

# POC-200 Series

Ultra-Compact Atom™ Bay Trail-I Fanless Embedded Controller with PoE and USB3.0



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\*R.O.C Patent No. M492598

## Key Features

- Ultra-compact 15 cm x 10 cm (6" x 4") footprint
- Intel® Atom™ E3845 1.91GHz quad-core processor
- Rugged, -25°C to 70°C fanless operation
- Two 802.3at (25.5W) Gigabit PoE+ ports
- Three USB3.0 ports and one USB2.0 port
- One 2.5" SATA HDD/ SSD accommodation
- Up to two RS-232/ 422/ 485 ports and two RS-232 ports

## Introduction

POC-200 is Neosys' breakthrough ultra-compact controller series. Inheriting the concept of favorable POC-100, POC-200 series features greater computing power and more versatile functions in its 3.5" HDD footprint.

The new Intel® Atom™ Bay Trail processor offers dramatic arithmetic and graphics performance improvement. With Atom™ E3845 quad-core processor, POC-200 can deliver more than 200% performance over previous D525/ D2550 platforms. It also features comprehensive I/O interfaces to make use of the advanced computing power. Two Gigabit Ethernet and three USB3.0 ports are integrated so you can connect GigE/ USB3.0 cameras for vision applications. Its IEEE 802.3at PoE+ option is capable of supplying 25.5W each port to power IP cameras for surveillance applications. POC-200 also features up to four COM ports and digital I/O for general-purpose industrial applications.

Its compact size is another attractive feature of POC-200. The 15 x 10 cm (6"x4") footprint allows installation of POC-200 in confined spaces. While its -25°C to 70°C wide temperature operating capability eliminates the restriction for deployment environment. Neosys provides derivative models with different CPU and I/O configurations so you can always find a POC-200 that is ideal for your application.

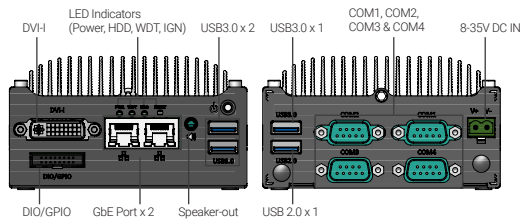
## Specifications

	POC-200	POC-210	POC-212	POC-222
<b>System Core</b>				
Processor	Intel® Atom™ E3845 1.91 GHz quad-core processor		Intel® Atom™ E3825 1.33 GHz dual-core processor	
Graphics	Integrated Intel® HD graphics			
Memory	Up to 8GB DDR3L-1333 (single SO-DIMM slot)		DDR3L-1067, up to 4GB	
<b>Panel I/O Interface</b>				
Ethernet	2x Gigabit Ethernet ports by Intel® I210 GbE controller			
PoE	IEEE 802.3at PoE+(25.5W each GbE port)	-		
Video Port	1x DVI-I connector for both analog RGB and DVI outputs			
Serial Port	2x RS-232/ 422/ 485 (COM1 & COM3) 2x RS-232 (COM2 & COM4)		1x RS-232/ 422/ 485 (COM1) 1x RS-232 (COM2)	
USB	3x USB3.0 ports and 1x USB2.0 port			
Audio	1x speaker-out			
DIO	4-CH isolated DI 4-CH isolated DO	8-CH 5V TTL GPIO (standard) 4-CH isolated DI + 4-CH isolated DO (optional)		
<b>Panel I/O Interface</b>				
Mini-PCIe	1x mini PCI Express slot with USIM socket			
<b>Storage Interface</b>				
SATA	1x internal SATA port for 2.5" HDD/ SSD		1x internal SATA port with easy-swap HDD tray for 2.5" HDD/ SSD	
<b>Power Supply</b>				
DC Input	1x 2-pin pluggable terminal block for built-in 8-35 VDC DC input			
<b>Mechanical</b>				
Dimension (W x D x H)	105mm x 149mm x 58 mm		105mm x 149mm x 54mm	
Weight	1.05 kg			
Mounting	Wall-mount (standard) ; DIN-rail (optional)			
<b>Environmental</b>				
Operating Temp.	-25°C ~ 70°C with SSD, 100% CPU loading **/**** -10°C ~ 50°C with HDD, 100% CPU loading **/****			
Storage Temp.	-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 & EN 55032			

