

RCX

2700 PEG

VHub

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

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

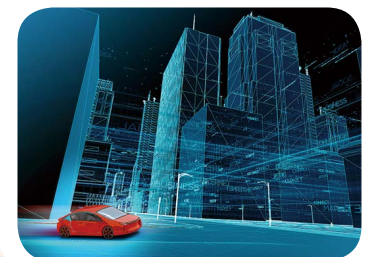


▲ High-Speed AOI



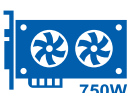
- Workstation-grade Platform : 8-core 11th Gen Intel® Xeon®/Core™ i7/i5 Processor (Rocket Lake-S) running with Intel® W580 chipset, up to 19% CPU productivity improved
- 1500W power budget supports max dual 750W NVIDIA® Tesla®/Quadro®/GeForce® or AMD Radeon™ 3-slot graphics card
- Expansion : 2 PCIe x8 Gen4, 3 PCIe x4, 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	5 PCIe Slot : - 2 PCIe x16 slot with x8 signal (Gen4) - 3 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 ^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	4-pin Terminal Block : V+, V+, 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	253.9mm x 215.8mm x 375.0mm (10.00" x 8.50" x 14.76")
Weight	RCX-2750R PEG : 7.6 kg (16.75 lb) RCX-2750 PEG : 7.3 kg (16.09 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 x8 Gen 4	PCIe x4	Isolated DIO	M.2
	1G LAN	2.5G LAN						
RCX-2750R PEG	1	1	4	6	2	3	32	3
RCX-2750 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
PWS-1500W-24V	1500W, 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)

