

# 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

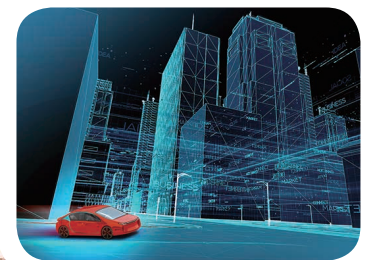


▲ High-Speed AOI



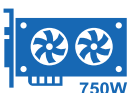
- Workstation-grade Platform : 8-core 11th Gen Intel® Xeon®/ Core™ i7/i5 Processor (Rocket Lake-S) running with Intel® W580 chipset, up to 19% CPU productivity improved
- PCIe x16 Gen 4 Slot supports max 750W power for NVIDIA® or AMD 3-slot graphics card
- DDR4 Memory supports up to 3200MHz, optional with ECC
- 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  
IoT Solutions



# 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 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 x16 signal (Gen4) - 2 PCIe x16 slot with 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 <sup>e</sup> 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 SLB9670 supports TPM 2.0, SPI 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	<b>RCX-2330R PEG</b> : 5.6 kg (12.37 lb) <b>RCX-2330 PEG</b> : 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

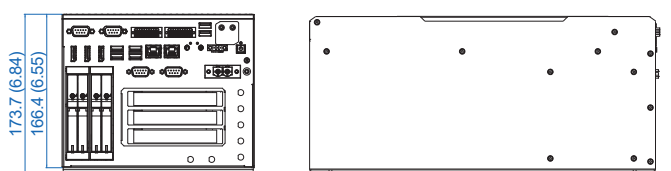
## Accessories

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

