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**Welcome to Lyon, France  
and the 2026 Common Europe Congress**

**Bienvenue à Lyon, en France,  
et au Congrès de Common Europe 2026**




# Power11 Announcements

## Put AI into production



Lenez Jean-Manuel  
IBM Switzerland

	<p><i>Pre-Sales IBM Power Systems &amp; Hybrid-Cloud</i></p>
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16th June 2026

# Topics covered



- **Power11 overview**
- **Power11 Hardware announcement**
- **Whats new across Power11 Portfolio**
- **Put AI into production with Power11**

Lenez Jean-Manuel  
IBM Switzerland

	<i>Pre-Sales IBM Power Systems &amp; Hybrid-Cloud</i>
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# Power11 overview



# Power11 Timeline

## July 2025

## 4Q 2025

## 2026



### E1180

- Higher levels of availability and reliability
- New Quantum safe security enhancements
- Increased core / thread performance

### E1150

- Higher levels of availability and reliability
- Significant Throughput Increase
- New Quantum safe security enhancements
- Increased memory bandwidth



Spyre Tech Preview

### Spyre



- Enterprise Grade AI chip
- Competitive perf/watt
- Enables Generative AI capabilities

### S1124 and S1122

- Higher levels of availability and reliability
- Significant Throughput Increase
- New Quantum safe security enhancements
- Increased memory bandwidth



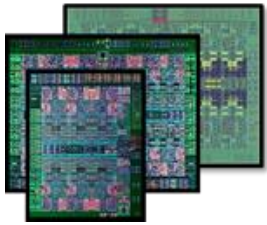
### S1112

- 1-Socket Optimized Server
- Retail Edge Server
- Reduced form factor (same as S1012)
- DDR5 DDIMM Memory support



# Power - Continuous System Innovation

## POWER8 Family



2014  
22nm

### Big Data Optimized

- Up to 12 Cores
- SMT8
- CAPI Acceleration
- High Bandwidth GPU Attach

## POWER9 Family

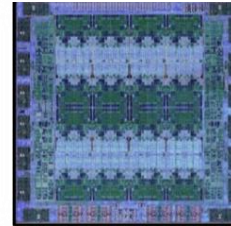


2017  
14nm

### Built for the Cognitive Era

- 12 / 24 core chips
- Slim or Fused core
- 4 / 8-way SMT
- 10MB L3 cache per core
- DDR4 RAM
- PCIe Gen4 on-chip
- CAPI 2.0, NVlink 2.0
- 25 GB/s interconnect

## Power10 Family

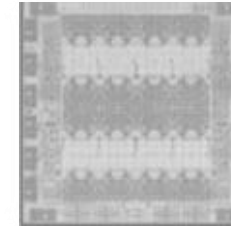


2021  
7nm

### Built for Hybrid Cloud

- Up to 15/24 cores per socket
- 4 / 8-way SMT
- AI-optimized ISA
- Energy efficiency focus
- HW enforced security
- PowerAXEON 2.0
- PCIe Gen5 on-chip
- Memory clustering

## Power11 Family

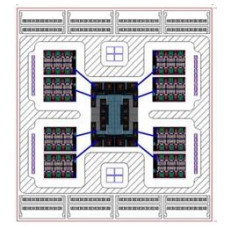


2025  
7nm

### Built for the AI Era

- Zero planned downtime
- Scalable and sustainable AI
- Energy Optimization
- Frictionless Hybrid Cloud
- Quantum Safe
- Best in class HANA TCO with SMT8

## Power Next



202x  
5nm

### Built for the future

- Advanced Multi-chip Packaging
- Larger L3 cache
- Reduced system latency
- Improvement in single thread performance
- Improvement in core performance

