NDiS B561/B561-PoE

Duro Edge Computer
Powered by 14/13/12th Gen Intel® Core™ i Processor

Main Features

- Support 14/13/12th Gen Intel® Core™ i7/i5/i3 processor
- Intel® PCH Q670E
- Intel® integrated UHD Graphics engine driven by Xᵉ architecture
- Support 3 independent 4K@60Hz display outputs
- 2 x HDMI® 2.0, 1 x HDMI® 2.1, up to 8K@60Hz
- 8 x USB 3.2
- 4 x COM port
- NDiS B561: 1 x 1GbE LAN, 2 x 2.5GbE LAN
- NDiS B561-PoE: 1 x 1GbE LAN, 2 x 2GbE PoE (follow IEEE 802.3af std)
- 3 x M.2 Key B/E/M

Product Overview

Powered by the 14/13/12th Gen Intel® Core™ i processor and Intel® 600 series chipset integrated graphics controller, the NDiS B561/B561-PoE fanless Duro Edge computer can handle powerful multimedia content. It can be operated in an extended operating temperature range between -20°C to 60°C (NDiS B561) or 0°C to 40°C (NDiS B561-PoE). Moreover, to fully meet customers' expectations, the system supports three independent 4K/2K display outputs or a single 8K@60Hz display, and offers rich connectivity, including eight USB 3.2 ports, three LAN ports (two with PoE on NDiS B561-PoE), Wi-Fi 6E, and 4G/5G support. The NDiS B561/B561-PoE can be used for both in-door and out-door applications such as visual edge computing, AI recognization, public transportation, outdoor bus station, and even smart stadium.

Specifications

Processor

- 14th Gen Intel® Core™ i processor
  - Intel® Core™ i7 processor 14700T, PBP 35W
  - Intel® Core™ i5 processor 14500T, PBP 35W
  - Intel® Core™ i3 processor 14100T, PBP 35W
- 13th Gen Intel® Core™ i processor
  - Intel® Core™ i7-13700TE processor, PBP 35W
  - Intel® Core™ i5-13500TE processor, PBP 35W
  - Intel® Core™ i3-13100TE processor, PBP 35W
- 12th Gen Intel® Core™ i processor
  - Intel® Core™ i7-12700TE processor, PBP 35W
  - Intel® Core™ i5-12500TE processor, PBP 35W
  - Intel® Core™ i3-12100TE processor, PBP 35W

Chipset

- Intel® PCH Q670E

Integrated Graphics

- Intel® UHD Graphics 730 series
- Intel® UHD Graphics 770 series (i5 and above)

