

RCS-9000F Series

Workstation-grade 7th Generation Intel® Xeon®/Core™ i7/i5/i3 Fanless Robust Computing System w/ Intel® C236 Chipset, 2 GigE LAN, 7 USB 3.0, 4 COM, 3 PCI/PCIe Slot, 3 SIM, 32 Isolated DIO, Rugged, High Performance, Flexible, Expandable, Fanless -40°C to 75°C Extended Temperature

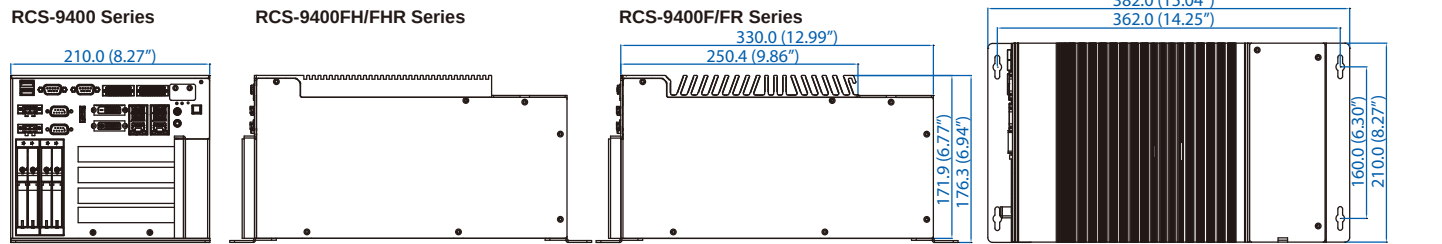


- Fanless, -40°C to 75°C Operating Temperature
- LGA 1151 Socket supports workstation-grade 7th generation Intel® Xeon®/Core™ i7/i5/i3 Processor (Kaby Lake) with C236
- Onboard DVI-I, DVI-D and DisplayPort display interface, up to 3 independent HD displays
- 6V to 36V DC Power Input with 80V Surge Protection
- Max 250W Power Budget for independent graphics operation
- 2 Independent GigE LAN, iAMT 11.0 supported
- 4 Front-access 2.5" SSD/HDD Tray, 1 CFAST Socket
- 3 SIM Card Socket for 3G/4G/LTE/WiFi/GPRS/UMTS
- 3 PCI/PCIe Slot, 3 Mini PCIe, 4 COM
- 7 USB 3.0, 32 Isolated DIO
- Configurable Ignition Power Control



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Dimensions & Drawing Unit: mm (inch)



