NEOUSYS TECHNOLOGY

POC-400 Series

Intel® Elkhart Lake Atom® x6425E Ultra-compact Fanless Embedded Computer with 2.5GbE & PoE+

🔺 *Key Features*

· Intel® Elkhart Lake Atom® x6425E quad-core 2.0GHz/ 3.0GHz 12W processor
· **Rugged -25 °C to 70 °C fanless operation**
· **2x 2.5GbE PoE+ ports and 1x 2.5GbE port with screw-lock**
· **2x USB 3.1 Gen1 and 2x USB 2.0 ports with screw-lock**
· **M.2 2280 M key SATA interface**
· **Dual DP display outputs supporting 4096 x 2160 resolution**
· **Front I/O access DIN-mounting design**
· **MezIO™ compatible**

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Introduction

POC-400 is an ultra-compact fanless embedded computer for industrial applications. It utilizes the latest Intel® Elkhart Lake platform Atom® x6425E 4-core CPU that can deliver 1.8x CPU and 2x GPU performance improvement, compared to the previous generation.

In addition to the performance boost, POC-400 features an ultra-compact design measuring just 56 x 108 x 153 mm, which can easily fit into restricted spaces. The system comes with a DIN-rail mounting chassis and an abundance of front-access I/O interfaces. Featuring three 2.5GBASE-T Ethernet ports with IEEE 802.3 PoE+ capability, they provide higher data bandwidth for devices such as NBASE-T cameras and is backward-compatible with 1000/100/10 Mbps Ethernet. It also has two 4K DisplayPort, 2x USB3.1 Gen1, 2x USB 2.0 and COM ports for general industrial applications.
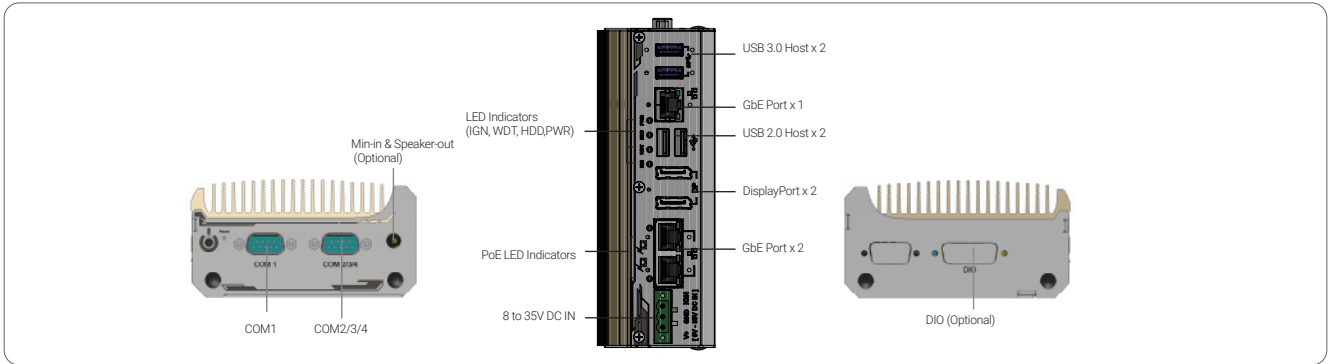
Supporting Neousys' proprietary MezIO™ interface for function expansion, you can add functions such as isolated DIO, RS-232/422/485, ignition control and 4G/ 5G by installing a MezIO™ module. Moreover, POC-400 comes with an internal M.2 E key socket for a Google TPU or an Intel® Movidius VPU module to transform it into a lightweight AI inference platform at the edge.

Combining the new 10nm Atom® CPU, 2.5G Ethernet ports, PoE+ and ultra-compact enclosure with function expansion capabilities, Neousys' POC-400 is a compact and yet versatile embedded computer that can fuel various industrial applications.
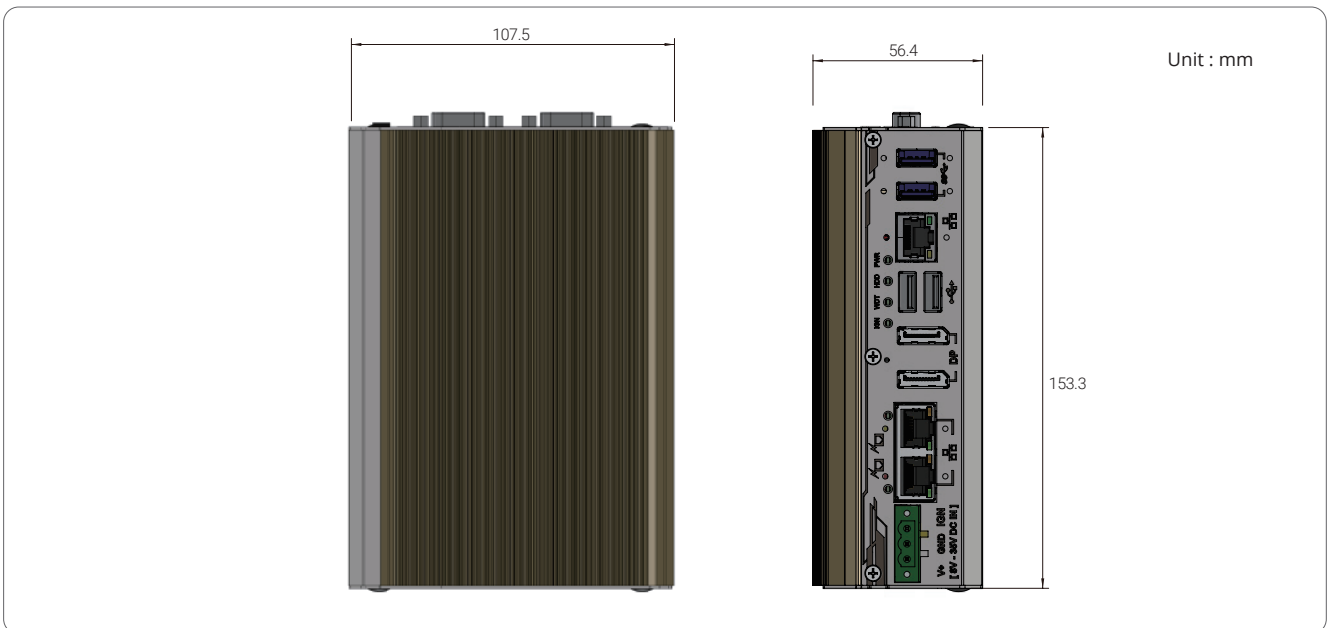
Specifications

