

NDiS B561

Visual Edge Computer Powered by
12th Gen Intel® Core™ Processor



Main Features

- Support 12th Gen Intel® Core™ i7/i5/i3 LGA socket type embedded processor, up to 35W
- Intel® Q670E
- Intel® integrated UHD graphic engine driven by Xe architecture
- Support 3 independent 4K2K@60Hz display output. HDMI 2.1 resolution can be up to 8K@60Hz
- 1 x HDMI 2.1, 2 x HDMI 2.0
- 8 x USB 3.2, 4 x COM,
- 1 x GbE LAN, 2 x 2.5G GbE LAN
- Support M.2 Key B/E/M
- Support extended temperature -20~60°C
- Fanless design

Product Overview

Powered by the 12th Gen Intel® Core™ processor series and Intel® 600 series chipset integrated graphics controller, the NDiS B561 fanless visual edge computer can handle powerful multimedia content. It can be operated in an extended operating temperature range between -20 to 60°C. Moreover, to fully satisfy customers' expectations, there are three 4K2K independent display outputs or up to 8K@60Hz in one display output and rich connectives including 8 x USB 3.2, 3 x LAN ports (including 2 x PoE ports), Wi-Fi 6E and 4G, 5G support. The NDiS B561 can be used for both indoor and outdoor applications such as visual edge computing, AI recognition, public transportation, outdoor bus station, and even smart stadium.

Specifications

CPU Support

- 12Gen Intel® Core™ i7/i5/i3 LGA socket type processor, up to 35W
- Intel® Core™ i7-12700TE, 12 Core, 1.4GHz, 25M Cache
- Intel® Core™ i5-12500TE, 6 Core, 1.9GHz, 18M Cache
- Intel® Core™ i3-12100TE, 4 Core, 2.1GHz, 12M Cache

Chipset

- Intel® PCH Q670E

Graphics

- Intel® UHD graphics 730 series

Main Memory

- 2 x 262-pin SO-DIMM sockets, support DDR5 4800 MHz non-ECC, un-buffered memory up to 64G (single socket max 32GB)

I/O Interface-Front

- 1 x Power button
- 1 x Power LED, 1 x HDD LED
- 1 x Reset switch
- 2 x USB 3.2

- 4 x DB9 for COM1~ COM4
 - COM1: RS-232/422/485
 - COM2~4: RS232
- 3 x Antenna hole

I/O Interface-Rear

- +12~24V DC-in
- 1 x HDMI 2.1, 2 x HDMI 2.0
- 6 x USB 3.2
- 1 x RJ45 LAN 1 with LED for 10/100/1000Mbps
- 2 x RJ45 LAN 2/3 with LED 10/100/1000/2500Mbps
- 1 x Mic-in, 1 x Line-out
- 1 x SIM card
- 3 x Antenna hole

I/O Interface-Internal

- 8CH GPIO support 4 x GPO and 4 x GPI
- Onboard TPM 2.0
- Support iAMT (not for i3)

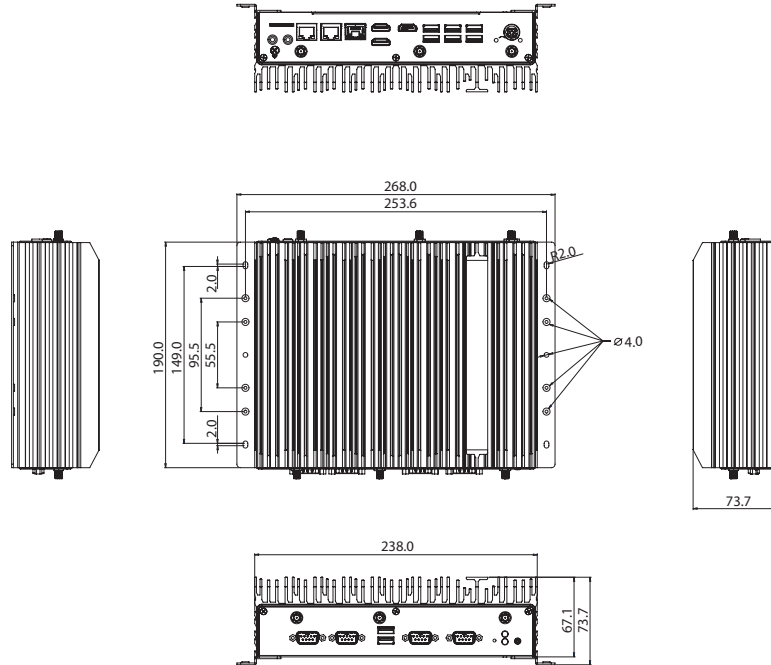
Storage

- 1 x M.2 2280 (SATA, PCIe x4) Key M socket
- 1 x M.2 2280 (PCIe x4) Key M socket

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Dimension Drawing



Expansion

- 1 x M.2 2230 Key E (PCIe x2, USB), support optional Wi-Fi modules
- 1 x M.2 3042/3052 Key B (PCIe x1, USB 3.2), support optional 3G, 4G or 5G modules
- 1 x SIM slot

Power Supply

- 1 x External AC/DC 12V/120W power adapter

Environment

- Operating temperature: -20°C to 60°C w/ 0.7m/s air flow
- Storage temperature: -20°C to 80°C
- Humidity: 10 to 95% (non-condensing)

Certification

- CE Approval
- FCC Class A

Dimensions

- 238mm (W) x 192mm (D) x 67.29mm (H)

Operating System Support

- Win11/Win10/Linux Kernel

Ordering Information

- **NDiS B561 (P/N: 10W00B56101X0)**
12th Gen Intel® Core™ processor (up to 35W) fanless system, Intel® Q670E chipset

Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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