



Features

- LGA 1151 Socket supports workstation-grade Intel® Xeon®/Core™ i7/i5/i3 Processor (Kaby Lake/Skylake) with Intel® C236 Chipset
- Onboard DVI-I, DVI-D and DisplayPort display interface, up to 3 independent HD displays
- Fanless, -40°C to 75°C Operating Temperature
- 6V to 36V DC Power Input with 80V Surge Protection
- 2 Independent GigE LAN, iAMT 11.0 supported
- Front-access : 4 2.5" SSD/HDD Tray, 2 SIM Socket, 6 USB 3.0, 4 COM
- Expansion : 1 PCIe x16, 1 PCIe x4, 2 PCI
- 3 SIM Card Socket for WiFi/4G/3G/LTE/GPRS/UMTS
- 7 USB 3.0, 3 Mini PCIe, 1 mSATA, 1 CFast Socket
- 32 Isolated DIO, Remote Power Switch
- Configurable Ignition Power Control



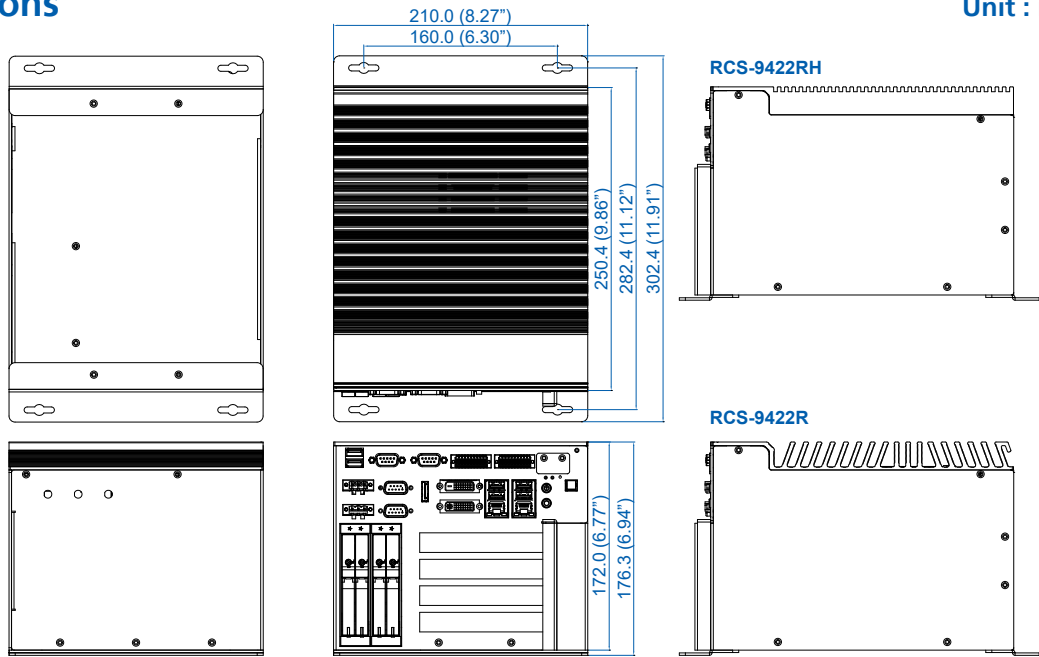
Specifications

System	
Processor	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 32GB
I/O Interface	
Serial	4 COM RS-232/422/485
USB	<ul style="list-style-type: none"> ▪ 7 USB 3.0 (6 External, 1 Internal) ▪ 2 USB 2.0 (Internal)
Isolated DIO	32 Isolated DIO : 16 DI, 16 DO
LED	Power, HDD, Wireless
SIM Card	3 SIM Card Socket (2 External, 1 Internal)
Expansion	
Mini PCIe	3 Mini PCIe Socket : <ul style="list-style-type: none"> ▪ 2 Full-size for PCIe/USB/External SIM Card ▪ 1 Full-size for PCIe/USB/Internal SIM Card/mSATA
PCIe	<ul style="list-style-type: none"> ▪ 1 PCIe x16 Slot ▪ 1 PCIe x4 Slot
PCI	2 PCI Slot
Graphics	
Graphics Processor	Intel® HD P630/P530/630/530
Interface	<ul style="list-style-type: none"> ▪ 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	4 SATA III (6Gbps) support S/W RAID 0, 1, 5, 10
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)
Storage Device	<ul style="list-style-type: none"> ▪ 1 CFast Socket (Internal) ▪ 4 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

