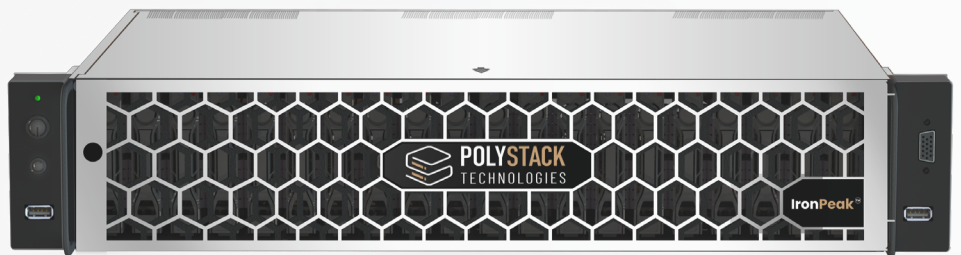# IronPeak™

Revolutionize Efficiency and Adaptability
for Modern Enterprises.

IP-AR-725-G

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Transform Your Business with Scalable, Flexible and High-Performance Computing Solutions

The IP-AR-725-G is a versatile and reliable server designed to empower enterprises with exceptional computational capabilities. Built for organizations that demand performance and adaptability, this 2U rack server provides the flexibility and power required to handle diverse workloads seamlessly.

EFFICIENCY MEETS POWER

▶ **Advanced AMD EPYC Processors**
Up to 192 cores with dual AMD EPYC 9005 Series processors, delivering balanced performance and power efficiency for any workload.

▶ **Exceptional Memory Capacity**
Supports up to 12TB of DDR5 RDIMMs or LRDIMMs 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 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.

• TPM 2.0 support (optional) for enhanced security.

Scalable Workload Support !

Ideal for :

▶ Database Management and Analytics.

▶ Enterprise Workload Standardization.

▶ Virtualization and Cloud Computing.

▶ Multi-tenant Infrastructure.

✔RoHS

MAKE IN INDIA

TECHNICAL SPECIFICATION

FEATURES	PARAMETER	DESCRIPTION
Processor	Supported CPU Series	Supports up to 2 processors of AMD EPYC 9005 series (Generation 5)
		Min 8 Core – Max 192 Core per Processor (Boost clock Up to 5GHz)
	Thermal Design Power (TDP) wattage	Up to 500W TDP, L3 CACHE - 512MB
Chipset	AMD	AMD EPYC™ TURIN
Front hard drive	Storage	Supports 24 x 2.5" drives
		(SATA Per port 7.68TB @ 6Gb/s)
		(NVMe per port 30.72TB) (M.2 per port 1.92TB)
		16 SATA + 8 NVMe / 24NVMe / 14 NVMe + 8 SATA
		24 – SATA with RAID CARD Support
		2 SLOTS of x1 PCIe Gen3 M.2 + 1 SLOT of x4 PCIe Gen3 M.2
Dimensions	W x H x D (mm)/Weight	450 x 88 x 780 / 35KG
BMC chip	ASIC	AST2600
Memory	Max DIMM slots	1 DIMMs/CH, 12 CH/CPU, Total 24 DIMMs
	DIMM type	DDR5 RDIMMs or LRDIMMs
	Memory Capacity	16/32/64/128/256/512 GB, up to total 12TB capacity
	Memory Speed	Support upto 6400 MHz
	Memory Voltage	1.1V
External port & PCIe	Front I/O	Front Port: 1 VGA, 2 USB 3.2 Gen1
	Rear I/O	Rear: 1 MINI DP, 1 COM port, 2 USB3.2 Gen1, 1 management network
	PCIe	PCIe expansion slots:
		• 2 PCIe Gen5.0 full-height slots
		• 1 PCIe Gen5.0 full-height Half Length slot
		• OCP slot: 1 PCIe 3.0 x16, Mezzanine slot
Networking	Ethernet	1G*1 management network port On-board 1G*1 onboard LOM
	OCP 3.0	1 1/10/25/40/100G network port with OCP 3.0 add-on card
DC_SCM	Rear I/O	RJ45 1G 1 Port *1,Mini Display port, Micro USB Type-C, UID button with integrated LED,
	ROT Module	• I2C/I3C/GPIO connectivity to 'host Node CPUs' and BMC/CMC
		• Runtime SPI and I2C/SMBus monitoring and filtering
	Storage	• M.2 2230 M-Key
		• 1Micro-SD storage device, connected to BMC/CMC
Display	LCD Display	* Supports Post code debug through on-board LCD display
External Cards	GPU	Up to 3x double width 350W GPU and Up to 8x single width 75W GPU
	RAID	Hardware RAID flash cache; HBAs
	NIC	X4, X8 and X16 FHHL and HHHL NIC support, Rj45 - 1G & 10G – Maximum 4 port support
		SFP+ - 10Gb/s Per Port , QSFP56 - 200Gb/s Per Port