# Comparing Power11, Power10, and POWER9 CPUs

Characteristics	Power11	Power10	POWER9
Technology	7 nm	7 nm	14 nm
Die size	654 mm <sup>2</sup>	602 mm <sup>2</sup>	693 mm <sup>2</sup>
Processor module size	68.5 mm x 77.5 mm	68.5 mm x 77.5 mm	68.5 mm x 77.5 mm
Number of transistors	30 billion	18 billion	8 billion
Maximum cores	16	15	12
Maximum hardware threads per core	8	8	8
Maximum static frequency / high performance frequency range	3.8 - 4.4 GHz	3.75 - 4.15 GHz	3.9 - 4.0 GHz
L2 Cache per core	2048 KB	2048 KB	2048 KB
L3 Cache	8 MB of L3 cache per core with each core having access to the full 128 MB of L3 cache, on-chip high-efficiency SRAM	8 MB of L3 cache per core with each core having access to the full 120 MB of L3 cache, on-chip high-efficiency SRAM	10 MB of L3 cache per core with each core having access to the full 120 MB of L3 cache, on-chip eDRAM
Memory technology	DDR5 and DDR4*	DDR4 and DDR5**	DDR4 and DDR3
I/O bus	PCIe Gen 5	PCIe Gen 5	PCIe Gen 4

\* DDR4 only as migration from Power10 during same serial number upgrade

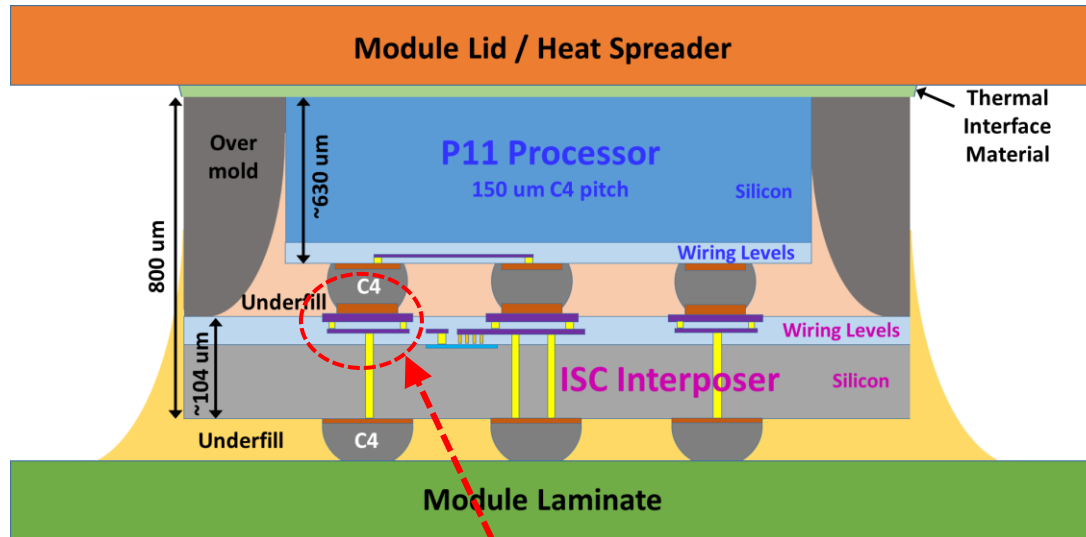
\*\* DDR5 support added after GA

# Power11 - Processor



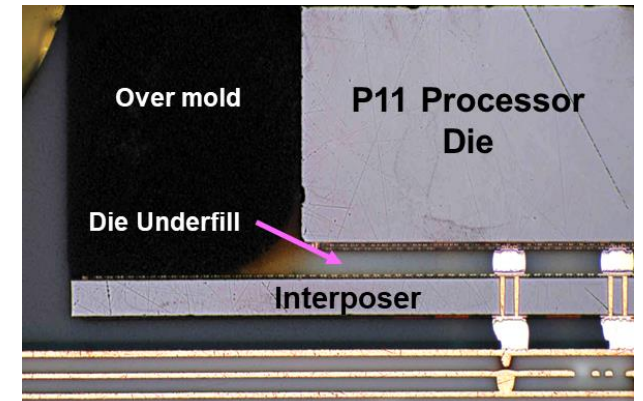
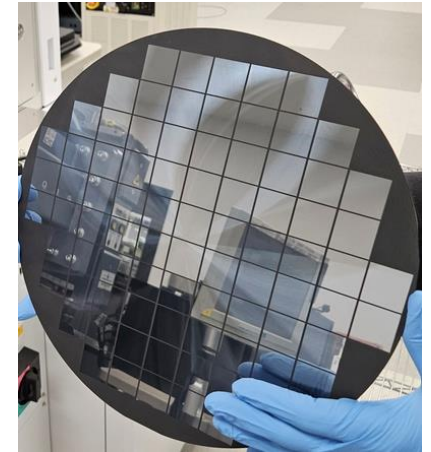
## 2.5D ISC (Integrated Stacked Capacitor) Structure

- P11 Processor stacked on ISC (Integrated Stacked Capacitor) Interposer by Samsung
- Integrating **capacitor cells directly into the interposer improves power stability** and reduces electrical noise, and enables a 50–100 MHz increase in processor frequency.



