NDiS B340 Series

Duro Edge Computer Powered by
Intel Atom® Processor X Series/Intel® Processor N-Series

NDiS B340

NDiS B340 w/ DockInfinity-E4X1

Main Features

- Intel Atom® Processor X Series/Intel® Processor N-Series
- 1 x DDR5 SO-DIMM, up to 16GB
- 2 x HDMI® 2.0 output, up to 3840x2160@60Hz
- 2 x Intel® LAN port
- 6 x USB 2.0, 1 x Line out, 1 x GPIO, 2 x COM port
- Support one PCIe 3.0 x4 expansion card (w/ optional dock)
- 1 x M.2 Key B 3052 for an optional 5G/LTE module
- 1 x M.2 Key E 2230 for an optional Wi-Fi module
- 1 x M.2 Key M 2242 for an optional SSD
- TPM 2.0 for security
- Support DC +12V~24V power input

Product Overview

The NDiS B340 supports multiple Intel® low-power platforms, including Intel Atom® x7433RE/x7213RE processor, and Intel® processor N150/N97, allowing customers to scale performance without redesigning the system. Its fanless, compact metal chassis ensures reliable 24/7 operation in space-constrained and harsh environments, making it well suited for smart retail, digital signage, industrial control, transportation, and edge gateway applications.

The system features dual HDMI® 2.0 outputs supporting 4K@60Hz for multi-display use cases, along with dual 2.5GbE LAN ports for high-speed connectivity. Rich industrial I/O, including serial ports and programmable GPIO, enables easy integration with legacy devices and sensors. Optional DockInfinity-E4X1 PCIe expansion provides a half-length PCIe x4 slot for PoE, capture cards, or custom modules. With a wide-range DC 12V to 24V input, wall-mount support, and built-in TPM 2.0 and watchdog support, the NDiS B340 delivers a flexible, future-ready edge platform for long-term deployment.

Specifications

Processor

- Intel Atom® Processor X Series
  - Intel Atom® x7433RE processor, TDP 9W
  - Intel Atom® x7213RE Processor, TDP 9W
- Intel® Processor N series
  - Intel® processor N150, PBP 6W
  - Intel® processor N97, TDP 12W

Memory

- 1 x DDR5 4800 SO-DIMM, non-ECC, unbuffered, up to 16GB (Intel® processor N150)
- 1 x DDR5 4800 SO-DIMM, non-ECC, unbuffered, up to 32GB (Intel® processor N97/Intel Atom® Processor X Series)

Integrated Graphics

- Intel® Graphics

Display Interface

- 2 x HDMI® 2.0, up to 3840x2160@60Hz

Storage

- 1 x M.2 Key M 2242 (SATA)

Expansion Slot

- 1 x M.2 Key E 2230 (PCIe 3.0 x1, USB 2.0)
  - Support a Wi-Fi module
- 1 x M.2 Key B 3052 (PCIe 3.0 x1, USB 3.2)
  - Support a 5G/LTE module
- 1 x nano-SIM slot

I/O Interface Front

- 1 x Power button with LED
- 1 x HDD LED
- 2 x USB 2.0, Type-A
- 1 x Line out
- 1 x GPIO (DB15)
  - 6 x DI, 6 x DO
- 2 x COM port, supports RS-232/422/485 (RS-485 supports Auto Flow as default))
- 2 x Antenna hole

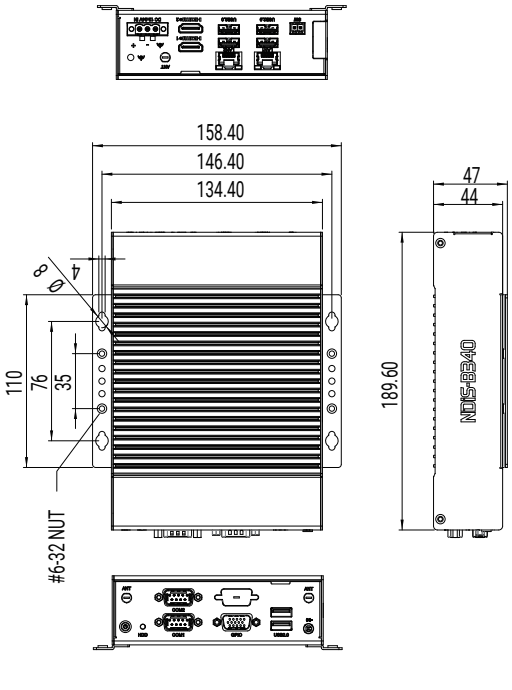
I/O Interface Rear

- 4 x USB 2.0, Type-A
- 2 x 2.5GbE RJ45 port, Intel® I226V
- 2 x HDMI® 2.0 output, up to 3840x2160@60Hz
- 1 x 3-pin Phoenix connector for DC 12V~24V power input
- 1 x 2-pin Phoenix header for remote switch
- 1 x Antenna hole

