Ruby 2 R3 - AMD 5000 Series Simply NUC Mini CBM2r3RB

High-Speed Performance

Featuring the new AMD Ryzen™ 5300U mobile processor with Radeon™ graphics, and support for high-speed DDR4-3200 memory, Ruby 2 continues to bring unprecedented performance in a small form factor. At home, stream 4K video, play games, or finish your homework. At work, Ruby 2 keeps you productive—perfect for content creation, multitasking, and video conferencing. The new 5300U Ryzen processor will keep your Ruby 2 at peak performance when you need it, whatever the task.

Feature Rich for Versatility

Ruby 2 supports up to four 4K displays at 60Hz simultaneously. Dual Ethernet with 2.5Gbps and 1Gbps speeds allow you to connect to multiple networks, with one port providing DASH support for remote management of your fleet of Simply NUC Mini PCs. Ruby 2 also features TPM for sensitive communications where encryption is required. Take advantage of Intel® Wi-Fi 6 with high-speed

connectivity, enhanced for efficient bandwidth usage in environments with many connected devices. Ruby 2 has ample connections for all your peripheral devices with four front 10Gbps super speed USB ports plus two rear high-speed USB Type-A ports. Further enhance your I/O layout with lid expansions bringing RS-232, dual-HDMI or additional USB ports to accommodate your complex system designs. Paired with your choice of RAM, SSD and OS, Ruby 2 is ideal for a home office or entertainment system, an office PC or even an entry-level gaming rig, giving you the versatility you deserve.

Efficient by Design

The new 5300U processor in Ruby 2 gives you unrivalled performance in a small 4"x4" package with little power consumption, making it the perfect device to drive up your productivity while driving down operating costs. Upgrade your compute power today with Ruby 2 from Simply NUC.

Highlighted Features

- AMD® Ryzen™ R3-5300U CPU
- AMD® Radeon™ Graphics
- 2x DDR4-3200 SO-DIMM Sockets
- 1x M.2 22x80 M-key supporting x4 PCIe Gen 3 or SATA SSDs
- 1x M.2 22x80 M-Key supporting SATA SSDs
- 4x 4K @ 60Hz Displays
    - 1x HDMI 2.0a
    - 1x DisplayPort 1.2a
    - 2x USB-C (Alt-DP)
- 1x Realtek 2.5Gb LAN
- 1x Realtek 1Gb LAN
- Intel® Wi-Fi 6+ Bluetooth 5.1
- 2x USB-C Gen2 Type-C
- 2x USB 3.2 Gen2 Type-A
- 2x USB 2.0 Type-A
- TPM Down (Infineon 2.0)
- 3.5mm stereo headset jack
- Kensington Lock support
- VESA Mount Included
- $19V_{DC}$, 90W Power Supply Included
- Extended Service Support (1-, 3-year)

Customization

- Primary storage supports up to 8TB PCIe x4 Gen 3 NVMe or 2TB SATA SSD
- Secondary storage supports up to 2TB SATA SSD
- DDR4-3200 memory up to 64GB
- Replaceable Lids
- OS options including Windows 10 Home & Pro, Windows IoTe, Ubuntu

Technical Specifications

Processor
- AMD® Ryzen™ R3-5300U, 4C/8T, 2.6GHz-3.8GHz Boost, 4MB L3 Cache, 15W

Audio
- 3.5mm Front Stereo Headset Jack
- 7.1 Multichannel Digital Audio via HDMI

Storage Capabilities
- 1x M.2 22x80 socket supporting PCIe x4 Gen 3 NVMe available from 256GB to 8TB or SATA SSD from 256GB to 2TB
- 1x M.2 22x80 socket supporting SATA SSD from 256GB to 2TB

Graphics
- AMD® Radeon™ Graphics up to 1.5GHz
- 4x 4K Displays Supported
  - 1x HDMI 2.0b
  - 1x DisplayPort 1.2a
  - 2x USB-C (Alt-DP)

Peripheral Connectivity
- Intel Wi-Fi 6 AX200 (802.11ax) + Bluetooth 5.1
- 1x Realtek 2.5Gb LAN (RTL8125BG)
- 1x Realtek 1Gb LAN (R8111FPV + DASH)
- 2x Front USB 3.2 Gen2 Type-A
- 2x Front USB 3.2 Gen2 Type-C
- 2x Rear USB 2.0 Type-A

System Memory
- Dual DDR4-3200 SODIMMs, 1.2V, 64GB Max

Baseboard Power Requirements
- 12-19V_{DC} Input Supply Range
- 19V_{DC}, 90W Power Supply Included

Expansion Options
- 2x USB 2.0 Headers
- 1x COM Header (RS-232/422/485)
- Replaceable Lid

Chassis Information
- 115x115x49mm
- Kensington Lock support
- VESA Mount Kit Support

Certifications and Regulation

Safety Regulations and Standards
- IEC 60950-1
- UL 60950-1
- EN 60950-1
- CAN/CSA-C22.2 No.60950-1

Environmental Operating Temp
- 0°C to +60°C
- Non-Condensing Humidity

EMC/RF Regulations & Standards
- FCC CFR Title 47, Chapter I, Part 15, Subparts. B, C, E
- EN 55052
- EN 55024
- CISPR 32
- ICES-003
- ETSI EN 300 328
- ETSI EN.301 489-1
- ETSI EN.301 893
- EN 62511

Environmental Regulations
- RoHS Directive 2011/65/EU
- WEEE Directive 2012/19/EU

Certified Operating Systems
- Windows 10 64-bit (Pro and Home)
- Windows IoT
- Ubuntu Linux