

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
- · One COM port with RS-232/ 422/ 485 modes and three RS-232 COM ports

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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 | |

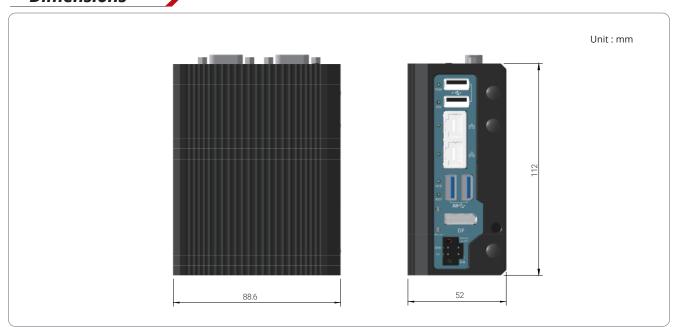
| Internal Expan | sion Bus |
|------------------------------|--|
| M.2 B key | 1x M.2 3042/ 3052 B key socket with internal SIM socket for 4G/ 5G module |
| M.2 E key | 1x M.2 2230 E key socket for WiFi 5/ WiFi 6 module |
| Power Supply | |
| DC Input | 1x 4-pin pluggable terminal block for 12-20V DC 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) |
| 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



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