Capacitor cells wired directly into the power grid within the Interposer

P11 + ISC “Chip on Wafer”  
Samsung



Package Laminate

Hardware X-Section Image - EFK F/A team, T.W.

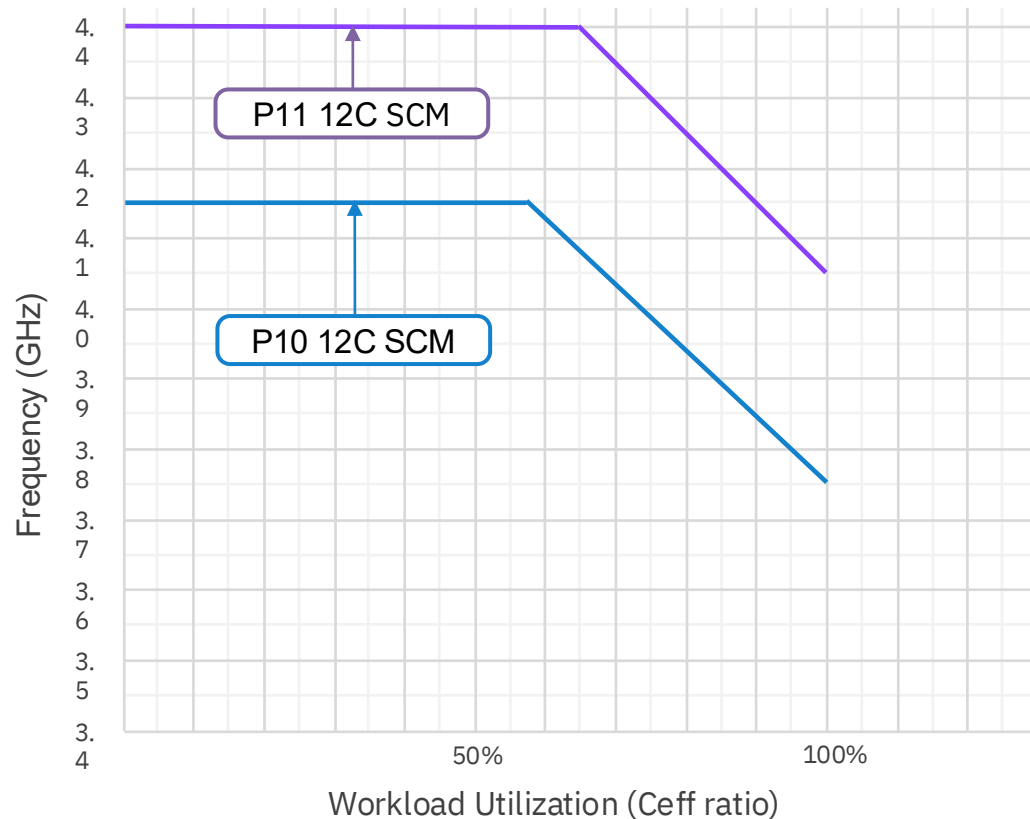
Based on Samsung iCube Si Interposer technology + DRAM / Capacitor experience

# Power11 – Frequency improvements example



Power11 doesn't just deliver a higher peak frequency, **it sustains higher frequencies across a broader range of workloads**, providing more consistent and predictable performance.

## 12-Core SCM – E1180

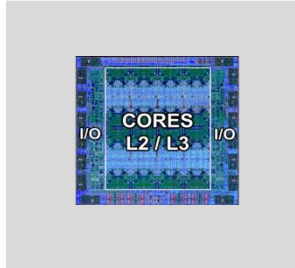


- Depending on workload utilization, **frequency increase** is between 6-8%
- **Less performance variability** with reduced range of frequency operation

