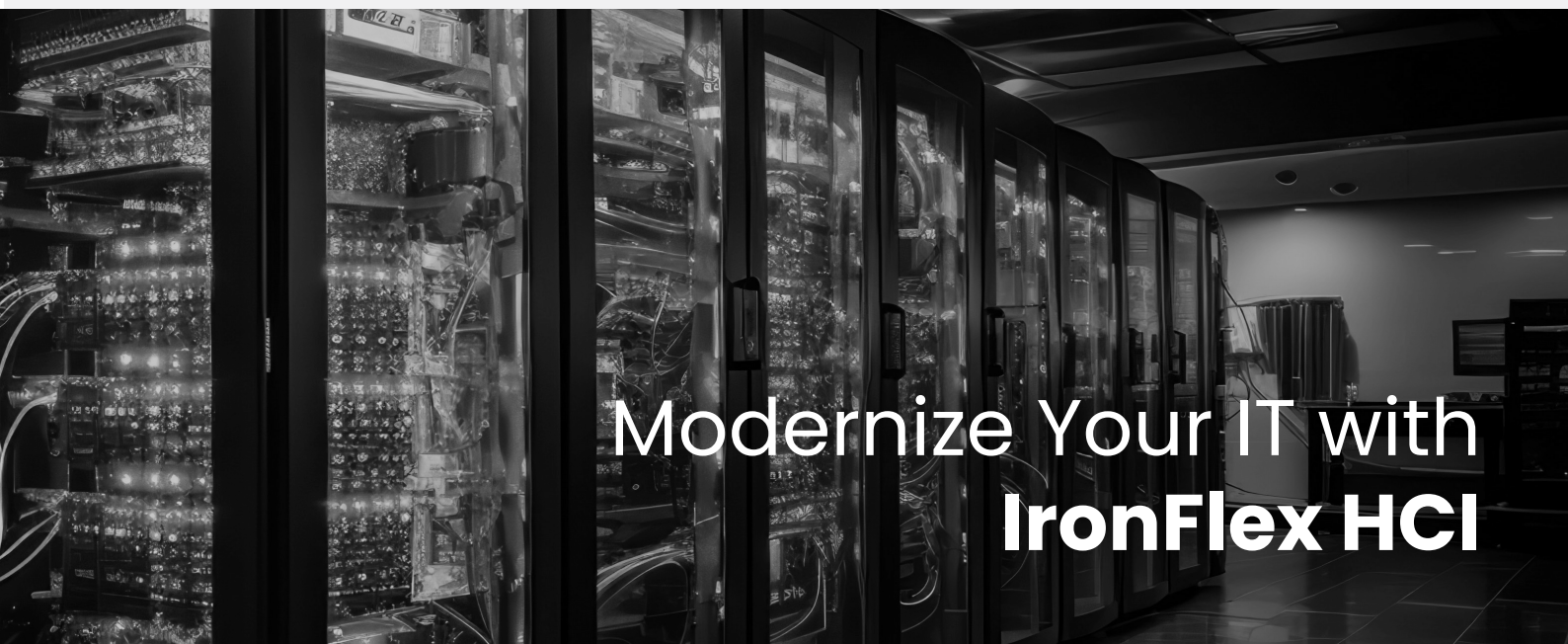


IronFlex HCI

The Next-Generation Hyperconverged Infrastructure



Modernize Your IT with
IronFlex HCI

IronFlex

Hyper-Converged Infrastructure

IronFlex combines compute, storage, and networking into a single, unified system, enabling data centers to scale effortlessly while enhancing performance, streamlining operations, and reducing complexity, all while ensuring higher efficiency and flexibility.

Speed
Scalability
Reliability



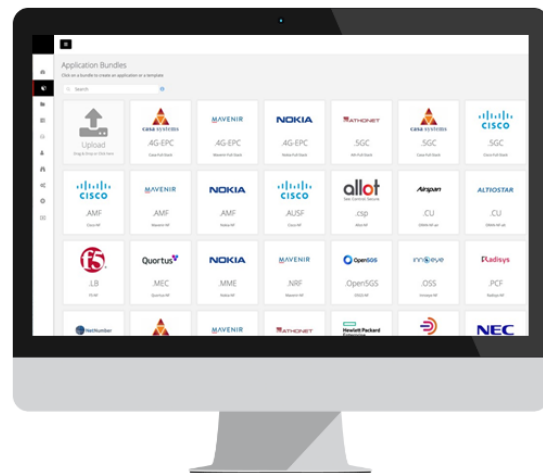
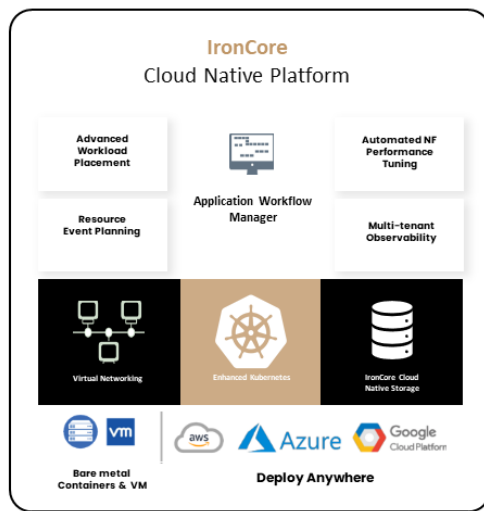
“ TRANSFORMING DATA CENTERS
– POWERED BY RAKUTEN CLOUD ”