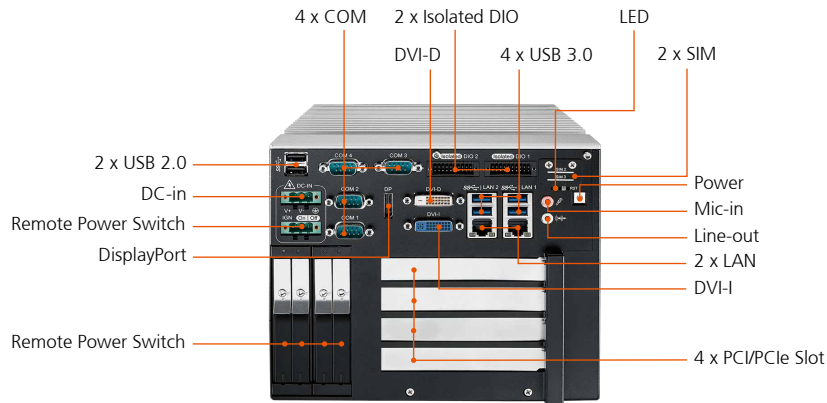
Power	
Power Input	6V to 36V, DC-in
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Ignition Control	16 Mode (Internal)
Remote Switch	3-pin Terminal Block : On, Off, IGN
Surge Protection	Up to 80V/1ms Transient Power
Others	
TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Watchdog 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.
Software Support	
OS	Windows 10, Windows 8.1, Windows 7, Linux
Mechanical	
Dimensions (W x L x H)	172mm x 250mm x 210mm (6.77" x 9.86" x 8.27")
Weight	RCS-9422R : 3.8 kg (8.4 lb) RCS-9422RH : 5.0 kg (11.0 lb)
Mounting	Wallmount by mounting bracket
Environment	
Operating Temperature	35W TDP CPU : <ul style="list-style-type: none"> ▪ Xeon® E3-1268L v5 : -40°C to 70°C (-40°F to 158°F) ▪ Core™ i7, i5, i3 : -40°C to 75°C (-40°F to 167°F)
	65W TDP CPU : <ul style="list-style-type: none"> ▪ Core™ i7, i5, i3 : -40°C to 55°C (-40°F to 131°F)
	80W TDP CPU : <ul style="list-style-type: none"> ▪ Xeon® E3-1275 v6, E3-1275 v5, E3-1225 v5 : -40°C to 45°C (-40°F to 113°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 75°C
Shock	<ul style="list-style-type: none"> ▪ IEC 60068-2-27 ▪ SSD : 50G @ wallmount, Half-sine, 11ms
Vibration	<ul style="list-style-type: none"> ▪ IEC 60068-2-64 ▪ SSD : 5Grms, 5Hz to 500Hz, 3 Axis
Certification	CE, FCC, EN50155, EN50121-3-2

Dimensions

Unit : mm/ inch



Front I/O



Order Information

RCS-9422R	RCS-9000, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 2 PCI, 4 SSD Tray, 7 USB 3.0, 4 COM, 3 SIM, Isolated DIO
RCS-9422RH	RCS-9000 w/65W CPU, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 2 PCI, 4 SSD Tray, 7 USB 3.0, 4 COM, 3 SIM, Isolated DIO

Accessories

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
PWA-120W	120W, 24V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block
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

CPU List

Series	CPU	Cache (MB)	Turbo Freq. (GHz)	TDP (W)	ECC Memory
Intel® Xeon®	E3-1275 v6	8	4.2	80	Yes
	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	Yes	
	i3-7101E	3	3.9		65
	i3-7101TE		3.4		35
i3-6100	4	3.7	65		
i3-6100TE		2.7	35		