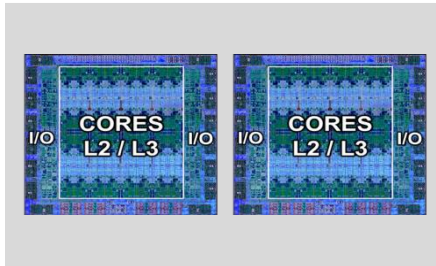
# Power11 - Processor Options



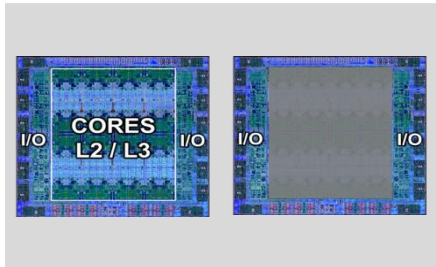
## Max performance



## Max core density



## Lower entry price



### SCM - Single-Chip Module for E1180

- Enables highest frequencies and best core performance
- Provides up to 16 cores per socket (10/12/16 cores)
- 16 OMI Memory channels
- 32 PCIe lanes

### DCM - Dual-Chip Module for S1122/S1124/E1150

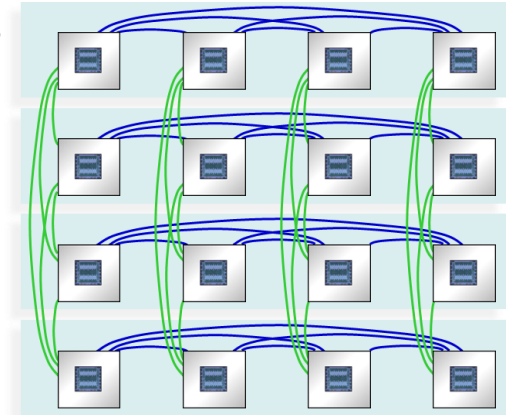
- Enables full range of offerings
- Provides up to 30 cores per socket (16/24/30 cores)
- 16 OMI Memory channels (8 per chip)
- 64 PCIe lanes

### eSCM – entry Single Chip Module for S1122

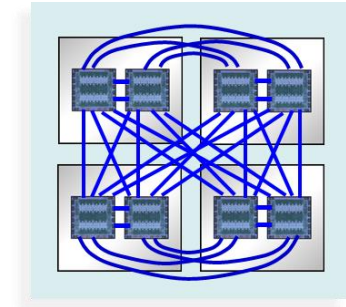
- One die with compute, memory and I/O, 2<sup>nd</sup> die adds I/O only
- Enables low cost processor offerings
- Up to 10 cores per socket (4/10 cores)
- 8 OMI Memory channels
- 64 PCIe lanes
- Available on S1122 - **S1112**