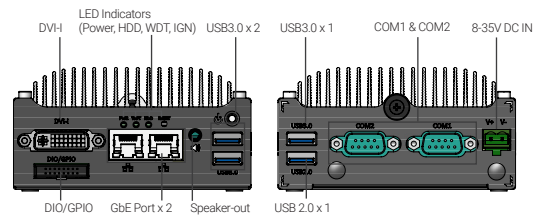
\* 100% CPU loading is applied using Intel® Thermal Analysis Tool. For detail testing criteria, please contact Neosys Technology.

\*\* For sub-zero operating temperature, a wide temperature mSATA SSD module is required.

## Appearance

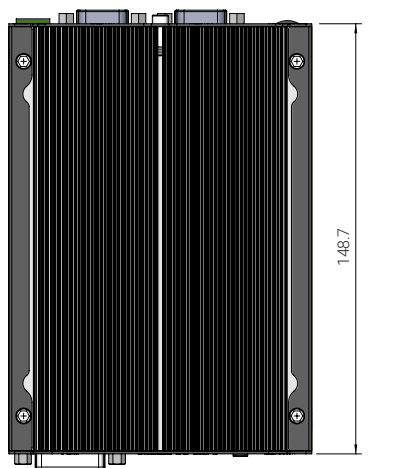


**POC-200/POC-210**

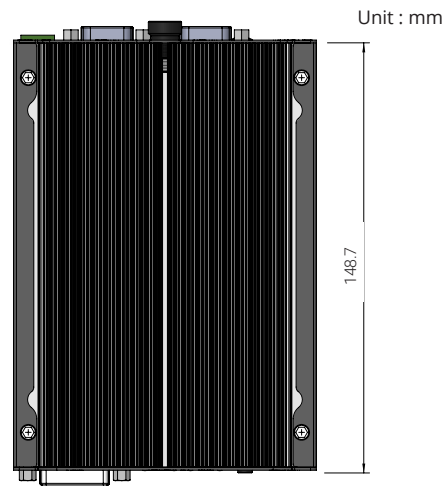


**POC-212/POC-222**

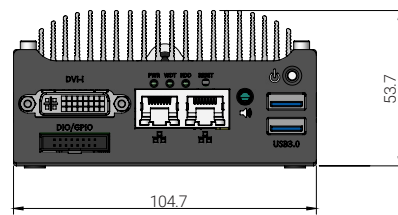
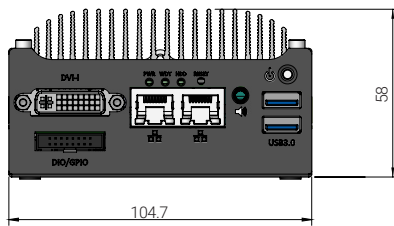
## Dimensions



**POC-200/POC-210**



**POC-212/POC-222**



## Ordering Information

Model No.	Product Description
POC-200	Intel® Atom™ E3845 ultra-compact controller with 2x 802.3at PoE ports, 3x USB3.0 ports and 4x COM ports
POC-210	Intel® Atom™ E3845 ultra-compact controller with 2x GbE ports, 3x USB3.0 ports and 4x COM ports
POC-212	Intel® Atom™ E3845 ultra-compact controller with 2x GbE ports, 3x USB3.0 ports and 2x COM ports
POC-222	Intel® Atom™ E3825 ultra-compact controller with 2x GbE ports, 3x USB3.0 ports and 2x COM ports

## Optional Accessories

DINRAIL-P	DIN-rail mounting assembly for POC- 200 series
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
ETHY-100-2008S	Ethernet I/O expansion module with 8 isolated digital inputs and outputs
ETHY-100-2604S	Ethernet I/O expansion module with 8 isolated digital inputs and 4 relays outputs (coming soon)