



POLYSTACK
TECHNOLOGIES



IronPeakTM

ENTERPRISE-GRADE STORAGE SERVER

IP-AR-823-GBD



Enterprise-Grade, High-Density Storage Built for AI, HPC, and Long-Term Data Retention

The Polystack IronPeakTM Highly Scalable Storage Server is engineered to deliver compute and storage capacity with exceptional reliability, and cost-efficiency for AI, HPC, enterprise backup, media repositories, and long-term archival workloads. Designed to manage rapidly growing datasets, it combines massive compute and high-density storage architecture with intelligent software-defined data protection and performance optimization.

EFFICIENCY MEETS POWER

- ▶ **Advanced AMD EPYC Processors**
Up to 64 cores with Dual AMD EPYCTM 7003 Series Processors, delivering balanced performance and power efficiency for any work load.
- ▶ **Exceptional Memory Capacity**
Supports up to 2TB of DDR4 RDIMMs memory, ensuring fast data access and unparalleled performance for memory-intensive applications.

BUILT TO EMPOWER MODERN ENTERPRISES

- ▶ **Flexible Storage and Expansion**
 - Support for a range of storage options, including SATA, SAS and NVMe drives, to meet the demands of complex data operations.
 - Expandability with PCIe Gen5 slots ensures readiness for future technology upgrades.
- ▶ **Robust Design for Enterprise Applications**
 - Redundant hot-swappable power supplies ensures reliable operations and minimize downtime.
 - Optimized airflow and thermal management for sustainable high performance.

Scalable Data Storage Support !

Ideal for :

- ▶ Enterprise Workload Standardization.
- ▶ Virtualization and Cloud Computing.
- ▶ Data Management



TECHNICAL SPECIFICATION

FEATURES	PARAMETER	DESCRIPTION
Processor	Supported CPU Series	Supports Dual AMD EPYC™ 7003 Series Processors
	Processor Configuration	Min 8 Core – Max 64 Core (Up to 4.10GHz)
	Thermal Design Power (TDP)	Up to 280W TDP , L3 CACHE - 768MB
Chipset	System on Chip	System on Chip
Memory	DIMM Slots	16x DIMM slots
	DIMM type	DDR4 RDIMM/LRDIMM
	Memory Capacity	16 GB / 32 GB / 64 GB / 128 GB Memory Module, Maximum up to 2TB capacity
	Memory Speed	Up to 3200/ 2933 MHz
Storage	Front Drive Bays	2.5" / 3.5" SAS / SATA / NVMe HotSwap -12 Dedicated (Option 1) 2.5" / 3.5" SAS / SATA HotSwap -12 Expandable (Option 2)
	Internal Storage	1 × M.2 PCIe, 3 x SlimSAS 4i connectors with SATA interface
	RAID Support	RAID controllers supports RAID 0/1/5/6/10/50/60 Cache Vault Power Module (optional)
Expansion	PCIe Expansion	3 x PCIe Gen5 x16 2 x PCIe Gen5 x8
I/O Interfaces	Rear I/O	2 x USB 3.0 ports (Type-A) 1 x VGA port 1 x Serial port 2 x RJ45 port 1 x MLAN port 1 x ID button with LED
Video	BMC	Integrated in ASPEED® AST2600
Networking	LAN Connectivity	2 x 10Gb/s RJ45 Ethernet ports
	Management Network	Dedicated 10/100/1000 Management Ethernet port
	NIC Card	PCIe based Network Interface Card Support(Optional)
Power Supply	Power Configuration	1+1 Redundant CRPS
	Input Voltage	110 - 240V AC
	Maximum Output	800/1200/1600/2000/2700 W 2U CRPS 1+1 (Option 1) 800/1200/2700 W 2U CRPS 1+1 (Option 2)
	Power Efficiency	80 PLUS Platinum Certified
Cooling System	System Cooling	Standard 4 X 8 CM Hot Swap Middle fan
Platform Management	Secure Remote Management	Remote Power Control, Remote Power Cycling, Secure remote management over LAN/WAN through dedicated Gigabit Management Port with SSL encryption

FEATURES	PARAMETER	DESCRIPTION
Platform Management	Monitoring	Real-time monitoring of processors, memory, fans, temperatures, voltages and power consumption
	Management Protocols	HTML5 Web Interface, KVM Remote Access, IPMI 2.0 and Redfish API
	Lifecycle Management	Remote firmware updates, diagnostics, Server health monitoring and Server event logging
Platform Management	Virtual Media Licensing	Virtual Media support
	Authentication Services	Supports LDAP, Microsoft Active Directory (AD) and RADIUS authentication for centralized user access management
	Dashboard	Unified web-based dashboard providing at-a-glance server status
	Sensor Data	monitoring hardware sensor values including temperature, voltage and fan speed trends
	System event logging	SEL (System Event Log) stored in linear or circular buffer supports export, clear and timestamped audit trail of all hardware and management events
	Directory & authentication	LDAP, Active Directory and RADIUS support for centralised user authentication, role-based access control and integration services
	Configuration management	Backup and restore of BMC / server configuration
		SSL Settings
		SMTP Settings
Security	Platform Security	Secure Boot (Firmware and BIOS Level Security)
		System Firewall
	System Recovery	BIOS Recovery and Firmware Rollback Protection
Operating Environment	Operating Temperature	10°C to 40°C
	Operating humidity	8% ~ 80%
	Storage Temperature	-40°C to 60°C
	Operating Humidity	20% to 95% (Non-condensing)
Operating System Support	Operating System Support	Windows Server 2016, 2019, 2022. Ubuntu Server LTS
	Enterprise Linux	Red Hat Enterprise Linux (RHEL)
	Hypervisor Support	VMware ESXi, Proxmox, IronCore
Physical Characteristics	Chassis Form Factor	2U Rack Mount Chassis with Rail Kit Included
	Dimensions (D × W × H)	655 * 435 * 90 mm (Option 1) 680 * 436 * 88.1mm (Option 2)



POLYSTACK
TECHNOLOGIES



Adaptability Meets Performance in Every Workload...



APPLICATIONS



**Artificial
Intelligence**



**High Performance
Computing**



**Data
Centers**



**Cloud
Computing**



Polystack Technologies Pvt. Ltd.
1612, Office Tower, Logix City Centre
Sector-32, Noida, UP- 201301



sales@polystack.tech



www.polystack.tech



polystack.tech