

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.

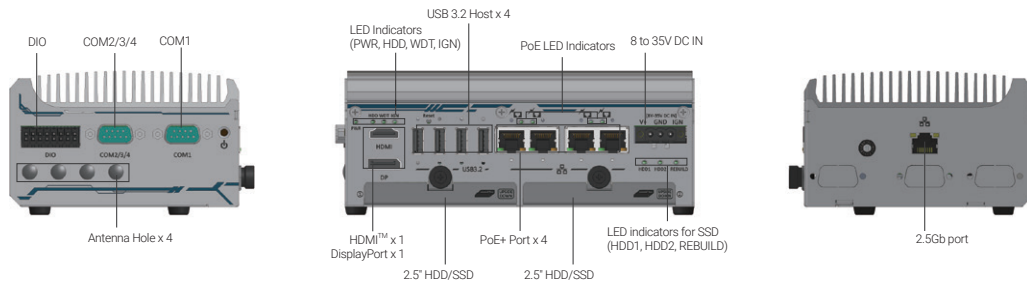
The POC-764VR is powered by an Intel® Alder Lake Core™ i3-N305 8-core/8-thread processor with 32EUs UHD Graphics, delivering not only significant computing performance but also enabling real-time AI inference through Intel OpenVINO™. Its compact size, PoE+ capabilities, and RAID storage make the POC-764VR 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 to 4) 1x 2.5Gb Ethernet port by Intel® I226-IT (port #5) | Weight | 1.45 kg |
| PoE+ | IEEE 802.3at PoE+ on port #1 to 4 | Mounting | DIN-rail mount (standard) or wall-mount (optional) |
| Native Video Port | 1x DP++, Supporting 4096 x 2160 resolution 1x HDMI™ 1.4b, 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 to 70°C ^{[1][2]} Without FAN Kit -10°C to 55°C ^[1] |
| 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 |

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

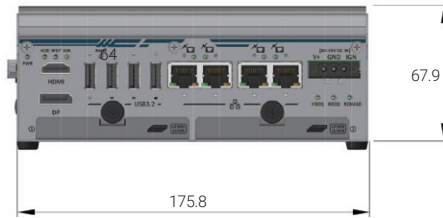
Appearance



Dimensions



Unit : mm



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 |