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VR-X20
EDGE INTELLIGENCE SYSTEM

VR-X20 Edge Intelligence System features AI-empowered computing platform that supports ALPR, merges video and data from multiple sources at once, and enables multi-tasking.

AI PC Performance for Multi-Tasking

Feature with the Intel® Core™ Ultra 5 processor 125H, delivering faster speed and improved power-saving capability for AI applications.

Military-Grade Durability

MIL-STD-810H compliant. Built to withstand extreme environments, ensuring consistent performance in a wide temperature range from -22°F to 158°F.

Versatile Connectivity Options

Seamless connectivity with dual LAN, Wi-Fi 7, GPS (supporting both L1 and L5 bands), and Bluetooth. For enhanced mobility, an optional 4G LTE module is available, enabling data streaming on the go.

Long-Term Reliability

A 3-year warranty ensures continued service support and device longevity. An extended warranty is also available with additional purchase.

Backup Battery

Powerful backup battery keeps you fully functional in case of vehicle collision or dead battery.

Specifications

VR-X20
Edge Intelligence System

Operating System
Windows 11 IoT Enterprise

CPU
Intel® Core™ Ultra 5 Processor 125H
Max. 4.5GHz with Intel® Turbo Boost Technology
- 18MB Intel® Smart Cache

Memory & Storage
8GB DDR5
Optional: 16GB / 32GB DDR5

1st storage: 256GB PCIe NVMe SSD
Optional: 512GB / 1TB / 2TB PCIe NVMe SSD

2nd storage: 256GB PCIe NVMe SSD
Optional: 512GB / 1TB / 2TB PCIe NVMe SSD

GPU
Intel® Arc™ Graphics

NPU
Intel® AI Boost

I/O Interface
PoE (Power Over Ethernet, PSE) x 6
LAN (RJ45, 2.5Gbps) x 1
LAN (RJ45, 1Gbps) x 1
Audio Jacks (RJ45) x 2
Serial port (9-pin; D-sub) x1
Audio in/out combo x 1
DC in Jack (Power & Ignition) x 1
USB 2.0 Type-A x 1
USB 3.1 Gen 2 Type-A x 2
USB 4 Gen2x2 Type-C x 1
GPIO Ports (Input x 8, Output x 4, 12V/1A power output x 2)
GPS SMA x 1
Wi-Fi MiMo RP-SMA x 2
Control unit connector x 1
HDMI x 1
Optional: SIM card slot x 1 [i]
Optional: LTE MiMo SMA x 2

Communications
10/100/1000 BASE-T Ethernet
2.5GBASE-T Ethernet
Intel® Wi-Fi 7 BE202, 802.11be
Bluetooth (v5.4)
Optional: 4G LTE mobile broadband [ii]

Security
TPM 2.0

Power
Li-Ion battery (7.26V, typical 9600mAh; min. 9400mAh)

Ruggedness
MIL-STD-810H compliant

Temperature
Operating: -30°C to 70°C / -22°F to 158°F
Storage: -40°C to 85°C / -40°F to 185°F

Dimensions (W x D x H) & Weight
182 x 68.5 x 179mm (7.16" x 2.69" x 7.04")
2.08kg (4.59lbs)

Warranty
3-year standard limited warranty
Extended plans available.

i   Units with 4G LTE option come with an embedded SIM card slot.
ii The 4G LTE option is certified by the FCC, IC, CE, and RCM.

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Labeled diagram:
- PoE (Power Over Ethernet, PSE)
- Serial port (9-pin; D-sub)
- DC in Jack (Power, Ground & Ignition)
- GPIO Ports (Input x 8, Output x 4, 12V/1A power output x 2)
- Optional: SIM card slot x 1 (on the side)
- LAN (RJ45, 1Gbps)
- LAN (RJ45, 2.5Gbps)
- Audio Jacks (RJ45)
- Control unit connector
- HDMI
- GPS SMA
- Wi-Fi MiMo RP-SMA
- Audio in/out combo
- USB 4 Gen2x2 Type-C
- USB 2.0 Type-A
- Optional: LTE MiMo SMA x 2
- USB 3.1 Gen 2 Type-A