System Core

Processor	Intel® Elkhart Lake Atom® x6425E quad-core 2.0GHz/3.0GHz 12W processor
Graphics	Integrated Intel® UHD Graphics
Memory	Up to 32 GB DDR4-3200 SDRAM by one SODIMM socket

Panel I/O Interface

Ethernet	3x 2.5GBASE-T Ethernet ports by Intel® I225 GbE controllers
PoE	Optional IEEE 802.3at PoE+ on port #2 and #3
Video Port	2x DisplayPort connector, supporting 4096 x 2160 resolution @ 60Hz
USB 3.1	2x USB 3.1 Gen1 (5 Gbps) ports
USB 2.0	2x USB 2.0 ports
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)
Audio	Optional 1x 3.5 mm jack for mic-in and speaker-out

Internal Expansion Bus

M.2 E key	1x M.2 2230 E key socket for WiFi, Google TPU or Movidius VPU module
Expandable I/O	1x MezIO™ expansion port for Neousys MezIO™ modules

Storage Interface

M.2 M key	1x M.2 2280 SATA interface

Power Supply

DC Input	1x 3-pin pluggable terminal block for 8 to 35V DC input

Mechanical

Dimension	56 mm (W) x 108 mm (D) x 153 mm (H)
Weight	0.96 kg
Mounting	DIN-rail mount (standard) or Wall-mount (optional)

Environmental

Operating Temperature	-25°C ~ 70°C
Storage Temperature	-40°C ~85°C**
Humidity	10%~90% , non-condensing
Vibration	Operating, MIL-STD-810G, Method 514.7, Category 4
Shock	Operating, MIL-STD-810G, Method 516.7, Procedure I
EMC	CE/FCC Class A, according to EN 55032 & EN 55035

Appearance

- USB 3.0 Host x 2
- GbE Port x 1
- USB 2.0 Host x 2
- DisplayPort x 2
- GbE Port x 2
- 8 to 35V DC IN
- PoE LED Indicators
- LED Indicators (IGN, WDT, HDD,PWR)
- Min-in & Speaker-out (Optional)
- COM1
- COM2/3/4
- DIO (Optional)

Dimensions

107.5

56.4

153.3

Unit : mm

Ordering Information

Model No.	Product Description
POC-400	Intel® Elkhart Lake Atom® x6425E ultra-compact DIN-rail fanless rugged computer with 1x 2.5GbE, 2x 2.5G PoE+ and 2x USB 3.1 Gen1
POC-410	Intel® Elkhart Lake Atom® x6425E ultra-compact DIN-rail fanless rugged computer with 3x 2.5GbE and 2x USB 3.1 Gen1
Optional 1x 3.5 mm jack for mic-in and speaker-out	

Optional Accessories

PA-60W-OW	60W AC/DC power adapter with 12V, 5A DC output, cord end terminals for terminal block. Operating temperature : -30 to 60 °C
Wmkit-V-POC400	Wall-mount assembly for POC-400 series, vertical type
Wmkit-H-POC400	Wall-mount assembly for POC-400 series, horizontal type
Cbl-DB9F-3DB9M-15CM	1x DB9 (Female) to 3x DB9 (Male), length: 15CM

MezIO™ Modules

MezIO™-C180	MezIO™ module with 4x RS-232/ 422/ 485 ports and 4x RS-232 ports
MezIO™-C181	MezIO™ module with 4x RS-232/ 422/ 485 ports and 4x RS-422/ 485 ports
MezIO™-D220	MezIO™ module with 8-CH isolated digital input and 8-CH isolated digital output
MezIO™-D230	MezIO™ module with 16-CH isolated digital input and 16-CH isolated digital output
MezIO™-V20	MezIO™ module with ignition power control function and 1x mini-PCIe socket for in-vehicle usage
MezIO™-U4	MezIO™ module with 4x USB 3.1 ports
MezIO™-R11	MezIO™ module with SATA port for 2.5" HDD/ SSD
MezIO™-R12	MezIO™ module with SATA port for 2.5" HDD/ SSD, 4-CH isolated DI and 4-CH isolated DO