ayal

Server

AYAL - AY-2750

“Enterprise-Grade Server Built for Performance, Reliability and Scale.”



Intel® Xeon® / AMD EPYC® Platform

Enterprise Storage (HDD / SSD / NVMe)

High-Capacity Memory (ECC RDIMM)

High-Speed Networking (10GbE / 1GbE)

Accelerated Computing (NVIDIA® / AMD®)

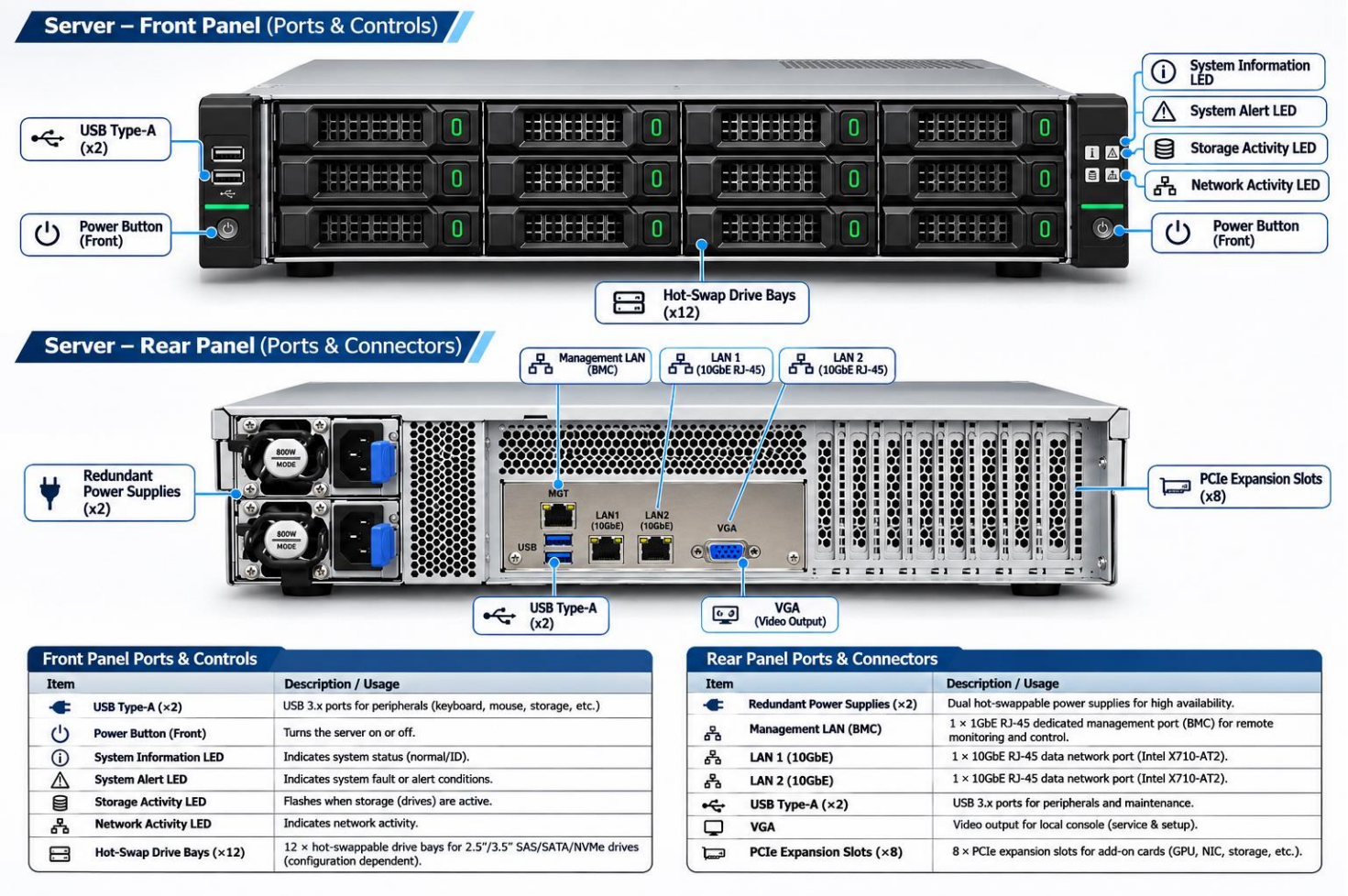
High Performance

Enterprise Reliability

Scalable & Flexible

Data Center Ready

OVERVIEW



Front Panel Ports & Controls

Item	Description / Usage
USB Type-A (×2)	USB 3.x ports for peripherals (keyboard, mouse, storage, etc.)
Power Button (Front)	Turns the server on or off.
System Information LED	Indicates system status (normal/ID).
System Alert LED	Indicates system fault or alert conditions.
Storage Activity LED	Flashes when storage (drives) are active.
Network Activity LED	Indicates network activity.
Hot-Swap Drive Bays (×12)	12 × hot-swappable drive bays for 2.5"/3.5" SAS/SATA/NVMe drives (configuration dependent).

Rear Panel Ports & Connectors

Item	Description / Usage
Redundant Power Supplies (×2)	Dual hot-swappable power supplies for high availability.
Management LAN (BMC)	1 × 1GbE RJ-45 dedicated management port (BMC) for remote monitoring and control.
LAN 1 (10GbE)	1 × 10GbE RJ-45 data network port (Intel X710-AT2).
LAN 2 (10GbE)	1 × 10GbE RJ-45 data network port (Intel X710-AT2).
USB Type-A (×2)	USB 3.x ports for peripherals and maintenance.
VGA	Video output for local console (service & setup).
PCIe Expansion Slots (×8)	8 × PCIe expansion slots for add-on cards (GPU, NIC, storage, etc.).

Processor

Processor Family

AMD EPYC™ 9005 / 9004 Series and AMD EPYC™ 97x4 Series processors and Intel Xeon Processor

Operating System

OS Category	Supported Operating Systems
Windows Server	2019, 2022, 2025 (64-bit)
