

R133-C10 (rev. AAA1) | (rev.AAG1)

Rack Server - AMD Ryzen™ 7000 - 1U UP 4-Bay SATA | Application: [Networking](#)

- AMD Ryzen™ 7000 series processors
- Single processor, 5nm technology
- Dual Channel ECC/Non-ECC DDR5 Unbuffered DIMM, 4 x DIMMs
- 2 x 1Gb/s LAN ports (Broadcom® BCM5720)
- 1 x Dedicated management port
- 4 x 3.5"/2.5" SATA hot-swappable bays
- 1 x M.2 slot with PCIe Gen4 x4 interface
- 1 x FHFL PCIe Gen5 x16 slot
- 1 x FHHL PCIe Gen4 x4 slot
- 1+1 550W (240V) 80 PLUS Platinum redundant power supplies



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Dimensions (WxHxD, mm)

1U
438 x 43.5 x 710

Motherboard

MC13-BL1

CPU

AMD Ryzen™ 7000 series processors
Single processor, 5nm technology
TDP up to 105W

**Overclocking not supported due to thermal limitation.*

Socket

AM5

Chipset

AMD B650E

Memory

4 x DIMM slots
DDR5 memory supported only
Dual Channel memory architecture
DIMM modules up to 32GB supported
ECC Unbuffered DIMM 1Rx8/2Rx8 modules supported
Non-ECC Unbuffered DIMM 1Rx8/2Rx8/1Rx16 modules supported
Memory speed: up to 5200 MHz (1DPC), 3600 MHz (2DPC)

LAN

Rear side:
2 x 1Gb/s LAN ports (2 x Broadcom® BCM5720)
Support NCSI function

1 x 10/100/1000 management LAN

Video

Integrated in Aspeed® AST2600
2D Video Graphic Adapter with PCIe bus interface
1920x1200@60Hz 32bpp, DDR4 SDRAM

Storage

Front side:
4 x 3.5"/2.5" SATA hot-swappable bays

SATA supported only

SAS

N/A

RAID

RAID 0/1/10

Expansion Slots**PCIe Ca**

- 1 x PCIe x16 (Gen5 x16) FHFL slot, from CPU

Riser Card CRSE016:

- 1 x PCIe x4 (Gen4 x4) FHHL slot, from CPU

1 x M.2 slot:

- M-key
- PCIe Gen4 x4, from FCH
- Supports 2280/22110 cards

Internal I/O

- 2 x USB 3.2 Gen1
- 2 x USB 2.0
- 1 x Front panel header
- 1 x Back panel header
- 2 x Fan headers (4 pin)
- 1 x M.2 slot
- 1 x TPM header
- 1 x PMBus header

Front I/O

- 2 x USB 3.2 Gen1
- 1 x Power button with LED
- 1 x ID button with LED
- 1 x NMI button
- 1 x Reset button
- 2 x LAN activity LEDs
- 1 x HDD activity LED
- 1 x System status LED

Rear I/O

- 2 x USB 3.2 Gen1
- 1 x Mini-DP
- 2 x RJ45
- 1 x MLAN
- 1 x ID button with LED

Backplane Board

Speed and bandwidth:
SATA 6Gb/s

TPM

1 x TPM header with SPI interface
Optional TPM2.0 kit: [CTM010](#)

Power Supply

1 x 1 550W (240V) 80 PLUS Platinum redundant power supplies

AC Input:

- 100-240V~/ 8-4A, 50-60Hz

DC Input:

- 240Vdc/ 2.75A

DC Output:

- Max 550W/ 100-240V~ or 240Vdc Input
+ 12V/ 44A
+ 12Vsb/ 2.1A

System Management

Aspeed® AST2600 management controller
GIGABYTE Management Console (AMI MegaRAC SP-X) web interface

Dashboard

HTML5 KVM

Sensor Monitor (Voltage, RPM, Temperature, CPU Status ...etc.)

Sensor Reading History Data

FRU Information

SEL Log in Linear Storage / Circular Storage Policy

Hardware Inventory

Fan Profile

System Firewall

Power Consumption

Power Control

Advanced power capping

LDAP / AD / RADIUS Support

Backup & Restore Configuration

Remote BIOS/BMC/CPLD Update

Event Log Filter

User Management

Media Redirection Settings

PAM Order Settings

SSL Settings

SMTP Settings

OS Compatibility

Windows 10 21H2 (x64)
Windows 11 (x64)

System Fans

3 x 40x40x56mm (29,700rpm)

Operating Properties

Operating temperature: 10°C to 30°C
Operating humidity: 8%-80% (non-condensing)
Non-operating temperature: -40°C to 60°C
Non-operating humidity: 20%-95% (non-condensing)

Packaging Dimensions

977 x 588 x 236 mm

Packaging Content

- 1 x R133-C10
- 1 x CPU heatsink
- 1 x Mini-DP to D-Sub cable
- 1 x 2-Section Rail kit

Part Numbers

- Barebone package: 6NR133C10MR000AAA1*
- Motherboard: 9MC13BL1NR-000
- 2-Section Rail kit: 25HB2-3A0203-K0R
- CPU heatsink: 25ST1-121100-A7R
- M.2 heatsink: 12SP2-11000E-00R
- Front panel board - CFP1013: 9CFP1013NR-00
- Backplane board - CBP1047: 9CBP1047NR-00
- Fan module: 25ST2-405623-A0R
- Riser card - CRSE016: 9CRSE01016NR-00
- Mini-DP to D-Sub cable: 25CRN-200801-K1R
- Power supply: 25EP0-205502-F3S

Optional parts:

- 3-Section Rail kit: 25HB2-A56120-K0R
- Cable Management Arm: 25HBZ-R18100-K0R

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* Advertised performance is based on maximum theoretical interface values from respective Chipset vendors or organization who defined the interface specification. Actual performance may vary by system configuration.

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* Due to standard PC architecture, a certain amount of memory is reserved for system usage and therefore the actual memory size is less than the stated amount.