

RMS-1000/1100

8th Generation Intel® Core™ i7-8665UE Processor (Whiskey Lake)
1U Rackmount Fanless System

- 8th Generation Intel® Core™ i7/i5/i3 U-Series Processor (Whiskey Lake)
- DDR4 2400MHz memory, up to 32GB
- Fanless design, up to -40°C to 70°C operating temperature
- 8-port 10/100/1000Base-T GigE LAN with 6 X-coded M12 connections, iAMT 12.0 supported
- Max 16V to 160V DC Power Input with 4kV DC Isolation, up to 500V Surge Protection
- 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
- Ignition Power Control

ADAS (Advanced Driver Assistance System)



In-vehicle Infotainment



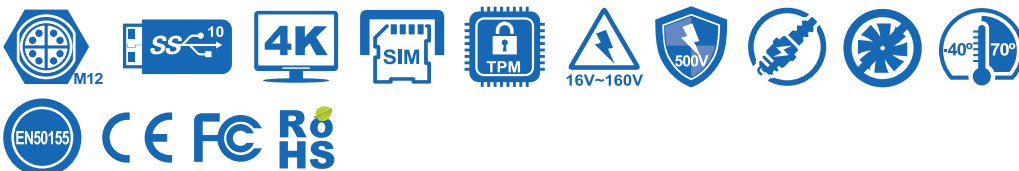
Fleet Management



Traffic Control



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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
OS	Windows 10, Linux

I/O Interface

Serial	2 COM RS-232/422/485 (ESD 8kV)
USB	4 USB 3.1 Gen 2
GigE LAN	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)
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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	Full Size 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® I219LM 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, X-coded M12 Type

Power

Power Input	RMS-1000 : 9V to 48V, DC-in RMS-1100 : 16V to 160V, 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
Isolation	4kV DC (RMS-1100 only)
Surge Protection	0.5kV DC 8/20us Surge (RMS-1100 only)

Others

TPM	Optional Infineon SLB9665 supports TPM 2.0, LPC Interface
Watchdog Timer	Reset : 1 to 255 sec./min. per step
Smart Mgmt.	Wake on LAN, PXE supported
HW Monitor	Monitoring temperature, voltages. Auto throttling control when CPU overheats.

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)

Environment

Operating Temp.	RMS-1000 : -40°C to 70°C (-40°F to 158°F) RMS-1100 : -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	RMS-1000 : 95% at 70°C RMS-1100 : 95% at 55°C
Shock	- IEC 60068-2-27, IEC 61373 - SSD : 50G @ wallmount, Half-sine, 11ms
Vibration	- IEC 60068-2-64, IEC 61373 - SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC, EN50155, EN50121-3-2

Order Information

Model	GigE LAN		SSD Tray	COM	10G USB	SIM	DC-in	Surge Protection
	RJ45	M12						
RMS-1000	2	6	2	2	4	1	9V to 48V	NA
RMS-1100	2	6	2	2	4	1	16V to 160V	500V

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

Dimensions & Drawing

Unit : mm (inch)

