



## 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 X<sup>e</sup> 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 in-door and out-door 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
- Intel® UHD graphics 770 series for i5 and above

### 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

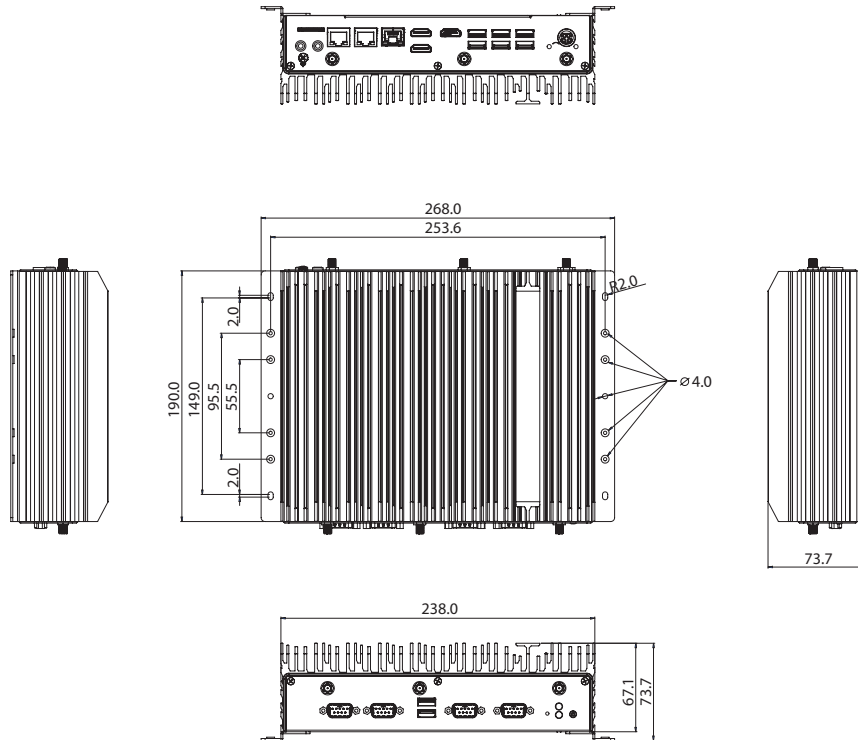
### I/O Interface-Rear

- +12~24V DC-in
- 1 x HDMI 2.1 support 8K@60Hz
- 2 x HDMI 2.0 support 4K@60Hz
- 6 x USB 3.2
- 1 x Intel® I219-LM GbE LAN port
- 2 x Intel® I226V 2.5G Ethernet LAN port
- 1 x Mic-in, 1 x Line-out
- 1 x SIM slot\*
  - \* NOTE: NDiS B561 Series is designed with 2x SIM slots. Dual SIM functionality depends on whether the LTE module specification. For example, when using QUECTEL EM06-Emodule, only one SIM card functions either through back-panel slot or internal slot
- 3 x Antenna hole

### I/O Interface-Internal

- 8CH GPIO support 4 x GPO and 4 x GPI
- Onboard TPM 2.0
- Support Intel® AMT (i5 above)

## Dimension Drawing



### Storage

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

### 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\*

\* NOTE: NDIS B561 Series is designed with 2x SIM slots. Dual SIM functionality depends on whether the LTE module specification. For example, when using QUECTEL EM06-Emodule, only one SIM card functions either through back-panel slot or internal 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 190mm (D) x 67.1mm (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



## 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 PoE (Follow IEEE802.3af std.)
- ♦ Support M.2 Key B/E/M
- ♦ Support temperature 0~40°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-PoE fanless visual edge computer can handle powerful multimedia content. It can be operated in operating temperature range between 0 to 40°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 connectivities 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-PoE can be used in various applications such as visual edge computing, AI reorganization, smart parking system, public transportation, and security surveillance.

## Specifications

### CPU Support

- ♦ 12th Gen Intel® Core™ i7/i5/i3 LGA socket type processor, up to 35W
  - Intel® Core™ i7-12700TE, 12 Core, 1.4GHz, 25M Cache
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### 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

- ♦ 24V DC-in
- ♦ 1 x HDMI 2.1 support 8K@60Hz
- ♦ 2 x HDMI 2.0 support 4K@60Hz
- ♦ 6 x USB 3.2
- ♦ 1 x Intel® I219-LM GbE LAN port
- ♦ 2 x PoE with Intel® I226V 2.5G Ethernet LAN port (follow IEEE802.3af, total up to 30W)
- ♦ 1 x Mic-in, 1 x Line-out
- ♦ 1 x SIM slot\*

\* NOTE:

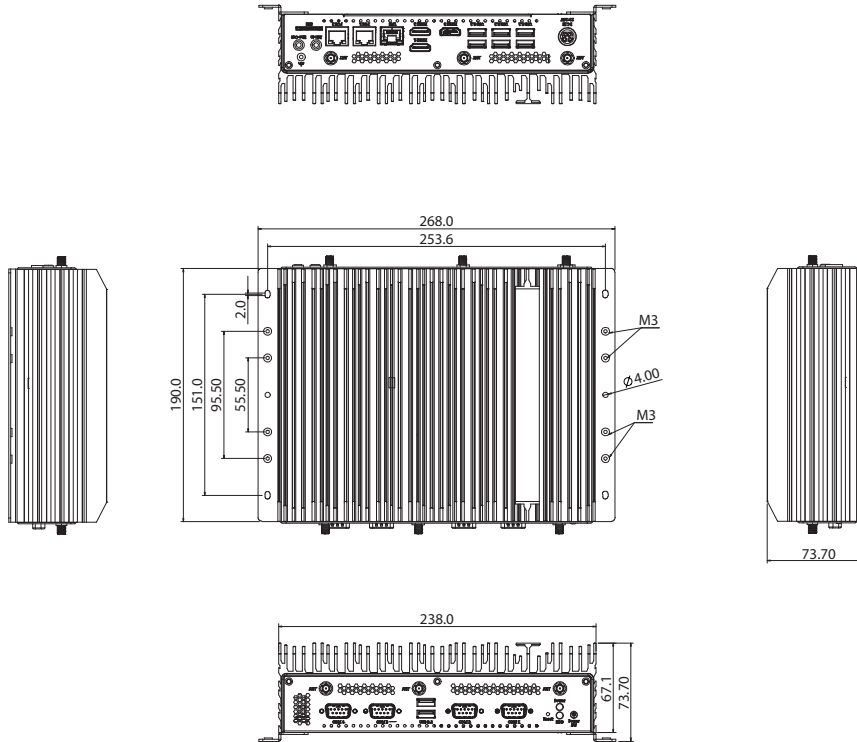
NDiS B561 Series is designed with 2 x SIM slots. Dual SIM functionality depends on whether the LTE module specification. For example, when using QUECTEL EM06-Emodule, only one SIM card functions either through back-panel slot or internal slot.

- ♦ 3 x Antenna hole

### I/O Interface-Internal

- ♦ 8CH GPIO support 4 x GPO and 4 x GPI
- ♦ Onboard TPM 2.0
- ♦ Support Intel® AMT (i5 above)

## Dimension Drawing



### Storage

- s1 x M.2 2280 Key M (PCIe x4, SATA) socket (Back side)
- s1 x M.2 2280 Key M (PCIe x4) socket (Topside)

### 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
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- 1 x External AC/DC 24V/180W power adapter

### Environment

- Operating temperature: 0°C to 40°C w/ 0.7m/s air flow
- Storage temperature: -20°C to 80°C
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### Certification

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