Linux – EPYC 9004	Red Hat Enterprise Linux 8.6, 8.7, 9.0, 9.1; SUSE SLES 15.4; Ubuntu 20.04.5, 22.04, 22.10
Linux – EPYC 9005	Red Hat Enterprise Linux 8.10, 9.4; SUSE SLES 15.6; Ubuntu 22.04.5, 24.04.2
Virtualization – EPYC 9004	VMware ESXi 8.0
Virtualization – EPYC 9005	VMware ESXi 9.0

Graphics

Graphics Specification	Details
Graphics	ASPEED AST2600 BMC Graphics
Type	Integrated Server Management Graphics
Memory	Dedicated BMC graphics memory (up to 64 MB)

Monitor Support

Specification	Intel	AMD
Graphics Controller	Integrated graphics (CPU-dependent) or discrete GPU	ASPEED AST2600 BMC graphics or discrete GPU
Display Output	Motherboard-dependent (HDMI, DisplayPort, VGA)	1 × VGA (DB-15)
Maximum Resolution	Depends on processor and motherboard	1920 × 1200 @ 60 Hz (VGA)
Multi-Monitor Support	Depends on motherboard and GPU	Requires a discrete GPU for multiple displays

Chipset

Chipset

Intel® SoC (System on Chip) platform and AMD EPYC SoC

Memory

Max Memory

Up to 8 TB 16 X DDR5

Memory Slots

16 DIMM slots

Memory Type

DDR5 ECC Registered (RDIMM / RDIMM-3DS, Up to 6400 MT/s

Notes:

The max memory is based on the test results with current ayal® memory offerings.

Storage

Storage Specification	Intel	AMD (TURIN2D16-2T)
SATA Ports	Motherboard-dependent	Up to 16 × SATA 6 Gb/s
M.2 Slot	Motherboard-dependent	1 × M.2 PCIe 4.0 x4 (2280/22110)
MCIO Connectors	Motherboard-dependent	3 × MCIO (2 support SATA or PCIe; 1 supports PCIe)
NVMe Support	Motherboard-dependent	PCIe NVMe SSD support
SAS Support	Requires compatible controller	Requires compatible controller
Storage Expansion	Motherboard-dependent	PCIe expansion slots and MCIO connectors

Notes:

The max capacity of each disk type is based on the test results with current ayal® storage offerings.

