

RMS-1000

8th Generation Intel® Core™ i7/i5/i3 U-series Processor (Whiskey Lake) 1U Rackmount Fanless System, 8 GigE LAN with 6 X-coded M12, 4 10G USB, 2 Front-access SSD Tray, DC 9V to 48V, -40°C to 70°C Extended Temperature



Features

- 8th Generation Intel® Core™ i7/i5/i3 U-Series Processor (Whiskey Lake)
- DDR4 2400MHz memory, up to 32GB
- Fanless design supports up to -40°C to 70°C extended operating temperature
- 8-port 10/100/1000Base-T GigE LAN with 6 X-coded M12 connections, iAMT 12.0 supported
- 4 10G USB 3.1 Gen 2, 2 COM RS-232/422/485
- 2 Front-access 2.5" SSD/HDD Tray
- SIM Socket for WiFi/4G/3G/LTE/GPRS/UMTS
- Expansion : SATA III, mSATA and Mini PCIe
- 9V to 48V DC Power Input, Ignition Power Control



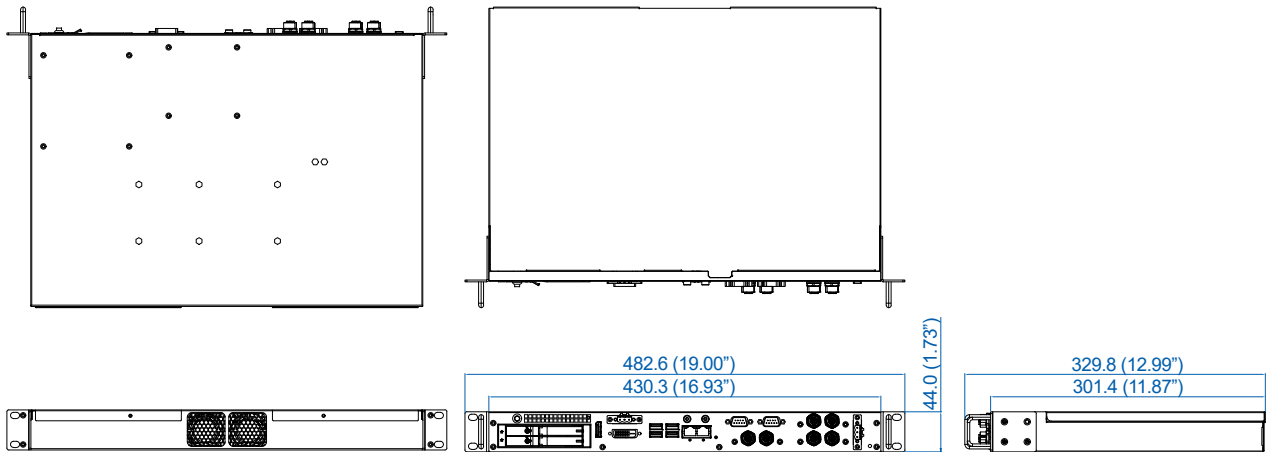
Specifications

System	
Processor	Quad core Intel® Core™ i7-8665UE Processor (Whiskey Lake)
Chipset	Intel® SoC (Cannon Lake)
BIOS	AMI
SIO	IT8786E
Memory	1 DDR4 2400MHz SO-DIMM, up to 32GB
I/O Interface	
Serial	2 COM RS-232/422/485 (ESD 8kV)
USB	4 USB 3.1 Gen 2
Isolated DIO	8 GigE LAN : ▪ 2 10/100/1000 Base-T RJ-45 ▪ 6 10/100/1000 Base-T X-coded M12
LED	Power, HDD
Expansion	
Mini PCIe	2 Mini PCIe Socket, by request : ▪ 1 Full-Size for PCIe/USB/Internal SIM Card ▪ 1 Full-Size for PCIe/USB/Optional mSATA (Optional)
Graphics	
Graphics Processor	Intel® UHD Graphics 620
Interface	Dual display : ▪ DVI-D : Up to 1920 x 1200 @60Hz ▪ DisplayPort : Up to 4096 x 2304 @60Hz
Storage	
SATA	2 Front-access 2.5" SSD/HDD Tray
mSATA	1 SATA III (Mini PCIe Type, 6Gbps)
Audio	
Audio Codec	Realtek ALC888S-VD, 7.1 Channel HD Audio
Audio Interface	1 Mic-in, 1 Line-out
Ethernet	
LAN 1	Intel® 1219LM GigE LAN supports iAMT 12.0, RJ45 Type
LAN 2	Intel® I210 GigE LAN, RJ45 Type
LAN 3 to LAN 8	Intel® I210 GigE LAN, M12 X-coded Type

Power	
Power Input	9V to 48V, 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
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, Linux
Mechanical	
Dimensions	482.6mm x 301.4mm x 44.0mm (19.00" x 11.87" x 1.73")
Weight	4.0 kg (8.8 lb)
Mounting	Rackmount
Environment	
Operating Temperature	-40°C to 70°C (-40°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% at 70°C
Shock	▪ IEC 60068-2-27, IEC 61373 ▪ SSD : 10G, Half-sine, 11ms
Vibration	▪ IEC 60068-2-64, IEC 61373 ▪ SSD : 1Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC, EN50155, EN50121-3-2

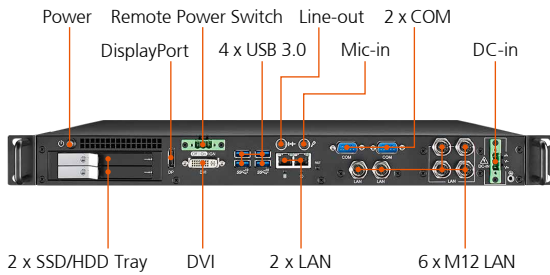
Dimensions

Unit : mm/ inch



Front I/O

Rear I/O



Order Information

RMS-1000-8665UE	RMS-1000, onboard Intel® Core™ i7-8665UE, 8 GigE LAN w/6 X-coded M12, 4 10G USB 3.1, 9V-48V DC-in
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Accessories

DDR4 32G	Certified DDR4 32GB 2666MHz RAM
DDR4 16G	Certified DDR4 16GB 2666/2400/2133 MHz RAM
DDR4 8G	Certified DDR4 8GB 2666/2400/2133 MHz RAM
DDR4 4G	Certified DDR4 4GB 2666/2400/2133 MHz 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 Adaptor with 3-pin Terminal Block, Wide Temperature -30°C to +70°C
4G Module	Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth	WiFi & Bluetooth Module with Antenna