IronFlex HCI based Cloud for VM
and Cloud-native workloads with
best-in-class TCO

IronFlex HCI Features

IronFlex powered by Rakuten Cloud unifies compute, storage, and networking, enabling scalable, high-performance & simplified data center operations.

IronCore Cloud Native Orchestrator



Optimized for Deployment & management of mission critical applications



Proven best-in-class performance versus competition



Multi-site, multi-environment orchestration with single pane of glass



Simplified application and network function delivery and life cycle management, integrated App Store



Common Platform to run containerized or virtualized Network functions & applications



Advanced data management including Snapshots, Clone, Replication, BCDR and encryption



Highly efficient Kubernetes cloud that with minimal footprint for edge use cases



Centralized Metal to Service orchestration of network services with automated LCM

Why IronFlex Stands Out ?



Unified Management

Single-pane-of-glass visibility for monitoring & control



Faster Deployment

Rapid setup & provisioning



Scalable & Flexible

Expand as your business grows



Data Protection

Built-in disaster recovery & backup.



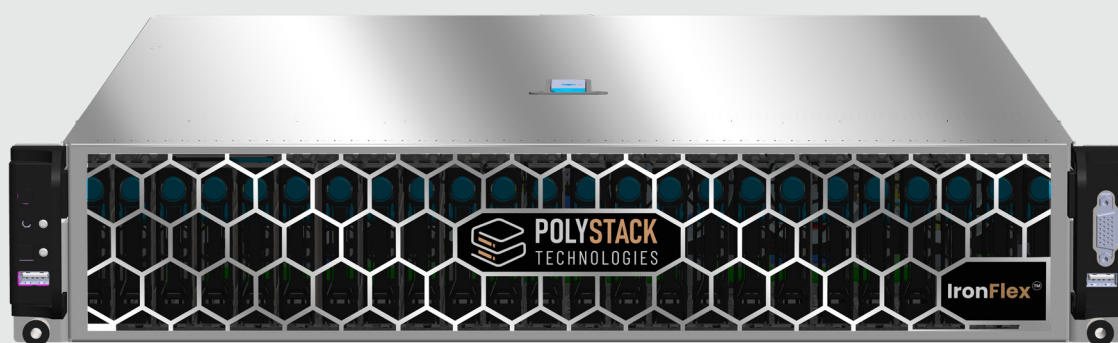
Cloud Integration

Seamless hybrid cloud support.



Secure Environment

Enterprise-grade security features.



Business Benefits

Lower TCO
(Capex & Opex
Savings)

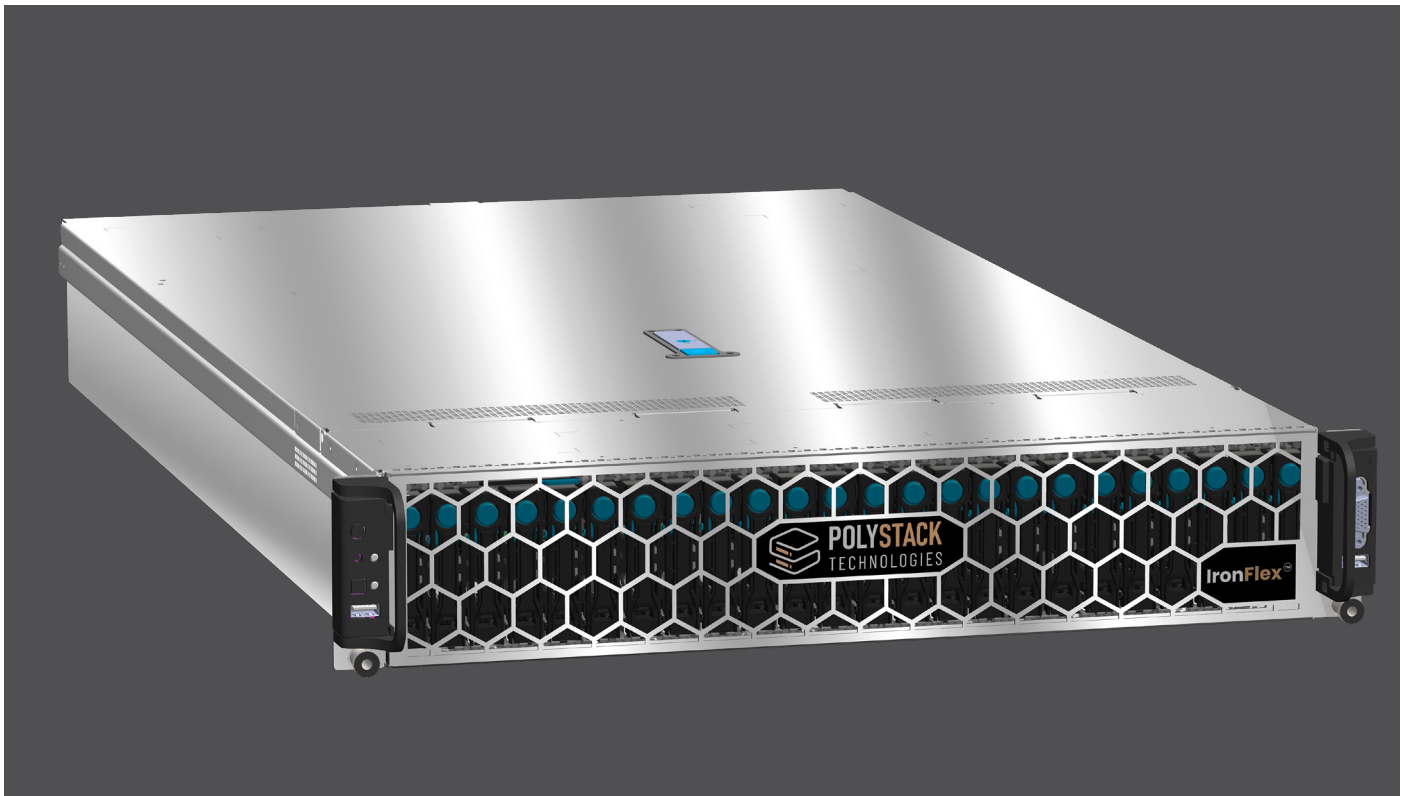
Better IOPS for
Performance-
Intensive
Applications

