

POC-40

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



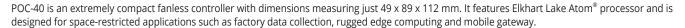
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✓ Key Features



- · Intel® Elkhart Lake Atom® x6211E dual-core processor
- · 49 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
- · One COM port with RS-232/422/485 modes and three RS-232 COM ports

Introduction



Utilizing Intel's 10nm process technology, the new Elkhart Lake Atom® x6211E dual-core processor can deliver up to 1.7 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 controller that offers wide-temperature operation for harsh environments.

Specifications

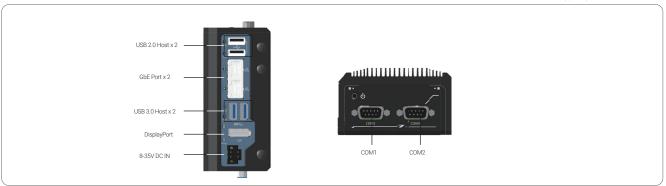
Intel® Elkhart Lake Atom® x6211E dual-core 1.2GHz/ 3.0GHz 6W processor
Integrated Intel [®] UHD Graphics
Up to 32 GB DDR4-3200 SDRAM (one SODIMM slot)
ce
2x Gigabit Ethernet ports by Intel® I210 GbE controllers
2x USB 3.1 Gen1 (5 Gbps) ports
2x USB 2.0 ports
1x DisplayPort connector, supporting 4096 x 2160 resolution @ 60Hz
1x software-programmable RS-232/ 422/ 485 port (COM1) 1x 3-wire RS-232 ports (COM2)
Optional 4-ch isolated digital input and 4-ch isolated digital output
1x 3.5 mm jack for mic-in and speaker-out
e
1x M.2 2280 M key SATA interface

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 8-35VDC DC input	
Remote Ctrl. & LED Output	1x 4-pin pluggable terminal block for remote control and PWR LED output	
Mechanical		
Dimension	49 mm (W) x 89 mm (D) x 112 mm (H)	
Weight	TBC	
Mounting	DIN-rail mount (standard) or Wall-mount (optional)	
Environmental		
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

DIO (Optional)



Dimensions



Ordering Information

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

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