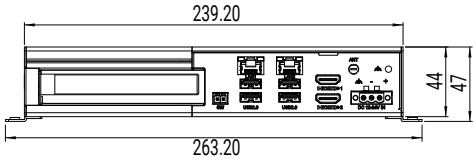
I/O Interface Internal

- 1 x 4-pin header for speaker out, amplifier 2W/4Ω
- 1 x 4-pin header for mic in

Dimension Drawing



NDiS B340



NDiS B340 w/ DockInfinity-E4X1

- 1 x 9-pin header for 4 x COM port (COM3~COM6, RS-232, reserved)
- 1 x 2-pin header for reset
- 1 x 2-pin header for buzzer
- 1 x 4-pin header for I²C
- 1 x 2-pin header for power button
- 1 x 4-pin (2x2) header for ATX power connector, 12V/5A output for PoE card
- 1 x 4-pin header for CPU FAN

Environment

- Operating temperature:
  - Intel Atom® Processor X Series: -20°C~60°C
  - Intel® Processor N series: -5°C~55°C
  - w/ PoE card: -5°C~55°C
- Storage temperature: -20°C~80°C
- Humidity: 10%~95% (non-condensing)

System Capabilities

- TPM 2.0

Mechanical

- Dimensions:
  - NDiS B340: 158.4mm (W) x 189.6mm (D) x 44mm (H) (w/ bracket)
  - NDiS B340 w/ DockInfinity-E4X1: 263.2mm (W) x 189.6mm (D) x 44mm (H) (w/ bracket)
- Net Weight:
  - NDiS B340: 1.3kg
  - NDiS B340 w/ DockInfinity-E4X1: 2.0kg

Package Information

- Dimensions: 476mm (W) x 355mm (D) x 206mm (H)
- Gross weight:
  - NDiS B340: 4.6kg (2 units per carton)
  - NDiS B340 w/ DockInfinity-E4X1: 3.0kg (1 unit per carton)

Power Supply

- Nominal voltage: DC +12V~24V, 120W, power adapter not included in accessory

Certifications

- CE approval (EN 50035 + EN 50032)
- FCC Class A (Part 15B)
- LVD (EN 62368-1)

Operating System

- Windows 11
- Windows 10, 64bit
- Linux 5.15

Ordering Information

- **NDiS B340-X7213RE (P/N: 10W00B34001X0)**
  Duro Edge computer, Intel Atom® x7213RE processor
- **NDiS B340E1-X7213RE (P/N: 10W00B34005X0)**
  Duro Edge computer, Intel Atom® x7213RE processor, w/ one PCIe x4 expansion kit (DockInfinity-E4X1)
- **NDiS B340-X7433RE (P/N: 10W00B34002X0)**
  Duro Edge computer, Intel Atom® x7433RE processor
- **NDiS B340E1-X7433RE (P/N: 10W00B34006X0)**
  Duro Edge computer, Intel Atom® x7433RE processor, w/ one PCIe x4 expansion kit (DockInfinity-E4X1)
- **NDiS B340-N97 (P/N: 10W00B34003X0)**
  Duro Edge computer, Intel® processor N97
- **NDiS B340E1-N97 (P/N: 10W00B34007X0)**
  Duro Edge computer, Intel® processor N97, w/ one PCIe x4 expansion kit (DockInfinity-E4X1)
- **NDiS B340-N150 (P/N: 10W00B34008X0)**
  Duro Edge computer, Intel® processor N150
- **NDiS B340E1-N150 (P/N: 10W00B34009X0)**
  Duro Edge computer, Intel® processor N150, w/ one PCIe x4 expansion kit (DockInfinity-E4X1)
- **DockInfinity-E4X1 (P/N: 10W00DOCK01X0)**
  One PCIe x4 expansion kit for Duro Edge computer

We reserve the right to change specifications and product descriptions at any time without prior notice.