POC-300 Series

Intel® Apollo Lake Pentium® N4200 and Atom™ E3950 Ultra-Compact DIN-Rail Controller with GbE, PoE and USB 3.0

◢ Key Features

· Intel® Apollo Lake Pentium® N4200 and Atom™ E3950 quad-core processor
· Rugged, -25 °C to 70 °C fanless operation
· One GbE port and two Gigabit PoE+ ports
· Two USB 3.0 and two USB 2.0 ports
· DVI + VGA dual display outputs
· Front-accessible I/O and DIN-rail mounting design
· MezIO™ interface compatible

CE FC

Introduction

Experiencing the giant leaping of performance on our Intel® Apollo Lake Pentium® and Atom™ platform! POC-300 series possesses latest Pentium® N4200 and Atom™ x7-E3950 quad-core processor, which offers 1.5 times of CPU performance and 3 times of GPU performance compared to previous generation Atom™ E3845 CPU.

POC-300 series has ingenious mechanical design combining ultra compactness and DIN-rail mounting chassis with front-accessible I/O. It comprises a complete computer system, including GbE, USB 3.0/2,0, COM ports and mSATA storage, in a compact 5.6 x 15 x 11 cm footprint. IEEE 802.3at PoE+ function is available on its 2 of 3 GbE ports to power cameras for machine vision or surveillance applications. POC-300 series also features Neousys' MezIO™ interface for easy function expansion via versatile MezIO™ modules.

The heritage of Neousys' proven fanless design makes POC-300 series extremely reliable in harsh environments. With its rich I/O, advanced CPU and compact size, POC-300 is a compelling fanless controller beneficial for various industrial applications.

Specifications

	POC-300	POC-310	POC-320	POC-330
System Core				
Processor	Intel® Atom™ E3950 1.6/2.0 GHz quad-core processor		Intel® Pentium® N4200 1.1/2.5 GHz quad-core processor	
Graphics	Integrated Intel® HD Graphics 505			
Memory	1x SODIMM socket for DDR3L-1866, up to 8GB			
Panel I/O Interface				
Ethernet	3x Gigabit Ethernet ports by Intel® I210 GbE controller			
PoE	IEEE 802.3at PoE+ on port #2 and #3	-	IEEE 802.3at PoE+ on port #2 and #3	-
Video Port	VGA and DVI dual display outputs via DVI-I connector			
USB	2x USB 3.0 ports and 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	1x Mic-in and 1x Speaker-out			
Internal I/O Interface				
Mini-PCIe	1x full-size mini PCI Express slot with USIM socket			
Expandable I/O	1x MezIO™ expansion interface for Neousys MezIO™ modules			
Storage Interface				
mSATA	1x half-size mSATA port			
Power Supply				
DC Input	1x 3-pin pluggable terminal block for 8~35 VDC DC input			
Mechanical				
Dimension	56 mm (W) x 108 mm (H) x 153 mm (D)			
Weight	0.96 kg (incl. CPU, memory and HDD)			
Mounting	DIN-rail mount (standard) or Wall-mount (optional)			

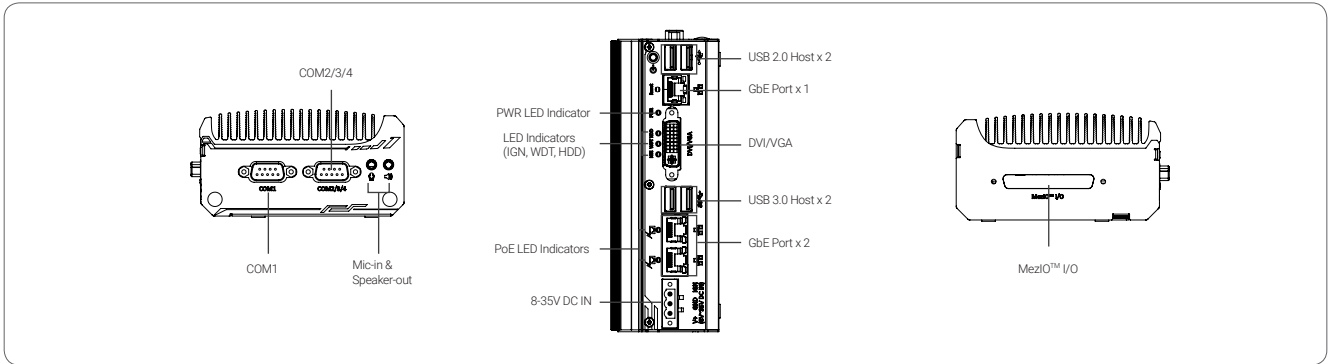|	POC-300	POC-310	POC-320	POC-330
Environmental				
Operating Temperature	-25°C ~ 70°C with SSD, 100% CPU loading */** -10°C ~ 50°C with HDD, 100% CPU loading */**			
Storage Temperature	-40°C ~85°C**			
Humidity	10%~90% , non-condensing			
Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)			
Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)			
EMC	CE/FCC Class A, according to EN55022, EN55024 & EN55032			

