

RCX

2300 PEG

VHub

Workstation-grade Intel® Xeon®/Core™ i7/i5 Processor (Rocket Lake)

AI Computing System with NVIDIA® Tesla®/Quadro®/GeForce®/AMD Radeon™ Graphics

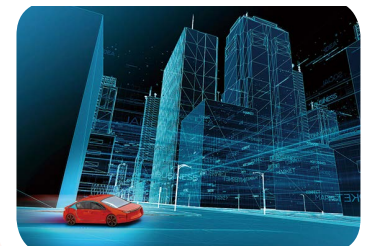


High-Speed AOI



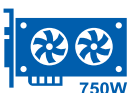
- Workstation-grade Platform : 8-core 11th Gen Intel® Xeon® / Core™ i7/i5 Processor (Rocket Lake-S) running with Intel® W580 chipset, up to 19% CPU productivity improved
- PCIe x16 Gen 4 Slot supports max 750W power for NVIDIA® or AMD 3-slot graphics card
- Expansion : 3 PCIe, 2 Mini PCIe, 1 M.2 Key E, 1 M.2 Key B
- Multiple 5G/WiFi 6/4G/LTE/GPRS/UMTS, TPM 2.0, vPRO
- DC 9V to 55V Power Input, Software Ignition Control
- Optional VHub AIoT Solution Service supports OpenVINO based AI accelerator and advanced Edge AI applications

Rolling Stock



3D Mapping

intel partner
Gold



Vecow

Specifications

System

| | |
|-----------|---|
| Processor | 11th Gen Intel® Xeon®/Core™ i7/i5 Processor (Rocket Lake-S) |
| Chipset | Intel® W580 |
| BIOS | AMI |
| SIO | IT8786E |
| Memory | 4 DDR4 2933MHz SO-DIMM, up to 128GB (ECC/Non-ECC) |
| OS | Windows 10, Linux |

I/O Interface

| | |
|--------------|---|
| Serial | 4 COM RS-232/422/485 |
| USB | - 6 USB 3.2 Gen2 (External) - 1 USB 2.0 (Internal) |
| Isolated DIO | 32 Isolated DIO : 16 DI, 16 DO |
| LED | HDD, Power |
| SIM Card | 3 External SIM Card Socket |

Expansion

| | |
|-----------|--|
| Mini PCIe | 2 Mini PCIe sockets for PCIe/USB/SIM Card/Optional mSATA |
| PCIe | 3 PCIe Slot : - 1 PCIe x16 slot with PCIe Gen 4 signal - 2 PCIe x16 slot with PCIe Gen 3 x4 signal |
| M.2 | - 1 M.2 Key B Socket (3042/3052/2280) - 1 M.2 Key E Socket (2230) |

Graphics

| | |
|--------------------|---|
| Graphics Processor | Intel® UHD Graphics P750/750 supports Intel® Iris® X ^e Graphics architecture |
| Interface | Up to 7 independent displays : - 3 DisplayPort : Up to 4096 x 2304 @60Hz - By requested Graphics Card |

Storage

| | |
|----------------|--|
| SATA | 4 SATA III (6Gbps) support software RAID 0, 1, 5, 10 |
| M.2 | - 1 M.2 Key M Socket (2280, PCIe Gen 4 x4) - 1 M.2 Key B Socket (2280, PCIe x2, share with expansion) |
| Storage Device | - 4 Front-access 2.5"SSD/HDD Tray - 1 M.2 Key M Socket |

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 |
| LAN 2 | Intel® I225IT 2.5G LAN |

Power

| | |
|------------------|-----------------------------------|
| Power Input | 9V to 55V, DC-in |
| Power Interface | 2-pin Terminal Block : V+, V- |
| Ignition Control | 16-mode Software Ignition Control |
| Remote Switch | 3-pin Terminal Block |

Others

| | |
|----------------|---|
| TPM | 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 | 166.4mm x 208.5mm x 375.0mm (6.55" x 8.21" x 14.76") |
| Weight | RCX-2330R PEG : 5.6 kg (12.37 lb) RCX-2330 PEG : 5.3 kg (11.68 lb) |
| Mounting | Wallmount by mounting bracket |

Environment

| | |
|-------------------|---|
| Operating Temp. | -25°C to 60°C (-13°F to 147°F) |
| Storage Temp. | -25°C to 85°C (-13°F to 185°F) |
| Humidity | 5% to 95% Humidity, non-condensing |
| Relative Humidity | 95% @60°C |
| Shock/Vibration | - IEC 61373 : 2010 - Railway Applications : Rolling Stock Equipment, Shock and Vibration Tests |
| EMC | CE, FCC, EN50155, EN50121-3-2 |

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Order Information

| Model | Ethernet | | SSD Tray | USB 3.2 Gen 2 | PCIe x16 Gen 4 | PCIe x4 | Isolated DIO | M.2 |
|---------------|----------|----------|----------|---------------|----------------|---------|--------------|-----|
| | 1G LAN | 2.5G LAN | | | | | | |
| RCX-2330R PEG | 1 | 1 | 4 | 6 | 1 | 2 | 32 | 3 |
| RCX-2330 PEG | | | - | | | | | |

CPU List

| Series | Model | Cores | GHz | Turbo | TDP (W) | ECC RAM |
|--------------|-----------|-------|-----|-------|---------|---------|
| Intel® Xeon® | W-1350 | 6 | 3.3 | 5 | 80 | Y |
| | i7-11700 | 8 | 2.5 | 4.9 | 65 | N/A |
| Intel® Core™ | i7-11700T | 8 | 1.4 | 4.6 | 35 | N/A |
| | i5-11500 | 6 | 2.7 | 4.6 | 65 | N/A |
| | i5-11500T | 6 | 1.5 | 3.9 | 35 | N/A |

Optional Software

| | |
|-------------------|----------------------|
| VHub AI Developer | AI Developer Kit |
| VHub ROS | AMR Developer Kit |
| VHub EtherCAT | I/O Control Platform |

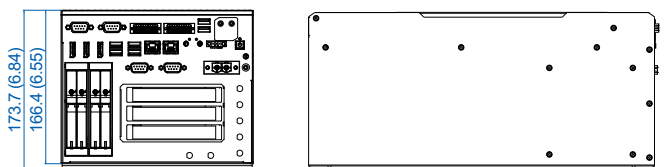
Accessories

| | |
|--------------------|---|
| DDR4 32G | Certified DDR4 32GB 3200MHz RAM |
| DDR4 16G | Certified DDR4 16GB 3200MHz RAM |
| DDR4 8G | Certified DDR4 8GB 3200MHz RAM |
| DDR4 4G | Certified DDR4 4GB 3200MHz RAM |
| 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 |
| PWS-600W-WT | 600W, 24V, 90V AC to 305V AC Power Supply, Wide Temperature -40°C to +70°C |
| PWS-1000W-24V | 1000W, 24V, 90V AC to 264V AC Power Supply |
| M.2 Storage Module | M.2 Key M/Key B PCIe Storage Module |
| 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 |
| 5G Module | 5G Module with Antenna |
| 4G Module | 4G/GPS Module with Antenna |
| WiFi & Bluetooth | WiFi & Bluetooth Module with Antenna |

Dimensions & Drawing

Unit : mm (inch)

RCX-2330R PEG



RCX-2330 PEG