FEATURES	PARAMETER	DESCRIPTION
Drive Control	Backplane	• U.2/U.3 Based connector for drive insertion
		• Hot swappable
		• LED management using UBM controller
Power Supply	Redundancy	1+1
	Input Range	Full range AC (100 - 240 VAC)
	Output Watts	2700W/3200W
	Efficiency	Titanium
Chassis	Form Factor	2U Rack Mountable
BIOS/BMC	BRAND	AMI/ OpenBmc
OS	OS Supported	Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise Server, CentOS, Ubuntu
Security	TPM 2.0	TPM/TCM (optional),Locked upper cover of chassis
	ROT (Root of Trust)	NIST SP 800-193 (For platform firmware resilience (PFR))
Intelligent temp. control	Temperature control	FPGA Based PWM fan control
System Cooling	FAN	6 hot swap system 60x60mm fans,60W
Software	IronCore CNP, CNS and CNO - Powered by Rakuten	Compatible with Microsoft Windows Server, Red Hat Enterprise Linux, SUSE Linux Enterprise, CentOS, Ubuntu and Vmware
Operating Environment	Operating Temp	5ºC - 35ºC (indoor)
	Non-Operating Temp	-40ºC - 70ºC
Humidity	Operating relative humidity Non-operating relative humidity	20% - 80%
		10% - 95%
ROHS COMPLAINT	RoHS 6/6 Complaint	Yes

KEY DIFFERENTIATORS

- **Scalability Redefined:** Adapt to increasing workloads with ease.

- **Efficient Performance:** DDR5 memory and AMD EPYC processors for optimal energy usage.

- **Future-Ready Design:** PCIe Gen5 compatibility for next-gen upgrades.

- **Versatility at Its Core:** Ideal for a wide range of enterprise applications, from virtualization to database management.
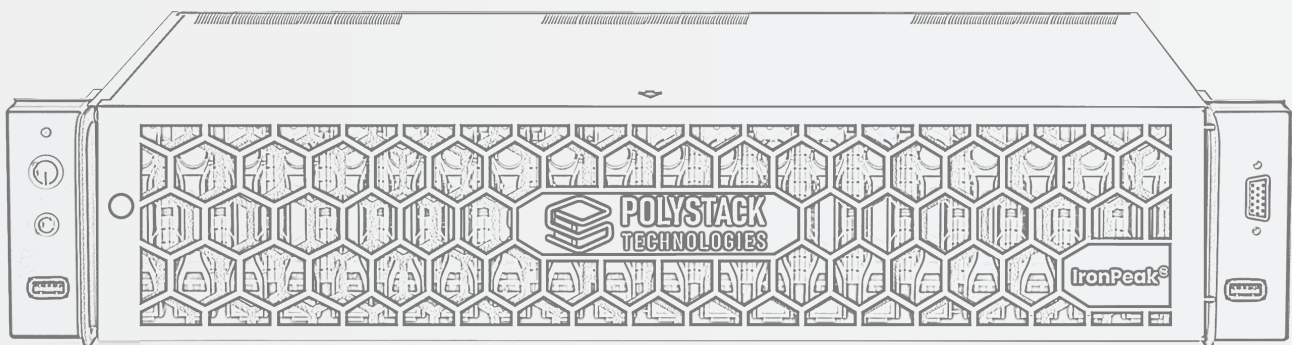
The **IP-AR-725-G** is the ideal solution for businesses that demand flexible, scalable, and powerful infrastructure to meet today's and tomorrow's challenges.

Adaptability Meets
Performance in Every Workload...

MANUFACTURED AT **VELANKANI**

APPLICATIONS

Artficial Intelligence

High Performance Computing

Data Centers

Cloud Computing