Specifications

System		Ethernet	
Processor	Quad Core Intel® Xeon®/Core™ i7/i5/i3 Processor (Kaby Lake-S/Skylake-S)	LAN 1	Intel® I219LM Gigabit LAN supports iAMT 11.0
Chipset	Intel® C236	LAN 2	Intel® I210 Gigabit LAN
BIOS	AMI	Power	
SIO	IT8786E	Power Input	6V to 36V, DC-in
Memory	2 DDR4 2133MHz SO-DIMM, up to 32GB	Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
OS	Windows 10, Windows 8.1, Windows 7, Linux	Ignition Control	16 Mode (Internal)
I/O Interface		Remote Switch	3-pin Terminal Block
Serial	4 COM RS-232/422/485 (ESD 8KV)	Surge Protection	Up to 80V/1ms Transient Power
USB	• 7 USB 3.0 (6 External, 1 Internal) • 2 USB 2.0 (Internal)	Others	
Isolated DIO	32 Isolated DIO : 16 DI, 16 DO	TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
LED	Power, HDD	Watchdog Timer	Reset : 1 to 255 sec./min. per step
SIM Card	3 SIM Card Socket (2 External, 1 Internal)	Smart Management	Wake on LAN, PXE supported
Expansion		HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.
Mini PCIe	3 Mini PCIe Socket : • 2 Full-size for PCIe/USB/External SIM Card • 1 Full-size for PCIe/USB/Internal SIM Card/mSATA	Mechanical	
PCIe	Up to 3 PCIe Slot, by request	Dimensions (WxLxH)	172mm x 330mm x 210mm (6.8" x 13" x 8.3")
PCI	Up to 3 PCI Slot, by request	Weight	RCS-9400F : 3.4 kg (7.5 lb) RCS-9400FR : 4.6 kg (10.1 lb) RCS-9400FH : 4.1 kg (9 lb) RCS-9400FHR : 5.3 kg (11.7 lb)
Graphics		Mounting	Wallmount by mounting bracket
Processor	Intel® HD Graphics 630/530	Environment	
Interface	• DVI-I : Up to 1920 x 1200 @ 60Hz • DVI-D : Up to 1920 x 1200 @ 60Hz • DisplayPort : Up to 4096 x 2304 @ 60Hz	Operating Temp.	35W TDP CPU : • 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 : Core™ i7, i5, i3 : -40°C to 55°C (-40°F to 131°F) 80W TDP CPU : Xeon® E3-1275 v6, E3-1275 v5, E3-1225 v5 : -40°C to 45°C (-40°F to 113°F) -40°C to 85°C (-40°F to 185°F)
Storage		Storage Temp.	5% to 95% Humidity, non-condensing
SATA	4 SATA III (6Gbps) support S/W RAID 0, 1, 5, 10	Humidity	95% at 75°C
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)	Relative Humidity	IEC 60068-2-27, SSD: 50G @ wallmount, Half-sine, 11ms
Storage Device	• 1 CFast Socket (Internal) • 4 2.5" SSD/HDD Tray/Bracket (External/Internal)	Shock	IEC 60068-2-64, SSD: 5Grms, 5Hz to 500Hz, 3 Axis
Audio		Vibration	CE, FCC, EN50155, EN50121-3-2
Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio	EMC	
Audio Interface	1 Mic-in, 1 Line-out		

Order Information

RCS-9430F	• RCS-9400, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 1 PCIe x1, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9430FH	• RCS-9400 w/ 65W CPU, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 1 PCIe x1, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9430FR	• RCS-9400, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 1 PCIe x1, 4 Front-access SSD Tray, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9430FHR	• RCS-9400 w/ 65W CPU, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 1 PCIe x1, 4 Front-access SSD Tray, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9421F	• RCS-9400, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 1 PCI, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9421FH	• RCS-9400 w/ 65W CPU, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 1 PCI, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9421FR	• RCS-9400, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 1 PCI, 4 Front-access SSD Tray, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9421FHR	• RCS-9400 w/ 65W CPU, 2 GigE LAN, 1 PCIe x16, 1 PCIe x4, 1 PCI, 4 Front-access SSD Tray, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9412F	• RCS-9400, 2 GigE LAN, 1 PCIe x16, 2 PCI, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9412FH	• RCS-9400 w/ 65W CPU, 2 GigE LAN, 1 PCIe x16, 2 PCI, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9412FR	• RCS-9400, 2 GigE LAN, 1 PCIe x16, 2 PCI, 4 Front-access SSD Tray, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO
RCS-9412FHR	• RCS-9400 w/ 65W CPU, 2 GigE LAN, 1 PCIe x16, 2 PCI, 4 Front-access SSD Tray, 4 COM, 7 USB 3.0, 3 SIM, Isolated DIO

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
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-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
PWS-480W-WT	• 480W, 24V, 90V AC to 305V AC Power Supply, Wide-Temp, IP65
PWS-600W	• 600W, 24V, 90V AC to 305V AC Power Supply
3G Module	• Mini PCIe 3G/GPS Module with Antenna
4G Module	• Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth	• Mini PCIe WiFi & Bluetooth Module with Antenna
FAN Module	• Fan Module for RCS-9400F Series

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	

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