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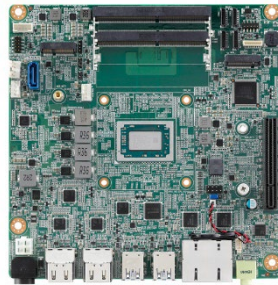


# Datasheet

## NEXCOM

### V1000

**Industrial Mini-ITX Motherboard, AMD Ryzen™ V1605B Processor with 4 x HDMI, M.2 Key M, M.2 Key E,  
2 x GbE, 6 x USB, 4 x COM, 12V DC**



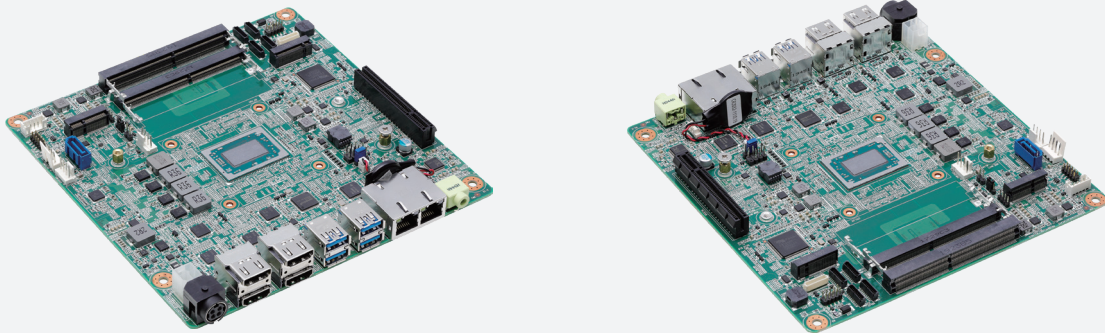
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# V1000

Mini-ITX, AMD Ryzen™ V1605B Processor with 4 x HDMI, M.2 Key M, M.2 Key E, 2 x GbE, 6 x USB, 4 x COM, 12V DC



## Main Features

- Onboard AMD V1605B APU processor
- Graphics operating at up to 1.1 GHz
- Dual DDR4 SO-DIMM, up to 32G
- Support 4 x HDMI 2.0 display
- Support M.2 Key M, 2280/2242 size storage device
- 4 x USB 3.0 support
- M.2 Key E slot for optional Wi-Fi module
- 2 x RJ45 with LEDs for Gigabit LAN
- 1 x TPM 2.0 IC onboard

## Product Overview

Empower your workforce with V1000 performance that conquers every task, AMD Ryzen™ V1605B processor, high speed, responsive system memory, and native support for up to four UHD/4K displays. This AMD APU can power up to four independent displays in crisp static UHD/4K resolution via HDMI, and supports High Dynamic Range (HDR) displays. This eliminates the need for an additional graphics card and device drivers, lowering costs and enhancing the user experience. The NDiB V1000 manages in-store traffic analytics, simultaneously engaging “calls to action” with virtual interactions in order to increase product interest and dwell time.

The V1000, supporting HDMI display, USB 3.0 ports, and a RS232 interface, is an ideal high-end embedded player to optimize information visualization, convey brand messages, customer engagement, and smart retail management efficiencies to increase in-store traffic and sales. The slim fanless design with extended durability further covers usages like endless aisles, QSRs, drive-thru kiosks, bus stops, digital transit information signs, and information stands.

## Specifications

### CPU Support

- AMD Ryzen™ Embedded V1605B Quad Core CPU

### Graphics

- AMD Radeon™ Vega 8 Graphics

### Main Memory

- 2 x 260-pin SO-DIMM sockets, supports DDR4 2400MHz non-ECC, un-buffered memory up to 32G (single socket max.16GB)

### On Board LAN

- 2 x Intel® LAN controller: Pearsonville I211-AT Ethernet, PCIe v2.1 (2.5 GT/s)
- 2 x RJ45 connector with LEDs
- Support boot from LAN (PXE) for Ethernet Boot up
- Support WOL

