

Surveillance/ Video Analytics



# POC-764VR

Intel® Core™ i3-N305 Fanless Surveillance System with 4x PoE+ and 2x 2.5" SSD Supporting RAID 0/1



## Key Features

- Intel® Alder Lake Core™ i3-N305 processor 15W with 8 E-Cores
- Up to 16GB DDR5-4800 SODIMM
- 4x GbE ports PoE+ and 1x 2.5GbE LAN Port
- 4x USB 3.2 Gen2 ports with screw-lock
- 1x M.2 2280 M key socket & 2x MiniPCIe socket with micro SIM card
- 2x 2.5" SSD support RAID 0/1/JBOD
- -10 °C to 70 °C temperature operation
- 8-35V DC input with built-in ignition power control

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## Introduction

The POC-764VR is Neosys' new ultra-compact surveillance computer platform. Built on the foundation of the POC-700 series, it offers advanced RAID storage and enhanced networking capabilities, making it ideal for surveillance, security, and smart city applications. The system ensures data redundancy, reliability, and seamless connectivity in critical environments.

Featuring four Gigabit PoE+ ports and an ignition function, the POC-764VR can connect up to four IP cameras for both mobile and stationary surveillance applications. Its RJ45 locking mechanism guarantees reliable Ethernet connectivity in dynamic environments. For video recording, it comes with a built-in hardware RAID controller that supports dual 2.5" HDD/SSDs in RAID 0/1 configuration, enhancing data redundancy or providing extensive storage capacity. Additionally, a 2.5 GbE port offers flexible data exchange with backbone infrastructure, while two mini-PCIe sockets support wireless WiFi, LTE/5G, or CAN bus devices.

The POC-764VR is powered by an Intel® Alder Lake Core™ i3-N305 8-core/8-thread processor with 32EUs UHD Graphics, delivering not only significant computing performance but also enabling real-time AI inference through Intel OpenVINO™. Its compact size, PoE+ capabilities, and RAID storage make the POC-764VR an ideal platform for surveillance, public safety monitoring, and asset management applications.

## Specifications

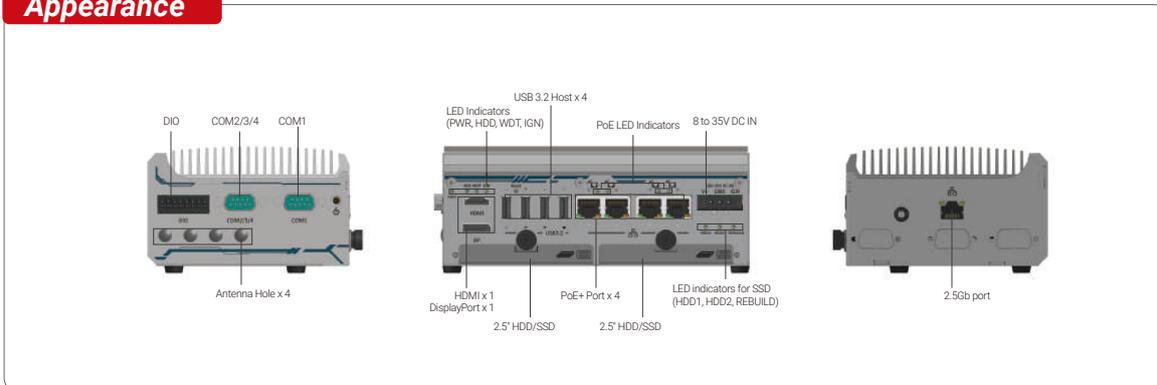
System Core		Expansion Bus	
Processor	Intel® Alder Lake Core™ i3-N305 processor(8C/8T, 1.8/3.8 GHz, 15W TDP)	Mini-PCIe	2x full-size mini PCI Express socket with internal micro SIM socket
Graphics	Integrated Intel® UHD Graphics with 32EUs	Power Supply	
Memory	Up to 16 GB DDR5-4800 SDRAM (one SODIMM socket)	DC Input	1x 3-pin pluggable terminal block for 8 to 35V DC input with built-in ignition power control
TPM	Supports dTPM 2.0	Mechanical	
I/O Interface		Dimension	175.8mm (W) x 115.5mm (D) x 67.9mm (H)
Ethernet port	4x Gb Ethernet ports by Intel® I350-AM4 (port #1-4) 1x 2.5Gb Ethernet port by Intel® I226-IT (port #5)	Weight	1.45 kg
PoE+	IEEE 802.3at PoE+ on port #1- 4	Mounting	DIN-rail mount (standard) or wall-mount (optional)
Native Video Port	1x DP++, Supporting 4096 x 2160 resolution 1x HDMI1.4b, Supporting 3840 x 2160 30Hz	Environmental	
Serial Port	1x Software-programmable RS-232/422/485 ports (COM1) 3x 3-wire RS-232 ports (COM2/3/4) or 1x RS-422/485 port (COM2)	Operating Temperature	With FAN Kit -10°C ~ 70°C <sup>[1][2]</sup> Without FAN Kit -10°C ~ 55°C <sup>[1]</sup>
USB	4x USB 3.2 Gen2 ports with screw-lock	Storage Temperature	-40°C to 85°C
Isolated DIO	4-CH isolated DI and 4-CH isolated DO	Humidity	10% to 90% , non-condensing
Storage Interface		Vibration	MIL-STD-810H, Method 514.8, Category 4
M.2	1x M.2 2280 M key socket (PCIe Gen3 x1) for NVMe SSD storage (supports SATA signal)	Shock	MIL-STD-810H, Method 516.8, Procedure I
SATA SSD	2x internal SATA port for 2.5" SSD installation, supporting hardware RAID 0/1/JBOD (with hot-swappable functionality in RAID1 mode only)	EMC	CE/FCC Class A, according to EN 55032 & EN 55035

