

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

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

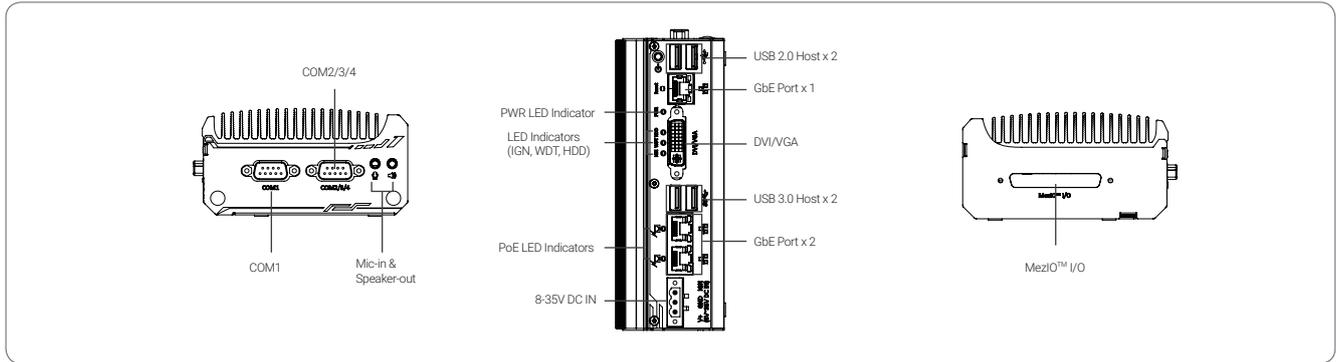
	POC-300	POC-310	POC-320	POC-330
System Core				
Processor	Intel® Atom™ E3950 1.6/2.0 GHz quad-core processor		Intel® Pentium® N4200 1.1/2.5 GHz quad-core processor	
Graphics	Integrated Intel® HD Graphics 505			
Memory	1x SODIMM socket for DDR3L-1866, up to 8GB			
Panel I/O Interface				
Ethernet	3x Gigabit 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/HDMI 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			

	POC-300	POC-310	POC-320	POC-330
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			
Mounting	DIN-rail mount (standard) or Wall-mount (optional)			
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 EN 55022 & EN 55024			

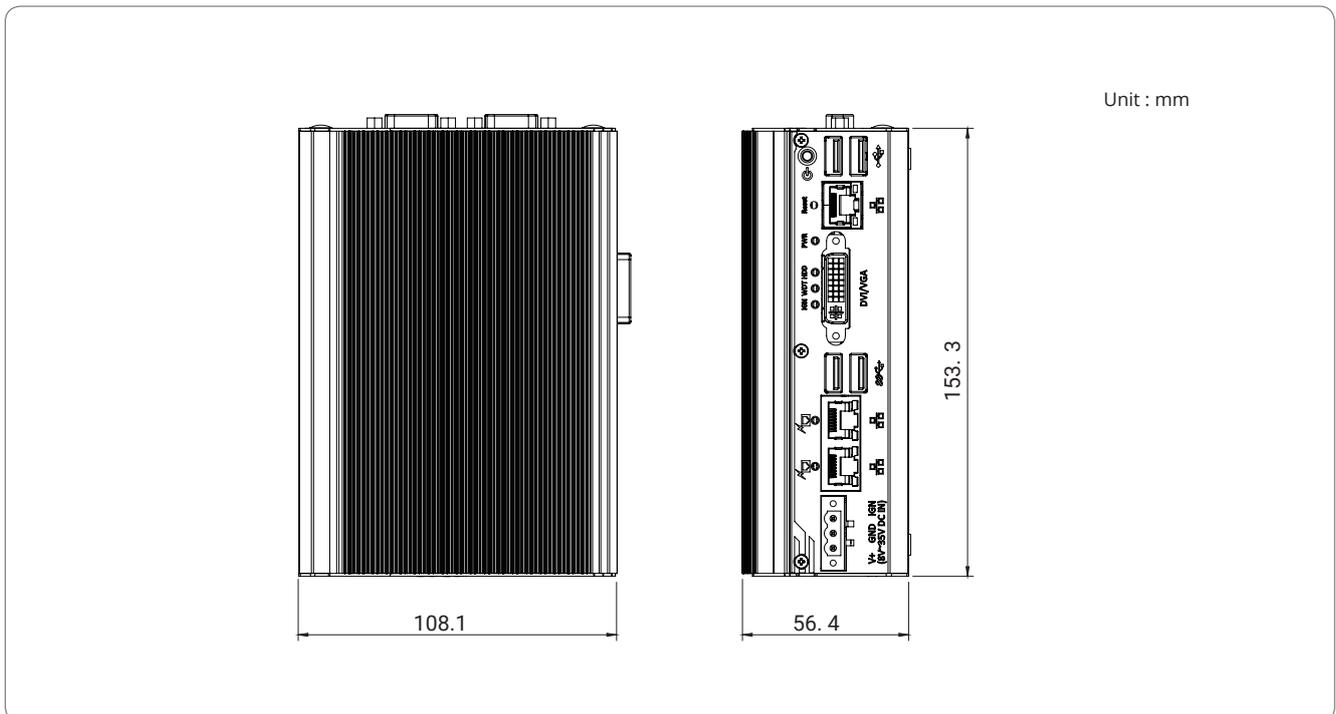
* The 100% CPU/GPU loading for high temperature test is applied using Passmark® BurnInTest™ v8.0. For detail testing criteria, please contact Neousys Technology

** For sub-zero operating temperature, a wide temperature HDD drive or Solid State Disk (SSD) is required.

Appearance



Dimensions



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

- 64GB mSATA mini SSD with pre-installed Windows 10 IoT English version*
- 128GB mSATA mini SSD with pre-installed Windows 10 IoT English version*
- 12V, 60W AC/DC power adapter
- Wall-mounting bracket

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

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