POC-300 Series



Intel® Pentium® N4200 & Atom™ E3950 ultra-compact rugged computer

Key Features

- · Intel[®] Apollo Lake Pentium[®] N4200 and Atom™ E3950 quad-core processor
- · Fanless, rugged and wide temperature operation (-25 °C to 70 °C)
- · One GbE port and two Gigabit PoE+ ports
- · Two USB3.0 and two USB2.0 ports
- · DVI + VGA dual display outputs
- · Front-accessible I/O
- · DIN-rail mounting design
- · MezlO[™] interface compatible





Introduction

POC-300 series features Pentium® N4200 and Atom™ x7-E3950 quad-core processors, which offers up to 1.5 times of CPU performance and 3 times the GPU performance improvement compared to previous generation Atom™ E3845 CPU.

 $POC-300\ series\ have\ an ingenious\ mechanical\ design\ that\ combines\ DIN-rail\ mounting\ chassis\ with\ front-accessible\ I/O\ in\ an\ ultra-compact\ enclosure.\ They\ have\ rich$ computer-like I/Os such as GbE, USB3.0/ 2,0, COM ports and mSATA storage, in a compact footprint that measures just 5.6 x 15 x 11 cm. IEEE 802.3at PoE+ function is also available on 2 of the 3 GbE ports to power cameras for machine vision or surveillance applications. POC-300 series features Neousys' MezIO™ interface for easy function expansion via versatile MezIO $^{\! \scriptscriptstyle \mathsf{TM}}$ modules.

With Neousys' proven fanless design heritage, the POC-300 series thrive in harsh environments. Featuring rich I/Os, advanced CPU and compact size, POC-300 series are compelling fanless controllers beneficial for various industrial applications.

Specification

	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	Up to 8GB DDR3L-1866 (single SO-DIMM slot)					
Panel I/O Interfa	ce					
Ethernet	3x Gigabit	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	2)	USB3.0 ports and	2x USB2.0 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					
Addio		1x Mic-in and 1x	speaker-out			
Internal I/O Inter	rface	1x Mic-in and 1x	speaker-out			
	1		speaker-out	ket		
Internal I/O Inter	1x full-siz	ze mini PCI Express				
Internal I/O Inter	1x full-siz 1x MezIO [™] expa	ze mini PCI Express	slot with USIM soc			
Internal I/O Inter Mini-PCIe Expandable I/O	1x full-siz 1x MezIO [™] expa	ze mini PCI Express	slot with USIM soc Neousys MezIO™ m			
Internal I/O Internal I/O Internal I/O Internal I/O Internal I/O Expandable I/O Storage Interfac	1x full-siz 1x MezIO [™] expa	ze mini PCI Express nsion interface for	slot with USIM soc Neousys MezIO™ m			
Internal I/O Internal I/O Internal I/O Internal I/O Internal I/O Expandable I/O Storage Interfac	1x full-siz 1x MezIO [™] expa e	ze mini PCI Express nsion interface for 1x half-size m	slot with USIM soc Neousys MezIO™ m	iodules		
Internal I/O Internal I/O Internal I/O Internal I/O Internal I/O Expandable I/O Storage InterfactorsATA Power Supply	1x full-siz 1x MezIO [™] expa e	ze mini PCI Express nsion interface for 1x half-size m	slot with USIM soc Neousys MezlO™ m	iodules		
Internal I/O Inter Mini-PCIe Expandable I/O Storage Interfac mSATA Power Supply DC Input	1x full-siz 1x MezIO [™] expa e 1x 3-pin p	ze mini PCI Express nsion interface for 1x half-size m	slot with USIM soc Neousys MezIO™ m nSATA port	iodules		
Internal I/O Inter Mini-PCIe Expandable I/O Storage Interfac mSATA Power Supply DC Input Mechanical	1x full-siz 1x MezIO [™] expa e 1x 3-pin p	ze mini PCI Express nsion interface for 1x half-size m oluggable terminal b	slot with USIM soc Neousys MezIO™ m nSATA port lock for 8~35V DC inp (D) x 153 mm (H)	iodules		

POC-300	POC-310	POC-320	POC-330	
-25°C ~ 70°C with SSD, 100% CPU loading */** -10°C ~ 50°C with HDD, 100% CPU loading */**				
-40°C ~85°C**				
10%~90%, non-condensing				
Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)				
Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)				
CE/FCC Class A, according to EN 55022, EN 55024 & EN 55032				
	-25°C \ ~50°C \ CO	-25°C ~ 70°C with SSD, 10 ~ 50°C with HDD, 100% CP -40°C ~8 10%–90%, non Operating, 5 Grms, SSD, according to IEI Operating, 50 Grms, Half SSD, according t	-25°C ~ 70°C with SSD, 100% CPU loading */~	

^{*} 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

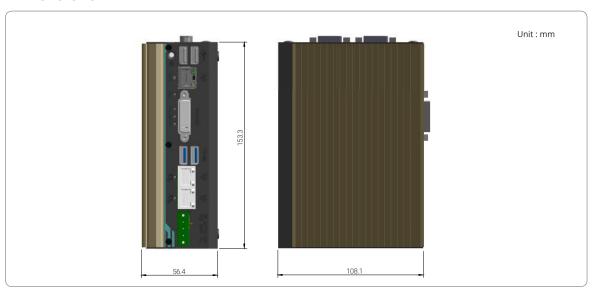
POC-500 Series



Appearance



Dimensions



Ordering Information

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Model No.	Product Description					
POC-300	Intel [®] Apollo Lake Atom™ E3950 ultra-compact DIN-rail controller with 1xGbE, 2x PoE+ and 2x USB3.0	Odering Model Matrix				
POC-310	Intel [®] Apollo Lake Atom™ E3950 ultra-compact DIN-rail Controller with 3xGbE and 2x USB3.0					
POC-320	Intel [®] Apollo Lake Pentium [®] N4200 ultra-compact DIN-rail controller with 1xGbE, 2x PoE+ and 2x USB3.0	Pre-installed MezIO Controller	MezIO-R11	MeziO-R12		
POC-330	Intel [®] Apollo Lake Pentium [®] N4200 ultra-compact DIN-rail controller with 3xGbE and 2x USB3.0	POC-300	POC-301	POC-302		
		POC-310	POC-311	POC-312		
Optional Accessories		POC-320	POC-321	POC-322		
PA-60W-OW	60W AC/DC power adapter with 12V, 5A DC output, cord end terminals for terminal block. Operating temperature : -30 to 60 $^{\circ}\text{C}$	POC-330	POC-331	POC-332		
Wmkit-V-PO	C300 Wall mounting assembly for POC-300 series, vertical type					
Wmkit-H-PO	C300 Wall mounting assembly for POC-300 series, horizontal type	_				
Cbl-DB9F-3D	B9M-15CM 1x DB9 (Female) to 3x DB9 (Male), length: 15CM					
ETHY-100-20	08S Ethernet I/O expansion module with 8 isolated digital inputs and outputs					
ETHY-100-26	O4S Ethernet I/O expansion module with 8 isolated digital inputs and 4 relays output	uts (coming soon)				
MezIO [™] Mod	dules					
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					
MezlO [™] -V20	MezIO™ module with ignition power control function and 1x mini-PCle socket for in-vehicle usage					
MeziO [™] -U4	MezIO [™] module with 4x USB					
MezlO [™] -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					