Flexible Licensing
& Multi-Tenancy
Support

Application-Aware
QoS for Optimized
Workloads

Use Cases & Industry Applications

Designed for Every Industry:



Enterprise IT

Run mission-critical applications with high reliability.



Healthcare

Secure, high-performance infrastructure for patient data.



Financial Services

Low-latency, high-security environment for transactions



Gaming & Media

High-speed processing & storage for real-time applications.



Cloud Service Providers

Multi-tenant architecture with flexible scaling



Manufacturing

Host applications for automated inspection and logging.

SKU's

HCI Series	Details	Specifications	Available SKUs
General Purpose - E Series	Entry Level	Single CPU/Dual CPU per host	IF-E4116
		CPU from 8 Core to 24 Core	IF-E4120
		Memory upto 256 GB per host	IF-E4124
B Series	Optimized Compute and Storage	Single CPU/Dual CPU per host	IF-B4128
		CPU from 24 core to 56 Core	IF-B4132
		Memory upto 1024 GB per host	IF-B4148
H Series	High Performance Use cases	Single CPU/Dual CPU per host	IF-HG4264
		CPU core 64 to 128 core	IF-HG4296
		Memory from 1024 to 6TB Per Host	IF-HG42128

IronFlex Specifications

FEATURES	PARAMETER	DESCRIPTION
Processor	Supported CPU Series	Supports up to 2 processors of AMD EPYC 9004 series (Generation 4)
		Min 16 Core – Max 128 Core per Processor (Boost clock Up to 3.7GHz)
	Thermal Design Power (TDP) wattage	Up to 400W TDP, L3 CACHE - 384MB
Chipset	AMD	AMD EPYC™ GENOA/BERGAMO
Front hard drive	Storage	Supports 24 x 2.5" drives
		(SATA Per port 1.92TB @ 6Gb/s)
		(NVMe per port 30.72TB) (M.2 per port 1.92TB)
		16 NVMe + 8 SATA
		24 – SATA with RAID CARD Support
		2 SLOTS M.2(SATA) + 1 SLOT M.2(NVMe)
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 GB, up to total 3TB capacity
	Memory Speed	Support upto 4800 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

FEATURES	PARAMETER	DESCRIPTION
Networking	Ethernet	1G*1 management network port On-board 1G*1 onboard LOM
	OCP 3.0	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
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	1600W/2200W/2700W
	Efficiency	Titanium
Chassis	Form Factor	2U Rack Mountable
BIOS/BMC	BRAND	AMI/ OpenBmc
OS	OS Supported	Red Hat Enterprise Linux, Rocky Linux
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 Cloud	Rakuten cloud compatible with Red Hat Enterprise Linux, Rocky Linux
Operating Environment	Operating Temp	5°C - 35°C (indoor)
	Non-Operating Temp	-40°C - 70°C
Humidity	Operating relative humidity Non-operating relative humidity	20% - 80%
		10% - 95%
ROHS COMPLAINT	RoHS 6/6 Complaint	Yes

Manufactured at
velankani



Get Started with IronFlex.

CONTACT

sales@polystack.tech
www.polystack.tech

