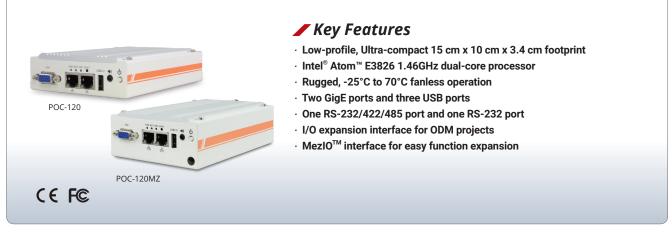
POC-120 Series

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



Introduction

Introducing the latest member of Neousys' 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-120MZ, the new member of POC-120 series, further incorporates Neousys' MezIO[™] interface for I/O expansion. By customizing a mezzanine board, you can have versatile I/O functions and make POC-120MZ not only an ordinary ultra-compact controller, but also a tailor-made embedded system for your specific application.

Specifications

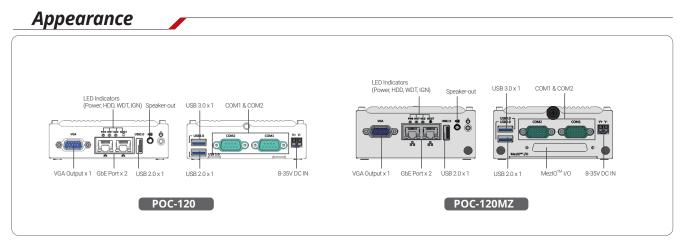
System Core		Power Supply	
Processor	Intel [®] Atom™ E3826 1.46 GHz dual-core processor	DC Input	Built-in 8~35V DC input
Graphics	Integrated Intel [®] HD Graphics	Input Connector	2-pin spring-clamp terminal block for DC input
Memory	1x SODIMM socket for DDR3L-1067, up to 8GB	Mechanical	
I/O Interface Ethernet	2x Gigabit Ethernet ports by Intel [®] I210 GbE controller	Dimension	105mm (W) x 149 mm (D) x 34mm (H) (POC-120) 105mm (W) x 149 mm (D) x 46mm (H) (POC-120MZ)
Video Port	1x VGA connector for both analog RGB output, supporting 2560x1600 resolution	Weight	0.9 kg
		Mounting	Wall-mounting (standard) or DIN-Rail mounting (optional)
Serial Port	1x RS-232/422/485 (COM1) 1x RS-232 (COM2)	Environmental	
USB	1x USB 3.0 port and 2x USB 2.0 ports	 Operating Temperature 	-25°C ~ 70°C with SSD, 100% CPU loading */**
Audio	1x Speaker-out	Storage	4000 0500
Storage Interface		Temperature	-40°C ~ 85°C
mSATA	1x full-size mSATA socket	Humidity	10%~90% , non-condensing
Expansion Bus		Vibration	Operating, 5 Grms, 5-500 Hz, 3 Axes (w/ SSD, according to IEC60068-2-64)
Expandable I/O (POC-120MZ only)	1x MezlO™ expansion port for Neousys' MezlO™ modules (POC-120MZ only)	Shock	Operating, 50 Grms, Half-sine 11 ms Duration (w/ SSD, according to IEC60068-2-27)
		5146	

EMC CE/FCC Class A, according to EN 55022 & EN 55024

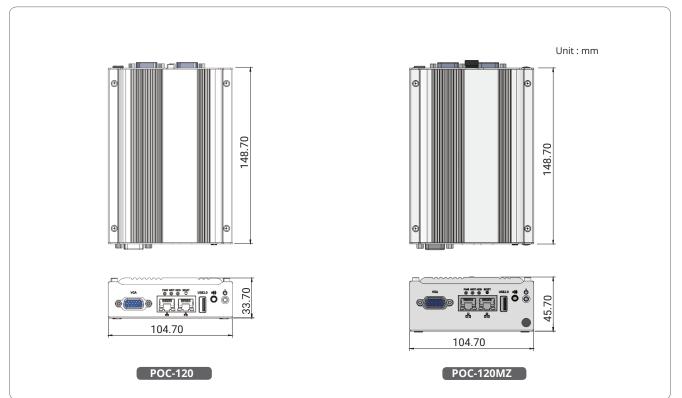
* 100% CPU loading is applied using Intel® Thermal Analysis Tool. For detail testing criteria,

please contact Neousy's Technology. ** For sub-zero operating temperature, a wide temperature mSATA SSD module is required.





Dimensions



Ordering Information

Model No.	Product Description	
POC-120	Intel [®] Atom™ E3826 ultra-compact controller with 2x GbE ports, 3x USB and 2x COM ports	
POC-120MZ	Intel [®] Atom™ E3826 ultra-compact controller with 2x GbE ports, 3x USB, 2x COM ports and MezIO™ accommodation	

Optional Accessories

DIN-Rail mounting kit
60W AC/DC power adapter with 12V, 5A DC output

<i>MezIO™ Modules</i>		
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 dig ital input and 16-CH isolated digital output	
MezIO [™] -R10	MezIO [™] module with 2.5" HDD/SSD accommodation and 1x mini-PCIe socket	

