



## Main Features

- Support Intel® Core™ Ultra 200 Series 5/7/9 (LGA1851) socket type embedded processors, up to 35W
- Intel® Q870 PCH
- 2 x DDR5 6400 CSO DIMM socket unbuffered and non-ECC, up to 96GB
- 1 x DP, 1 x HDMI®, and USB Type-C (DP Alt Mode)
- 2 x COM Port (DB9), supports RS-232/422/485 (2.5KV isolation)
- 2 x COM Port (DB9), supports RS-232 (Varies by model)
- 4 x USB 2.0, Type A, 4 x USB 3.2 Gen 2, 10Gbps, Type-A
- 1 x USB 3.2 Gen 2x2, 20Gbps, Type-C (PD 60W, DP ALT mode)
- 1 x USB 4, 40Gbps, Type-C (5V/3A, 15W)
- 1 x M.2 Key B 2242/3052 (PCIe Gen. 3 x2, USB3.2, SATA, SIM)
- 1 x M.2 Key M 2280 (PCIe Gen. 4 x4, NVMe)
- 1 x M.2 Key E 2230 (PCIe x1, USB2)
- 1 x 2.5" SATA HDD/SSD (2 x 2.5" SSD for selected SKU)
- TPM 2.0 onboard (Default)
- Supports the PoE function (Varies by model)
- PCI/PCIe expansions (Varies by model)

## Product Overview

Nexcom introduces the NISE 3000 C30/C31 next-generation edge AI computing platform. The NISE 3000 C30/C31 is a powerful, fanless edge computing system designed to meet the demands of industrial automation and AI-driven applications. Powered by the latest Intel® Core™ Ultra 200 Series processors, it integrates CPU, GPU, and NPU in a unified architecture, enabling advanced capabilities in machine vision, real-time data processing, image analysis, and intelligent surveillance. With support for up to 96GB of high-speed DDR5 6400 CSO-DIMM memory, versatile M.2, SSD, and HDD storage options, and optional 5G/4G LTE, or Wi-Fi connectivity, the NISE 3000 C30/C31 offers unmatched performance and scalability for edge deployments. Engineered for reliability, it features 24V DC input and supports extended operating temperatures from -20°C to 60°C (without add-on cards), making it ideal for harsh industrial environments. NISE3000 C30/C31 supports the PoE function, which allows the system to supply power through standard Ethernet cables to directly power PoE-enabled IP cameras, making it perfect for machine vision, surveillance, or security applications at the edge.

## Specifications

### CPU Support

- Supports Intel® Core™ Ultra 200 Series 5/7/9 (LGA1851) socket type embedded processors, up to 35W
- Turbo-boost is disabled by default

### Main Memory

- 2 x DDR5 6400 CSO-DIMM socket unbuffered and non-ECC, up to 96GB

### Display Option

- Three independent display: DP, HDMI®, and USB-C (DP Alt Mode)

### Audio

- HD Audio Codec, Realtek ALC888

### I/O Interface-Front

- 1 x ATX power on/off switch
- LED indicators :
  - 4 x COM Tx/Rx
  - 4 x LAN active
  - 1 x GPO status
  - 1 x HDD/SSD status
  - 1 x Battery low
  - M.2 Key M 2280 status
- 4 x USB 2.0, Type A
- 1 x SIM card holder (Under front cover)
- 1 x Line out and 1 x mic-in
- 2 x Antenna holes

- Optional I/F (Support DB44 Bracket (NISKECOM, NISKLAN etc.) , support DIO module, FBI module)

### I/O Interface-Rear

- 3 x 2.5GbE RJ45 port, Intel® I226-IT & 1 x 2.5GbE RJ45 PoE port, Intel® I226-IT, total up to 15W (C30-E/E2/P2E/R) or 2 x 2.5GbE RJ45 port, Intel® I226-IT & 2 x 2.5GbE RJ45 PoE port, Intel® I226-IT, total up to 30W (C31-E2/P2E/E16 & C32-E16)
- 1 x HDMI® port
- 1 x DP port
- 4 x USB 3.2 Gen 2, 10Gbps, Type-A
- 1 x USB 3.2 Gen 2x2, 20Gbps, Type-C (PD 45W, DP ALT mode) (C30-E/E2/P2E/R, C32-E16) or 1 x USB 3.2 Gen 2x2, 20Gbps, Type-C (PD 60W, DP ALT mode) (C31-E2/P2E/E16)
- 1 x USB 4, 40Gbps, Type-C (5V/3A, 15W)
- 2 x COM Port (DB9), supports RS-232/422/485 (2.5KV isolation)
- 1 x COM Port (DB9), supports RS-232 (C30/31-E) or 2 x COM Port (DB9), supports RS-232 (C30/31/32-E2/P2E/E16)
- 1 x 3-pin DC input, supports +24 VDC input with +/-20% range
- 1 x 3-pin remote power on/off switch