Removable Storage

Optical

Available based on model

Card Reader

Card reader x 1

Multi-Media

Audio Chip

High Definition (HD) Audio, Realtek® ALC233-CG code

Speakers

External speakers supported

Microphone

External microphone supported

Camera

Optional external webcam

Display

External Display supported

Power Supply

2 × 550W redundant, hot-swappable power supply units (1100W total capacity) with dual AC inputs, providing high availability, efficient power delivery, and uninterrupted operation during PSU failure or replacement.

DESIGN

Input Device

Keyboard

- Keyboard (USB connector), black
- Keyboard (USB connector), white
- Wireless Keyboard,
- No keyboard

Mouse

- Keyboard (USB connector), black
- Keyboard (USB connector), white
- Wireless Keyboard,
- No keyboard

CONNECTIVITY

Network

Network: 2 × 10GbE RJ-45 LAN ports (Intel X710-AT2) + 1 × 1GbE dedicated BMC management LAN.

Ports

Front Panel Ports

1. **Power Button**
2. **USB Type-A Port × 2**
3. **USB Type-C Port × 1**
4. **3.5 mm Audio Jack × 2**

Rear Panel Ports

1. **USB Type-A Port × 2**
2. **10GbE RJ-45 LAN Port × 2**
3. **1GbE RJ-45 BMC Management LAN Port × 1**

4. VGA (DB-15) Port × 1
5. PCIe Expansion Slots × 8
6. Redundant Power Supply Connectors × 2

SECURITY & PRIVACY

Security

- **Trusted Platform Module (TPM) support**
- **Secure Boot support**
- **BIOS-level password protection**
- **BMC/IPMI remote management security**
- **Hardware-based system monitoring and access control**
- **ECC memory error detection and correction**
- **Chassis intrusion detection (if supported by the chassis)**

Notes:

The BIOS simulator is just for reference. Default settings and some options may vary depending on the hardware, operating system and BIOS version.