* The 100% CPU/GPU loading for high temperature test is applied using Passmark® BurnInTest™ v8.0. For detail testing criteria, please contact Neousys Technology
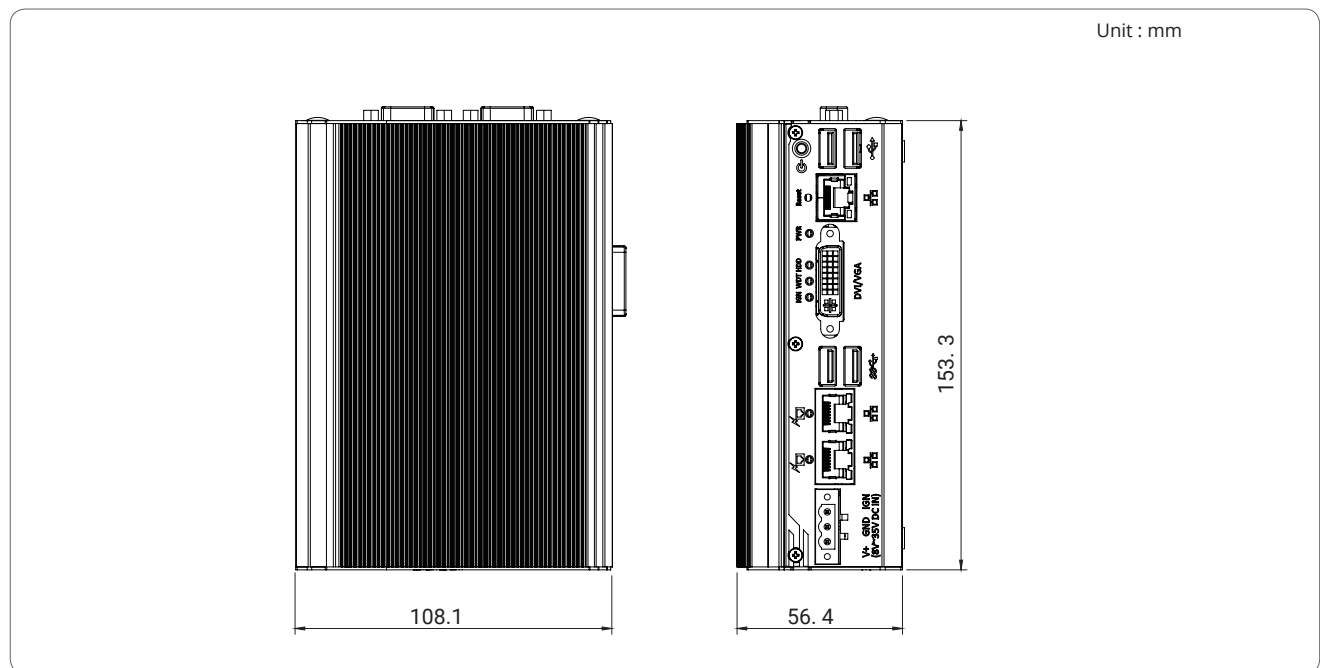*** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.*

▲ POC-300 with MezIO™ - R11 and 2.5" HDD

Appearance

- COM2/3/4
- COM1
- Mic-in & Speaker-out
- PWR LED Indicator
- LED Indicators (IGN, WDT, HDD)
- PoE LED Indicators
- 8-35V DC IN
- USB 2.0 Host x 2
- GbE Port x 1
- DVI/VGA
- USB 3.0 Host x 2
- GbE Port x 2
- MezIO™ I/O

Dimensions

Unit : mm

108.1   56. 4   153. 3

Ordering Information

Model No.	Product Description
POC-300	Intel® Apollo Lake Atom™ E3950 Ultra-Compact DIN-Rail Controller with 1xGbE, 2x PoE+ and 2x USB 3.0
POC-310	Intel® Apollo Lake Atom™ E3950 Ultra-Compact DIN-Rail Controller with 3xGbE and 2x USB 3.0
POC-320	Intel® Apollo Lake Pentium® N4200 Ultra-Compact DIN-Rail Controller with 1xGbE, 2x PoE+ and 2x USB 3.0
POC-330	Intel® Apollo Lake Pentium® N4200 Ultra-Compact DIN-Rail Controller with 3xGbE and 2x USB 3.0

Optional Accessories

12V, 60W AC/DC power adapter

Wall-mounting bracket

1-to-3 RS-232 ports cable

MezIO™ Modules

MezIO™-C180	MezIO™ module with 4x RS-232/422/485 and 4x RS-232 ports
MezIO™-C181	MezIO™ module with 4x RS-232/422/485and 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 dig ital input and 16-CH isolated digital output
MezIO™-V20	MezIO™ module with ignition control and 1x mini-PCIe socket for in-vehicle usage
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
MezIO™-U4-30	MezIO™ module with 4 x USB 3.0 ports

* For Windows 10 IoT with other language packages, MOQ is required. Please contact Neousys for further information

Quick Ordering Model

Pre-installed MezIO Controller	MezIO-R11	MezIO-R12
POC-300	POC-301	POC-302
POC-310	POC-311	POC-312
POC-320	POC-321	POC-322
POC-330	POC-331	POC-332

NEOUSYS TECHNOLOGY