Memory

- 2 x DDR5 4800 SO-DIMM, non-ECC, unbuffered, up to 64G, 32GB per DIMM

Storage

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

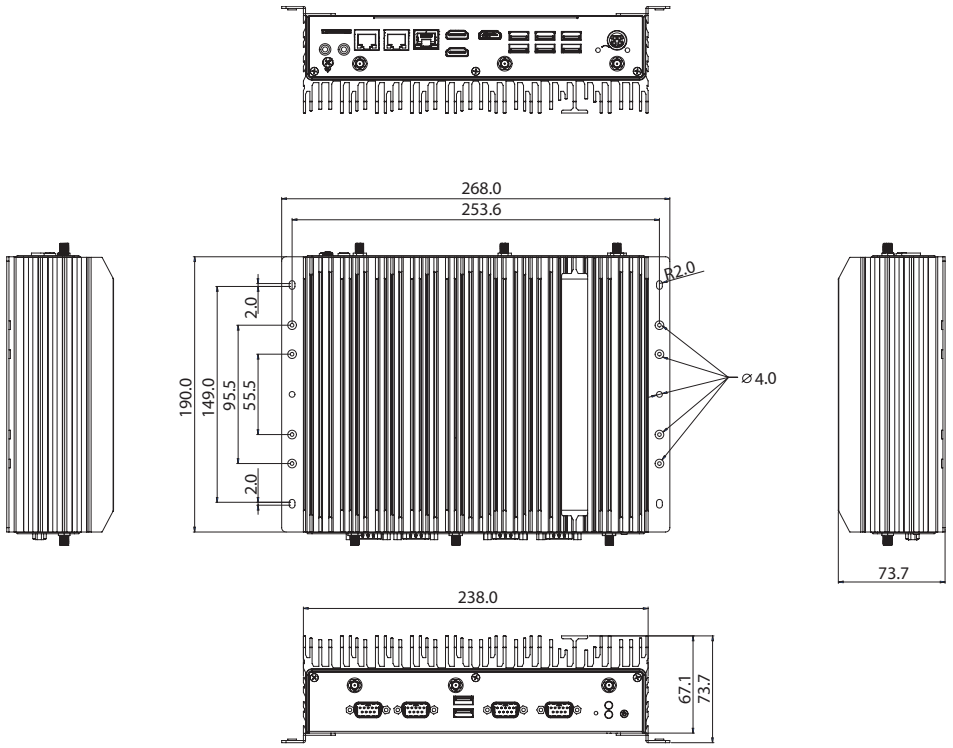
I/O Interface Front

- 1 x Power button
- 1 x Power LED, 1 x HDD LED
- 1 x Reset switch
- 2 x USB 3.2
- 4 x COM port (DB9)
  - COM1 supports RS-232/422/485
  - COM2~COM4 support RS-232
- 3 x Antenna hole

I/O Interface Rear

- NDiS B561: DC +12~24V power input
- NDiS B561-PoE: DC 24V power input
- 1 x HDMI® 2.1, supports 8K@60Hz
- 2 x HDMI® 2.0, supports 4K@60Hz
- 6 x USB 3.2
- 1 x 1GbE RJ45 port, Intel® I219-LM
- NDiS B561: 2 x 2.5GbE RJ45 port, Intel® I226V
- NDiS B561-PoE: 2 x 2GbE RJ45 PoE port, Intel® I226V, up to 30W (IEEE 802.3af)
- 1 x Mic in, 1 x Line out

Dimension Drawing



- 1 x SIM slot
- 3 x Antenna hole

I/O Interface Internal

- 8-ch GPIO, 4 x DI, 4 x DO

System Capabilities

- TPM 2.0

Environment

- Temperature:
  - NDiS B651: -20°C~60°C w/ 0.7m/s air flow
  - NDiS B651-PoE: 0°C~40°C w/ 0.7m/s air flow
  - Storage temperature: -20°C~80°C
- Humidity: 10%~95% (non-condensing)

Expansion Slot

- 1 x M.2 Key E 2230 (PCIe x2, USB)
  - Support a Wi-Fi module
- 1 x M.2 Key B 3042/3052 (PCIe x1, USB 3.2)
  - Support a 4G/5G module
- 1 x SIM slot
  - * This system is equipped with dual SIM slots. Support for dual SIM functionality depends on the installed mobile network module.

Power Supply

- NDiS B561: 1 x 12V/120W AC/DC power adapter
- NDiS B561-PoE: 1 x 24V/180W AC/DC power adapter

Mechanical

- Dimensions: 238.0mm (W) x 190.0mm (D) x 67.1mm (H) w/o bracket
- Net weight: 3.9kg

Package Information

- Dimensions: 420mm (W) x 275mm (D) x 127mm (H)
- Gross weight: 4.6kg (1 unit per carton)

Certifications

- CE Approval (EN 55032/EN 55035)
- FCC Class A (Part 15B)

Operating System

- Windows 11
- Windows 10, 64bit
- Linux

Ordering Information

- **NDiS B561 (P/N: 10W00B56101X0)**

  14/13/12th Gen Intel® Core™ i processor fanless system, Intel® Q670E chipset

- **NDiS B561-PoE (P/N: 10W00B56102X0)**

  14/13/12th Gen Intel® Core™ i processor fanless system, Intel® Q670E chipset, PoE