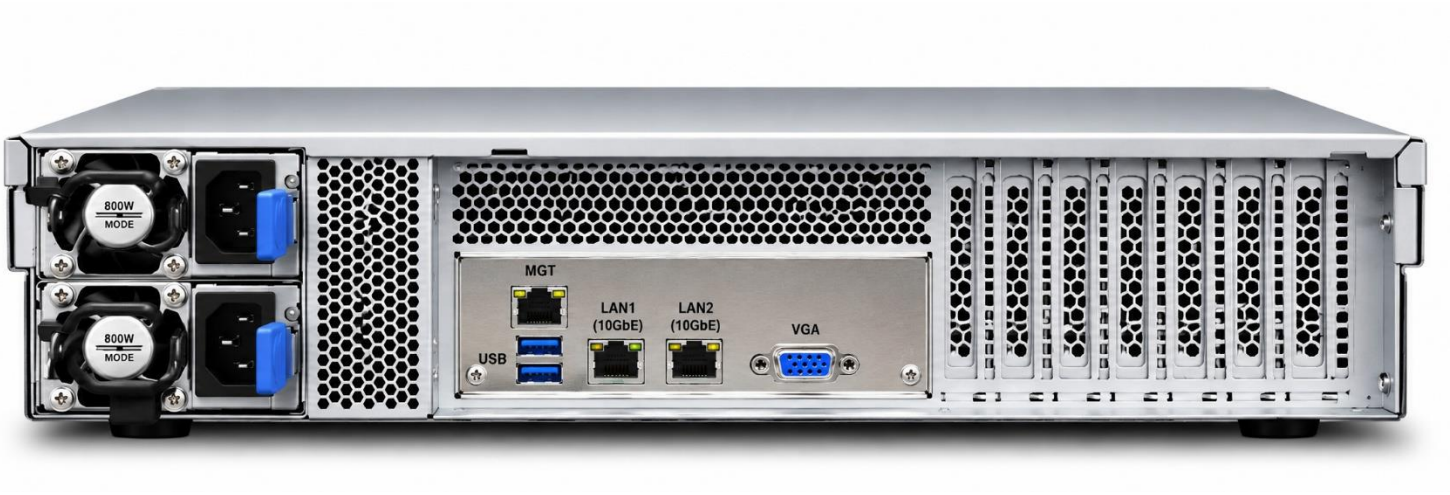
SERVICE

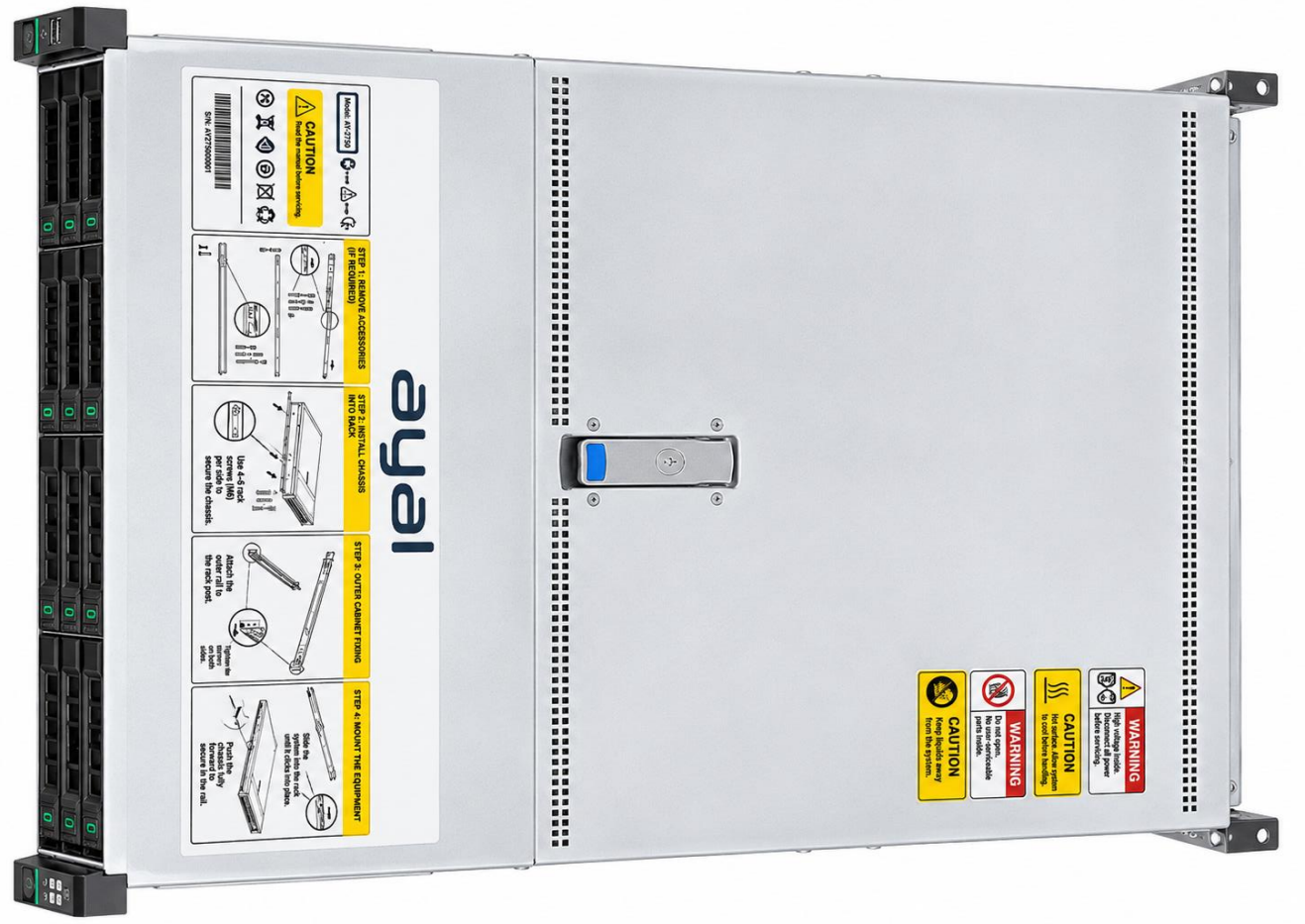
Warranty

Base Warranty**

- 1-year mail-in service
- 1-year courier or carry-in service
- 1-year limited onsite service
- 2-year courier or carry-in service
- 3-year courier or carry-in service




800W
MODE
800W
MODE
MGT
LAN1
(10GbE)
LAN2
(10GbE)
VGA
USB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CAUTION
STEP 1: REMOVE ACCESSORIES
(IF REQUIRED)
STEP 2: INSTALL CHASSIS
INTO RACK
STEP 3: OUTER CABINET FIXING
STEP 4: MOUNT THE EQUIPMENT
WARNING
CAUTION
WARNING
CAUTION