

# POC-120 Series

## Ultra-compact Atom™ Bay Trail-I Fanless General-Purpose Embedded Controller



### Features

- Low-profile, Ultra-compact 15 cm x 10 cm x 3.4 cm footprint
- Intel® Atom™ E3826 1.46GHz dual-core processor
- Rugged, -25°C to 70°C fanless operation
- Two GigE ports and three USB ports
- One RS-232/422/485 port and one RS-232 port
- I/O expansion interface for ODM projects

### Introduction

Introducing the latest member of Neosys' ultra-compact POC family! POC-120 is a low-cost, entry-level embedded controller with yet more compact dimension. It further reduces its height to 3.4 cm to have a very low-profile chassis for restricted space.

POC-120 incorporates Intel® Atom™ E3826 dual-core processor to deliver adequate computing performance. It provides general I/O, such as GigE ports, COM ports and USB3/USB2 ports, for most embedded applications. Instead traditional HDD, POC-120 supports mSATA SSD to ensure reliable disk access in harsh environments.

POC-120 reserves internally a high-speed interface for I/O expansion. By customizing a mezzanine board, you can have versatile I/O functions. This makes POC-120 not only an ultra-compact controller, but also a tailor-made embedded system for your specific application. Please contact Neosys for POC-120 OEM/ODM projects

### Specifications

System Core		Mechanical	
Processor	Intel® Atom™ E3826 1.46 GHz dual-core processor	Dimension	149mm (D) x 105 mm (W) x 34mm (H)
Graphics	Integrated Intel® HD Graphics	Weight	0.9 kg
Memory	1x SODIMM socket for DDR3L-1067, up to 8GB	Mounting	Wall-mounting (standard) or DIN-Rail mounting (optional)
Panel I/O Interface		Environmental	
Ethernet	2x Gigabit Ethernet ports by Intel® I210 GbE controller	Operating Temperature	-25°C ~ 70°C with SSD, 100% CPU loading <sup>*/**</sup>
Video Port	1x VGA connector for both analog RGB output, supporting 2560x1600 resolution	Storage Temperature	-40°C ~ 85°C
Serial Port	1x RS-232/422/485 (COM1) 1x RS-232 (COM2)	Humidity	10%~90% , non-condensing
USB	1x USB 3.0 port and 2x USB 2.0 ports	Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Audio	1x Speaker-out	Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
Storage Interface		EMC	CE/FCC Class A, according to EN 55022 & EN 55024
mSATA	1x full-size mSATA socket	<i>* 100% CPU loading is applied using Intel® Thermal Analysis Tool. For detail testing criteria, please contact Neosys Technology.</i>	
Power Supply		<i>** For sub-zero operating temperature, a wide temperature mSATA SSD module is required.</i>	
DC Input	Built-in 8~35V DC input		
Input Connector	2-pin spring-clamp terminal block for DC input		

### Order Information

#### POC-120

Intel® Atom™ E3826 ultra-compact controller with 2x GbE ports, 3x USB and 2x COM ports

#### Option of DIN-rail mounting kit

#### 60W AC/DC power adapter with 12V, 5A DC output

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