### Edge I/O Interface

- 1 x Power button
- 4 x HDMI 2.0 with resolution up to 4096 x 2160 @ 60Hz
- 2 x RJ45 with LEDs for Gigabit LAN (Intel® I211-AT)
- 4 x USB 3.1
- 1 x +12V DC-in Jack (4-pin)
- 1 x Audio Line-out

### On Board I/O Interface

- 1 x HDD active LED
- 1 x RS232 (RS232/RS422/RS485)
- 3 x RS232 via box header
- 2 x USB 2.0
- PCI-e Slot x 8
- GPIO connector

### Display

- 4 x HDMI 2.0

### Audio

- Realtek ALC892
- 1 x Line-out audio jack on rear I/O
- 1 x Mic-in audio connector internal pin header

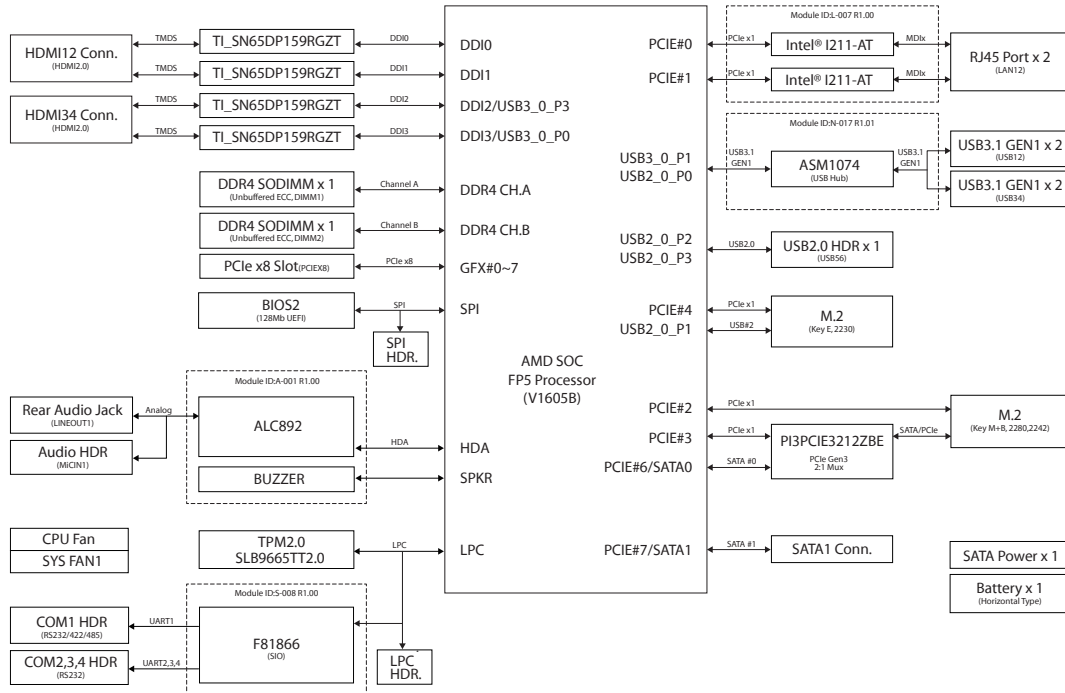
### Expansion

- 1 x M.2 Key E, support 2230 Wi-Fi module

### Storage

- 1 x M.2 Key M slot 2242/2280, support SATA 3.0/PCIe NVMe SSD
- 1 x SATA connector and SATA power as expansion storage

## Block Diagram



### Dimensions

- 170mm (L) x 170mm (W) (6.7" x 6.7")

### Certification

- CE/FCC relative humidity

### Power Requirements

- 1 x External 12+/-5% VDC, DC jack connector 4-pin
- 1 x 12+/-5% VDC, DC jack connector 4-pin

### Environment

- Operating temperature: -5°C to 60°C
- Storage temperature: -20°C to 80°C
- Humidity: 95% (non-condensing)

## Ordering Information

- **V1000 (P/N: 10WB010000X0)**

Mini-ITX, AMD Ryzen™ V1605B processor with 4 x HDMI, M.2 Key M, M.2 Key E, 2 x GbE, 6 x USB, 4 x COM, 12V DC

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