### I/O Interface-Internal

- 8 x GPI and 8 x GPO (5V, TTL type)
- 1 x M.2 Key B 2242/3052 (PCIe Gen. 3 x2, USB3.2, SATA, SIM)
- 1 x M.2 Key M 2280 (PCIe Gen. 4 x4, NVMe)
- 1 x M.2 Key E 2230 (PCIe x1, USB2)
- 1 x USB2.0 vertical Type A connector for encryption dongle
- TPM 2.0 onboard (Default)

### Storage Device

- 1 x 2.5" SATA 3.0 HDD/SSD (2 x 2.5" SSD for selected SKU "R")
- 1 x M.2 Key M 2280 (NVMe), 1 x M.2 Key B 2242

### Expansion Slot

- C30/C31-R: w/o expansions
- C30/C31-E: 1 x PCIe x8 up to 25W, 169mm max. length
- C30/C31-E2: 2 x PCIe x8 up to 10W/slot, 240mm max. length
- C30/C31-P2E: 1 x PCIe x8 + 1 x PCI up to 10W/slot, 240mm max. length
- C31-E16: 1 x PCIe x16 up to 75W, 240mm max. length
- C32-E16: 1 x PCIe x16 up to 65W, 240mm max. length

### Power Requirements

- AT/ATX power mode (Default ATX mode)
- Power input: +24 VDC with +/-20% range

### Dimensions

- 204 mm(W) x 272mm (D) x 120mm (H) for E2/P2/P2E/E16
- 204 mm(W) x 272mm (D) x 99mm (H) for E/R/H

### Construction

- Aluminum and metal chassis with fanless design

### Environment

- Operating temperature: Ambient with air flow: -20°C to 60°C (according to IEC60068-2-1, IEC60068-2-2, IEC60068-2-14)
- Storage temperature: -20°C to 80°C
- Relative humidity: 10% to 95% (non-condensing)
- Shock protection:
  - HDD: 20G@wallmount, half sine, 11ms(operation), IEC600682-27
  - SSD: 50G@wallmount, half sine, 11ms(operation), IEC600682-27
- Vibration protection:
  - Random: 0.5Grms@5~500Hz, IEC60068-2-64
  - Sinusoidal: 0.5Grms@5~500Hz, IEC60068-2-6

### Certifications

- CE
- FCC Class A

### OS Support Lists

- Windows 11
- Windows 10 IoT Enterprise, 64-bit
- Linux for Ubuntu

## Ordering Information

- **NISE 3000 C30-E**  
Intel® Core™ Ultra 200 Series (35W) fanless system with one PCIe x8 expansion
- **NISE 3000 C30-E2**  
Intel® Core™ Ultra 200 Series (35W) fanless system with two PCIe x8 expansions
- **NISE 3000 C30-P2E**  
Intel® Core™ Ultra 200 Series (35W) fanless system with one PCI and one PCIe x8 expansion
- **NISE 3000 C30-R**  
Intel® Core™ Ultra 200 Series (35W) fanless system with two outside accessible 2.5" HDD/SSD tray, support RAID 0/1
- **NISE 3000 C31-E2**  
Intel® Core™ Ultra 200 Series (35W) fanless system with two PCIe x8 expansions
- **NISE 3000 C31-P2E**  
Intel® Core™ Ultra 200 Series (35W) fanless system with one PCI and one PCIe x8 expansion
- **NISE 3000 C31-E16**  
Intel® Core™ Ultra 200 Series (35W) fanless system with one PCIe x16 expansion (Up to 75W)
- **NexVIC-Edge (P/N: 7900000208X01)**  
Pure Software Solution for VIC-Flow and Dashboard on x86 Systems
- **NexVIC-Community (P/N: CM00003179X00)**  
HW Monitor & Desktop Remote Agent for Free License



## Dimension Drawing C30-E2/P2E & C31-E2/P2E/E16