<sup>[1]</sup> For sub-zero and over 55°C operating temperature, a wide temperature Solid State Disk (SSD) is required.  
<sup>[2]</sup> The optional fan kit is recommended for operating at ambient temperatures higher than 55°C.

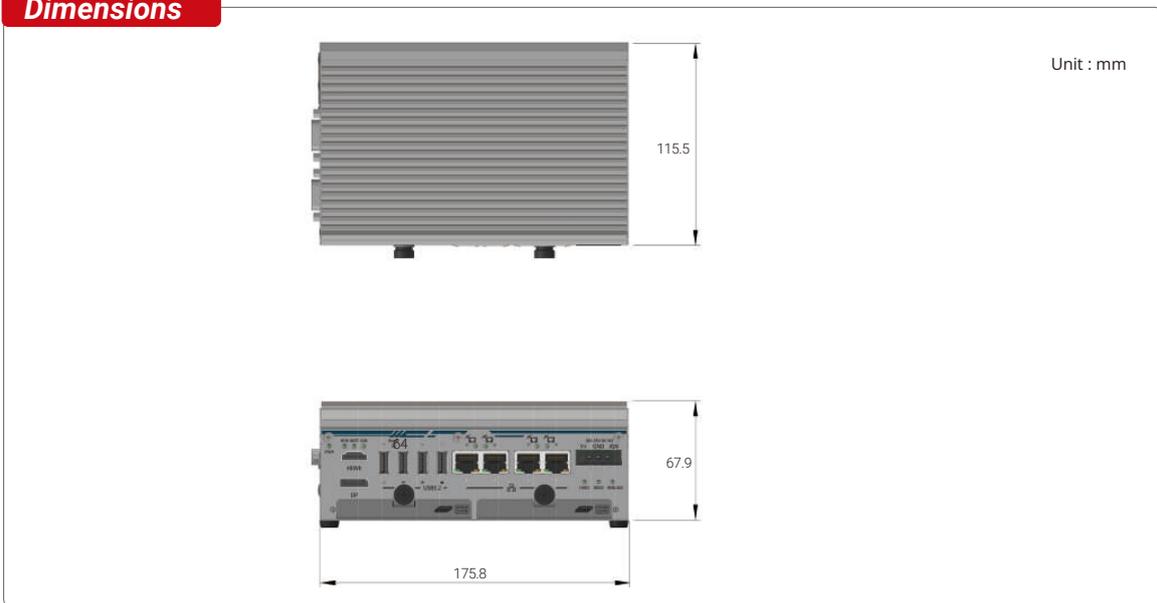


POC-764VR Series

**Appearance**



**Dimensions**



**Ordering Information**

Model No.	Product Description
POC-764VR	Intel® Core™ i3-N305 Fanless Surveillance System with 4x PoE+ and 2x 2.5" SSD Supporting RAID 0/1

**Optional Accessories**

PA-120W-OW	120W AC/DC power adapter with 20V, 6A DC output, cord end terminals for terminal block. Operating temperature : -30 to 70°C
PA-160W-OW	160W AC/DC power adapter 20V/ 8A; 18AWGx4C/ 120cm, cord end terminals for terminal block, operating temperature : -30°C to 70 °C
Wmkit-H-POC764VR	Wall mounting assembly for POC-764VR, horizontal type
Wmkit-V-POC500	Wall mounting assembly for POC-500, POC-700 series, vertical type
AccsyBx-FAN-POC-700	Fan assembly for POC-700 series, 80x80x15 mm

All specifications and photos are subject to change without prior notice

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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