

# R133-C11 (rev. AAB1) | (rev.AAG1)

Rack Server - AMD Ryzen™ 7000 - 1U UP 8-Bay SATA | Application: **Networking**

- Supports 1 x Dual slot Gen5 GPU card
- AMD Ryzen™ 7000 series processors
- AMD Ryzen™ 7000 series processors with AMD 3D V-Cache™ Technology
- Single processor, 5nm technology
- Dual Channel ECC/Non-ECC DDR5 Unbuffered DIMM, 4 x DIMMs
- 2 x 10Gb/s LAN ports (Broadcom® BCM57416)
- 2 x 1Gb/s LAN ports (Broadcom® BCM5720)
- 1 x Dedicated management port
- 4 x 3.5"/2.5" SATA hot-swappable bays
- 4 x 2.5" 9.5mm SATA hot-swappable bays
- 1 x M.2 slot with PCIe Gen4 x4 interface
- 1 x FHFL PCIe Gen5 x16 slot for GPUs
- 1 x FHFL PCIe Gen4 x4 slot
- 1+1 800W (240V) 80 PLUS Platinum redundant power supplies



OVERVIEW SPECIFICATIONS SUPPORT RESOURCES BUY

## Dimensions (WxHxD, mm)

1U  
438 x 43.5 x 710

## Motherboard

MC13-BL0

## CPU

AMD Ryzen™ 7000 series processors  
AMD Ryzen™ 7000 series processors with AMD 3D V-Cache™ Technology  
Single processor, 5nm technology  
TDP up to 170W

\*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 10Gb/s LAN ports (1 x Broadcom® BCM57416)  
2 x 1Gb/s LAN ports (1 x Broadcom® BCM5720)  
NCSI function supported on Broadcom® BCM5720 and BCM57416 (by switch)

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  
4 x 2.5" 9.5mm SATA hot-swappable bays

## SATA supported only

## SAS

N/A

## RAID

RAID 0/1/10

## Expansion Slots

### PCIe Cable:

- 1 x PCIe x16 (Gen5 x16) FHFL slot, from CPU, for GPUs\*

### \*Max 300W for GPUs

### Riser Card CRSE016:

- 1 x PCIe x4 (Gen4 x4) FHFL 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

1 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 Gen2  
1 x Mini-DP  
4 x RJ45  
1 x MLAN  
1 x ID button with LED

## Backplane I/O

Speed and bandwidth:  
SATA 6Gb/s

## TPM

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

## Power Supply

1+1 800W (240V) 80 PLUS Platinum redundant power supplies

AC Input:  
- 100-240V~/ 10-5A, 50-60Hz

DC Input:  
- 240Vdc/ 4A

DC Output:  
- Max 800W/ 100-240V~ or 240Vdc Input  
+ 12V/ 65A  
+ 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

2 x 40x40x56mm (29,700rpm)  
3 x 40x40x56mm (32,000rpm)

## 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-C11  
1 x CPU heatsink  
1 x Mini-DP to D-Sub cable  
1 x GPU power cable (2x4pin to 2x2x4pin)  
1 x 2-Section Rail kit

## Part Numbers

- Barebone package: 6NR133C11MR000AAB1\*  
- Motherboard: 9MC13BL0NR-000  
- 2-Section Rail kit: 25HB2-3A0203-K0R  
- CPU heatsink: 25ST1-443300-S7R  
- M.2 heatsink: 12SP2-11000E-00R  
- Front panel board - CFP1010: 9CFP1010NR-00  
- Backplane board - CBP1045: 9CBP1045NR-00  
- Backplane board - CBP1047: 9CBP1047NR-00  
- Fan module: 25ST2-405623-A0R/25ST2-40562H-A0R  
- Riser card - CRSE016: 9CRSE01016NR-00  
- Mini-DP to D-Sub cable: 25CRN-200801-K1R  
- GPU power cable (8+8pin, PCIe): 25CRI-700004-G5R  
- Power supply: 25EPO-208009-F3S

## Optional parts:

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