TECHNICAL SPECIFICATIONS: AYAL - AY - 2750 - ENTERPRISE CLASS SERVER

Component / Feature	Specification Details
Processor Platform	• **AMD Configurations:** AMD EPYC™ 9005 / 9004 Series and AMD EPYC™ 97x4 Series processors • **Intel Configurations:** Intel® Xeon® Processors
Operating System	• **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 Support	• **AMD EPYC 9004:** VMware ESXi 8.0 • **AMD EPYC 9005:** VMware ESXi 9.0
Chipset	Intel® SoC (System on Chip) platform and AMD EPYC SoC
System Memory	• **Max Capacity:** Up to **8 TB** via 16x DDR5 DIMM slots • **Memory Type:** DDR5 ECC Registered (RDIMM / RDIMM-3DS) • **Memory Speed:** Up to 6400 MT/s
Frontend Storage Bays	12x Hot-Swappable Drive Bays supporting 2.5" / 3.5" SAS, SATA, or NVMe configurations
Internal Motherboard Storage	• **Intel Configurations:** Motherboard-dependent expansion layout • **AMD Configurations (TURIN2D16-2T):** Up to 16x SATA 6 Gb/s ports, 1x M.2 PCIe 4.0 x4 (2280/22110) slot, and 3x MCIO Connectors (2 supporting SATA/PCIe, 1 supporting PCIe)
Graphics & Management	• **BMC Controller:** Integrated ASPEED AST2600 BMC Graphics • **Memory:** Dedicated 64 MB BMC graphics memory • **Max Video Output Resolution:** 1920 x 1200 @ 60 Hz via rear VGA port
High-Speed Networking	• **Data LAN:** 2x 10GbE RJ-45 ports driven by an Intel X710-AT2 data network controller • **Management LAN:** 1x 1GbE dedicated RJ-45 BMC remote management port
PCIe Expansion Slots	8x PCIe expansion slots available for add-on hardware (GPUs, NICs, storage controllers)
Front I/O Interface	2x USB Type-A ports, 1x USB Type-C port, 2x 3.5 mm Audio Jacks, Power Button, and diagnostic system LEDs
Rear I/O Interface	2x USB Type-A ports, 2x 10GbE RJ-45 LAN data ports, 1x 1GbE RJ-45 BMC Management LAN port, 1x VGA (DB-15) port, 8x PCIe Expansion Slots, and 2x Redundant Power Supply Connectors
Power Supply System	2x 550W redundant, hot-swappable power supply units (1100W total capacity) with dual AC inputs for high availability
Security & Privacy	Firmware/Hardware Trusted Platform Module (TPM) support, Secure Boot support, BIOS-level password protection, BMC/IPMI remote management security, hardware-based system monitoring/access control, ECC memory error detection/correction, and chassis intrusion detection support
Multimedia & Removable	High Definition (HD) Audio (Realtek® ALC233-CG codec), external speaker/microphone/webcam support, 1x Card reader, and optional optical drive configuration
Base Warranty Options	Scalable commercial baseline coverages including 1-year mail-in, 1 or 2-year courier/carry-in, 1-year limited onsite, or a comprehensive 3-year courier or carry-in hardware service