

POC-40

Intel® Elkhart Lake Atom® x6211E Extreme-compact Embedded Computer



Key Features

- · Intel® Elkhart Lake Atom® x6211E dual-core processor
- · 52 x 89 x 112 mm extremely compact form factor
- · Rugged -25°C to 70°C fanless wide-temperature operation
- · Two GigE ports, two USB 3.1 Gen1 ports and two USB2.0 ports
- · M.2 2280 M key SATA storage interface
- · One M.2 B key socket supporting 5G/4G 3042/3052 modules
- · One M.2 E key socket for WiFi 5/ WiFi 6 modules
- \cdot One COM port with RS-232/ 422/ 485 modes and three RS-232 COM ports

Introduction

POC-40 is an extremely compact fanless computer with dimensions measuring just 52 x 89 x 112 mm. It features Elkhart Lake Atom® processor and is designed for space-restricted applications such as factory data collection, rugged edge computing and mobile gateway.

Utilizing Intel's 10nm process technology, the new Elkhart Lake Atom® x6211E dual-core processor can deliver up to 1.8 times the performance boost over its previous generation. In comparison to POC-200, POC-40 provides 1.9 times computing performance at only half the size. It features generic I/O functions, such as two Gigabit Ethernet ports, four USB 3.1 Gen1/ 2.0 ports, four COM ports and optional isolated digital I/Os for industrial communication and control. In addition, by adopting dedicated M.2 B key and E key slots, the POC-40 can fully harness the bandwidth of 5G and WiFi 6 wireless communications to provide wide-area coverage and real-time data transmission for industrial and mobile gateway applications.

With a similar footprint as a PICO-ITX motherboard, Neousys' POC-40 is perfect for projects that require above par performance in an extremely compact package. Ideal for both edge computing and gateway applications, it is a low power consumption and lightweight fanless computer that offers wide-temperature operation for harsh environments.

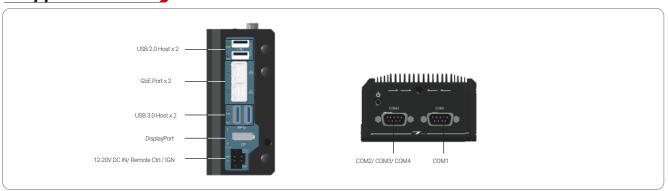
Specifications

System Core		
Processor	Intel® Elkhart Lake Atom® x6211E dual-core 1.3GHz/ 3.0GHz 6W processor	
Graphics	Integrated Intel® UHD Graphics	
Memory	Up to 32 GB DDR4-3200 SDRAM (one SODIMM slot)	
Panel I/O Interface		
Ethernet	2x Gigabit Ethernet ports by Intel® I210 GbE controllers	
USB 3.1	2x USB 3.1 Gen1 (5 Gbps) ports	
USB 2.0	2x USB 2.0 ports	
Video Port	1x DisplayPort connector, supporting 4096 x 2160 resolution @ 60Hz	
Serial Port	1x software-programmable RS-232/ 422/ 485 port (COM1) 3x 3-wire RS-232 ports (COM2/COM3/COM4)	
Isolated Digital I/O	Optional 4-ch isolated digital input and 4-ch isolated digital output	
Storage Interface		
M.2	1x M.2 2280 M key SATA interface	

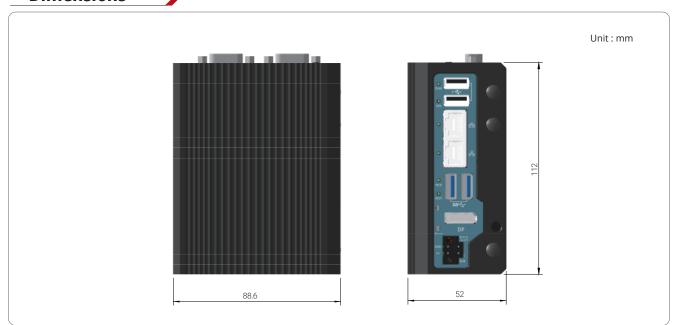
Internal Expan	Internal Expansion Bus		
M.2 B key	1x M.2 3042/ 3052 B key socket with internal SIM socket for 4G/5G module		
M.2 E key	1x M.2 2230 E key socket for WiFi 5/ WiFi 6 module		
Power Supply			
DC Input	1x 4-pin pluggable terminal block for 12-20V DC input		
Remote Ctrl. & LED Output	1x 4-pin pluggable terminal block for remote control		
Mechanical			
Dimension	52 mm (W) x 89 mm (D) x 112 mm (H)		
Weight	0.6 kg		
Mounting	DIN-rail mount (standard) or Wall-mount (optional)		
Environmenta			
Operating Temperature	-25°C ~ 70°C		
Storage Temperature	-40°C ~85°C		
Humidity	10%~90%, non-condensing		
Vibration	Operating, MIL-STD-810G, Method 514.6, Category 4		
Shock	Operating, MIL-STD-810G, Method 516.6, Procedure I, Table 516.6-II		
EMC	CE/FCC Class A, according to EN 55032 & EN 55024		



Appearance



Dimensions



Ordering Information

Model No.	Product Description
POC-40	Intel® Elkhart Lake Atom® x6211E Extreme-compact Embedded Computer

Optional Accessories

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