

POC-700 Series

Intel® Core™ i3-N305 Ultra-Compact Embedded Controller with 4x PoE+, 4x USB 3.2 and MezIO® Interface



CE F©

Key Features

- · Intel® Alder Lake Core™ i3-N305 processor 15W with 8 E-Cores
- · Up to 16GB DDR5-4800 SODIMM
- · -25 °C to 70 °C rugged wide temperature operation
- · 4x GbE ports PoE+ / 4x USB3.2 Gen 2 with screw-lock
- · M.2 2280 M key SATA socket
- Dual DP++ / HDMI 1.4b dual display outputs
- 4-CH isolated DI + 4-CH isolated DO
- · Front I/O access DIN-mounting design
- MezIO[®] compatible

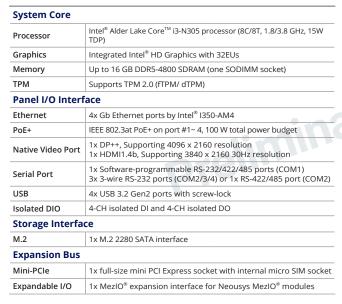
Introduction

POC-700 is Neousys' next-generation ultra-compact embedded controller utilizing the latest Intel Alder Lake i3-N305 processor that is capable of delivering up to 1.3x the CPU performance when compared to previous POC-500 series.

Neousys POC-700 is powered by Intel's Alder Lake i3-N305, an 8-core/ 8-thread processor, coupled with Intel's UHD Graphics with 32EUs to support Intel OpenVINO[™] for AI inference capabilities. The systems adopts DDR5-4800 to offer up to 1.8x the memory bandwidth over DDR4 to boost overall system performance. It also has four USB3.2 Gen2, and four GigE PoE+ ports with screw lock mechanisms to connect and secure industrial cameras for machine vision applications. Display output wise, there are HDMI and DP video outputs to support high-definition display devices. As for connections and expansions, POC-700 features isolated DIO for device monitoring/control, M.2 2280 M key for SATA SSD and a mini-PCle socket for wireless WiFi, LTE/5G or CAN bus device.

Measuring just 64 x 116 x 176mm, the ultra-compact POC-700 can easily fit into restricted space and is a seamless upgrade from POC-500 series with identical footprint. Benefiting from the performance gains of the latest Intel i3-N305 CPU, wide-temperature fanless design, and ample interfaces for industrial cameras and I/Os, POC-700 is perfect for machine vision and smart city applications.

Specifications

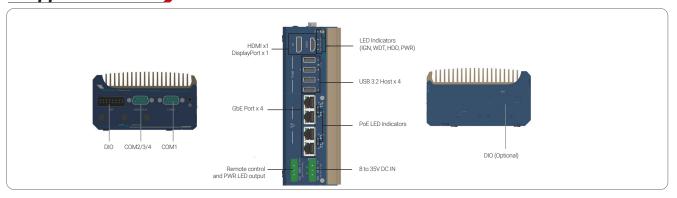


Power Supply		
DC Input	1x 3-pin pluggable terminal block for 8 to 35V DC input	
Remote Ctrl. &LED Output	1x 3-pin pluggable terminal block for remote control and PWR LED output	
Mechanical		
Dimension	64 (W) x 116 (D) x 176 (H) mm	
Weight	/eight 1.2 kg	
Mounting	DIN-rail mount (standard) or wall-mount (optional)	
Environmenta	I	
Operating Temperature	-25°C ~ 70°C	
Storage Temperature	-40°C ~ 85°C	
Humidity	10%~90%, non-condensing	
Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4	
Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II	
Safety	EN62368-1	
EMC	CE/FCC Class A, according to EN 55032 & EN 55035	

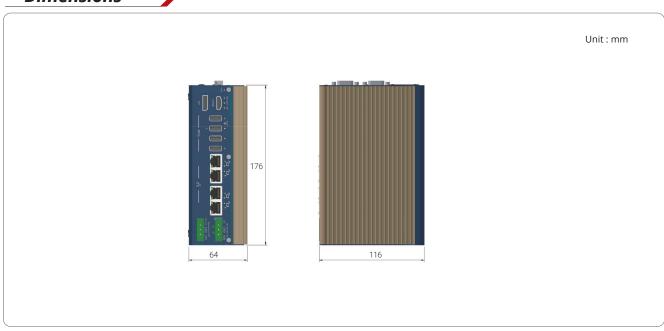
www.neousys-tech.com



Appearance



Dimensions



Ordering Information

Model No.	Product Description
POC-700	Intel® Core™ i3-N305 Ultra-Compact Embedded Controller with 4x PoE+, 4x USB 3.2 and MezIO® Interface

3-N305 Ultra-Compact Embedded Controller with 4x PoE+, 4x USB 3.2 and MezIO® Interface
ssories
60W AC/DC power adapter with 12V, 5A DC output, cord end terminals for terminal block. Operating temperature: -30 to 70 °C
120W AC/DC power adapter with 12V, 10A DC output, cord end terminals for terminal block. Operating temperature: -30 to 60 °C
Wall-mount assembly for POC-700 series, vertical type
Wall-mount assembly for POC-700 series, horizontal type
1x DB9 (Female) to 3x DB9 (Male), length: 15CM
MezIO® module with 4x RS-232/ 422/ 485 ports and 4x RS-232 ports
MezIO® module with 4x RS-232/ 422/ 485 ports and 4x RS-422/ 485 ports
MezIO® module with 8-CH isolated digital input and 8-CH isolated digital output
MezIO® module with 16-CH isolated digital input and 16-CH isolated digital output
MezIO® module with ignition power control function and 1x mini-PCIe socket for in-vehicle usage
MezIO® module with 4x USB 3.1 ports
MezIO® module with SATA port for 2.5" HDD/ SSD
MezIO® module with SATA port for 2.5" HDD/ SSD, 4-CH isolated DI and 4-CH isolated DO