POC-200 Series

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

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**

CE FC

R.O.C Patent No. M492598

Introduction

POC-200 is Neousys' 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. Neousys 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
System Core				
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
Panel I/O Interface				
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-CHisolated DO	8-CH 5V TTL GPIO (Standard) 4-CH isolated DI + 4-CH isolated DO (Optional)		
Panel I/O Interface				
Mini-PCIe	1x mini PCI Express slot with USIM socket			

	POC-200	POC-210	POC-212	POC-222
Storage Interface				
SATA	1x internal SATA port for 2.5" HDD/ SSD		1x internal SATA port with easy-swap HDD tray for 2.5" HDD/ SSD	
Power Supply				
DC Input	1x 2-pin pluggable terminal block for Built-in 8~35 VDC DC input			
Mechanical				
Dimension (W x D x H)	105mm x 149mm x 58 mm		105mm x 149mm x 54mm	
Weight	1.05 kg (incl. CPU, memory and HDD)			
Mounting	Wall-mount (standard) ; DIN-rail mount (optional)			
Environmental				
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 Neousys Technology.
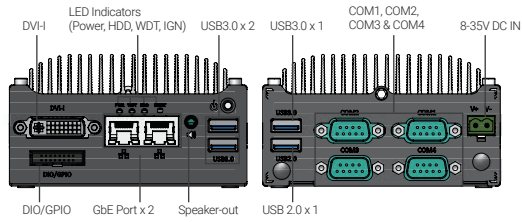** For sub-zero operating temperature, a wide temperature mSATA SSD module is required.
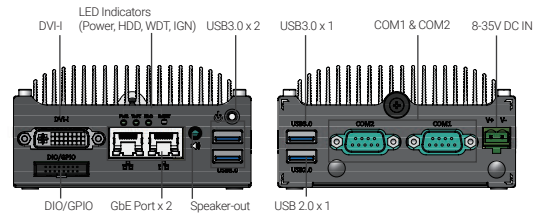
ICP Electronics Australia Pty Ltd

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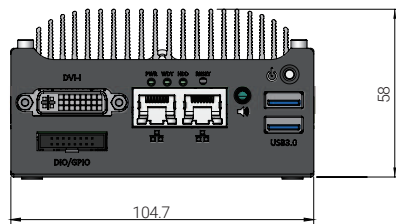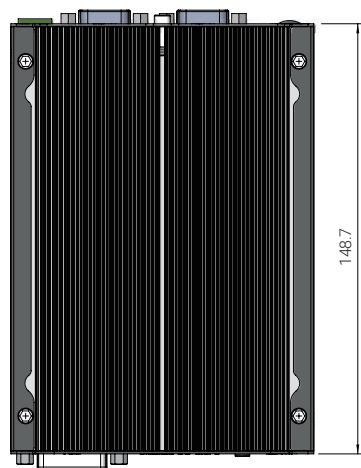sales@icp-australia.com.au
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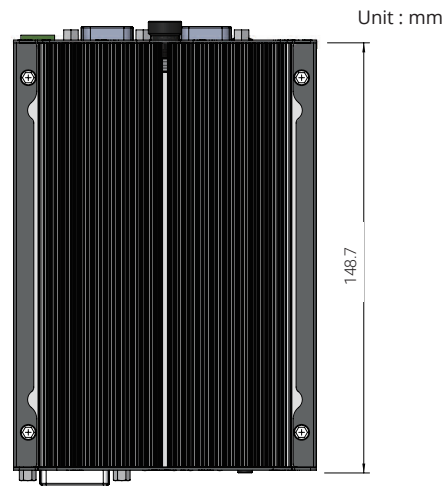www.icp-australia.com.au

Appearance

POC-200/POC-210
DVI-I
LED Indicators (Power, HDD, WDT, IGN)
USB3.0 x 2
USB3.0 x 1
COM1, COM2, COM3 & COM4
8-35V DC IN
DIO/GPIO
GbE Port x 2
Speaker-out
USB 2.0 x 1

POC-212/POC-222
DVI-I
LED Indicators (Power, HDD, WDT, IGN)
USB3.0 x 2
USB3.0 x 1
COM1 & COM2
8-35V DC IN
DIO/GPIO
GbE Port x 2
Speaker-out
USB 2.0 x 1

Dimensions

Unit : mm

POC-200/POC-210 — 148.7, 104.7, 58

POC-212/POC-222 — 148.7, 104.7, 53.7
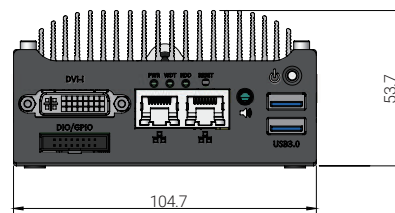
Ordering Information

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