

R282-3C2 (rev. 100)

3rd Gen. Intel® Xeon® Scalable DP Server System - 2U 12-Bay Gen4 NVMe | Application: Networking

- 3rd Gen. Intel® Xeon® Scalable Processors
- 8-Channel RDIMM/LRDIMM DDR4 per processor, 32 x DIMMs
- Supports Intel® Optane™ Persistent Memory 200 series
- Dual ROM Architecture supported
- Supports RAID SupremeRAID NVMe/NVMe-oF RAID Card
- Intel® C621A Chipset
- 2 x 1Gb/s LAN ports (Intel® I350-AM2)
- 1 x Dedicated management port
- 8 x 3.5" or 2.5" SATA/SAS hot-swappable HDD/SSD bays
- 4 x 3.5" or 2.5" SATA/SAS/Gen4 NVMe hot-swappable HDD/SSD bays
- 2 x 2.5" SATA/SAS hot-swappable HDD/SSD bays in rear side
- 8 x PCIe Gen4 expansion slots
- 1 x OCP 3.0 Gen4 x16 mezzanine slot
- 1 x OCP 2.0 Gen3 x8 mezzanine slot
- 1600W (240V) 80 PLUS Platinum redundant power supply



OVERVIEW SPECIFICATIONS SUPPORT RESOURCES BUY

Dimensions (WxHxD, mm)

2U
438 x 87.5 x 730

Motherboard

MR92-F51

CPU

3rd Generation Intel® Xeon® Scalable Processors
Intel® Xeon® Platinum Processor, Intel® Xeon® Gold Processor,
Intel® Xeon® Silver Processor
10nm technology, CPU TDP up to 270W

NOTE: If only 1 CPU is installed, some PCIe or memory functions might be unavailable

Socket

2 x LGA 4189
Socket P+

Chipset

Intel® C621A Chipset

Memory

32 x DIMM slots
DDR4 memory supported only
8-channel memory architecture per processor
RDIMM modules up to 128GB supported
LRDIMM modules up to 128GB supported
3DS RDIMM/LRDIMM modules up to 256GB supported
1.2V modules: 3200/2933/2666 MHz

LAN

2 x 1Gb/s LAN ports (Intel® I350-AM2)
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

Audio

N/A

Storage

8 x 3.5" or 2.5" SATA/SAS hot-swappable HDD/SSD bays
4 x 3.5" or 2.5" SATA/SAS/Gen4 NVMe hot-swappable HDD/SSD bays
2 x 2.5" SATA/SAS hot-swappable HDD/SSD bays in rear side

SAS card is required for SAS devices support

SAS

N/A

RAID

Intel® SATA RAID 0, 1, 10, 5

Peripheral Drives

N/A

Expansion Slots

Riser Card CRS2033:

- 1 x PCIe x16 slot (Gen4 x16), Full height half-length
- 2 x PCIe x8 slots (Gen4 x8), Full height half-length

Riser Card CRS2137:

- 1 x PCIe x16 slot (Gen4 x16 or x8), Full height half-length
- 1 x PCIe x8 slots (Gen4 x8 or x8), Full height half-length
- 1 x PCIe x16 slot (Gen4 x16 or x8), shared with OCP 2.0, Full height half-length

Riser Card CRS2027:

- 2 x PCIe x8 slots (Gen4 x8), Low profile half-length

1 x OCP 3.0 mezzanine slot with PCIe Gen4 x16 bandwidth from CPU_0
Supported NCSI function

1 x OCP 2.0 mezzanine slot with PCIe Gen3 x8 bandwidth from CPU_1
Supported NCSI function

Internal I/O

- 2 x CPU fan headers
- 1 x USB 3.0 header
- 1 x TPM header
- 1 x VROC connector
- 1 x Front panel header
- 1 x HDD back plane board header
- 1 x IPMB connector
- 1 x Clear CMOS jumper
- 1 x BIOS recovery switch

Front I/O

- 2 x USB 3.0
- 1 x Power button with LED
- 1 x ID button with LED
- 1 x Reset button
- 1 x NMI button
- 1 x System status LED
- 1 x HDD activity LED
- 2 x LAN activity LEDs

Rear I/O

- 2 x USB 3.0
- 1 x VGA
- 2 x RJ45
- 1 x MLAN
- 1 x ID button with LED

Backplane I/O

Front side_CBP20CS: 8 x SATA/SAS and 4 x SATA/SAS/NVMe ports
Rear side_CBP202: 2 x SATA ports
Bandwidth: PCIe Gen4 x4 or SATA 6Gb/s or SAS 12Gb/s per port

TPM

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

Power Supply

2 x 1600W redundant PSUs
80 PLUS Platinum

AC Input:
- 100-120V~/ 12A, 50-60Hz
- 200-240V~/ 10.0A, 50-60Hz

DC Input:
- 240Vdc/ 10A

DC Output:
- Max 1000W/ 100-120V~
+ 12V/ 81.5A
+ 12Vsb/ 2.5A
- Max 1600W/ 200-240V~ or 240Vdc Input
+ 12V/ 133A
+ 12Vsb/ 2.5A

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
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 Server 2016
Windows Server 2019
[Windows Server 2022](#)

Red Hat Enterprise Linux 7.9 (x64) or later
Red Hat Enterprise Linux 8.2 (x64) or later
Red Hat Enterprise Linux 9.0 (x64) or later

SUSE Linux Enterprise Server 12 SP5 (x64) or later
SUSE Linux Enterprise Server 15 SP2 (x64) or later

Ubuntu 20.04 LTS (x64) or later
Ubuntu 22.04 LTS (x64) or later

VMware ESXi 6.7 Update3 P03 or later
VMware ESXi 7.0 Update2 or later
VMware ESXi 8.0 or later

Citrix Hypervisor 8.2.0 or later

System Fans

4 x 80x80x38mm (16,300rpm)