Up to  
16 SCM  
Sockets

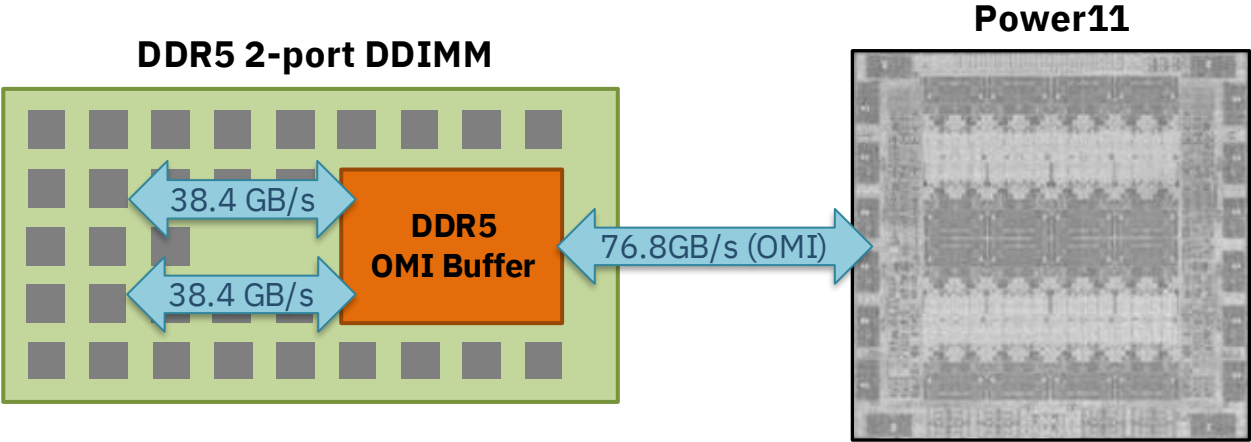
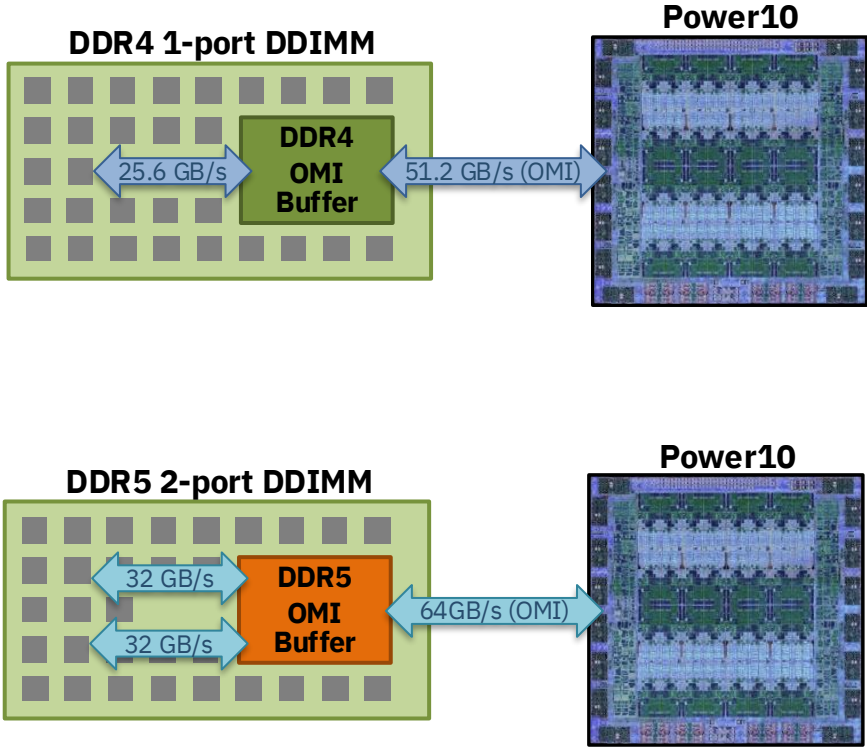
Vertical Full Connect



Up to  
4 DCM  
Sockets



# Enhanced DIMM Technology with Power11



1200 GB/s DRAM Bandwidth / Socket

**3X**

# Enhanced Memory Speeds for Power11

**E1080**



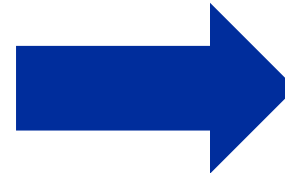
**DDR4 @ 3200 / 2933 MHz  
DDR5 @ 4000MHz**

**Up to 50% Increase for DDR5 Memory  
Up to 80% Increase from DDR4 Memory**

**E1050**



**DDR4 @ 3200 / 2933 MHz  
DDR5 @ 3200 MHz**

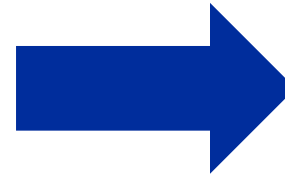


**E1150: DDR5 @ 4000 MHz**

**S1024**



**DDR4 @ 3200 / 2933 MHz  
DDR5 @ 3200 MHz**



**S1124: DDR5 @ 4800 / 4000 MHz**

**S1022**



**DDR4 @ 3200 / 2666 MHz  
DDR5 @ 3200 MHz**



**S1122: DDR5 @ 4800 MHz**

**S1012**



**DDR4 @ 3200 MHz**



**S1112: DDR5 @ 4000 MHz**

# Power11 Hardware announcement



# IBM Power S1112 - Balcones

Planned Announcement: 7/7/26 , Planned GA: 7/24/26

- It's a follow-on for **Bonnell** aka S1012, which originated from foreseen significant cost pressures in the lower-end portfolio line-up.
- The base system design comprehends a **1-socket processor slot with 2U** height and half-rack width.
- Support for two processor core counts: 4 and 10 cores in an **eSCM** module architecture
- It will be offered in two form factors:
  - **Rack-mounted** using a bare-metal sliding drawer with no point of failure
  - **Deskside-mounted** using a new tower design
  - Each form factor will have its own MTM



# Power11 One-Socket System: S1112<sup>1</sup>

Modernize Today, Secure What Matters, Enable What's Next

## System Overview

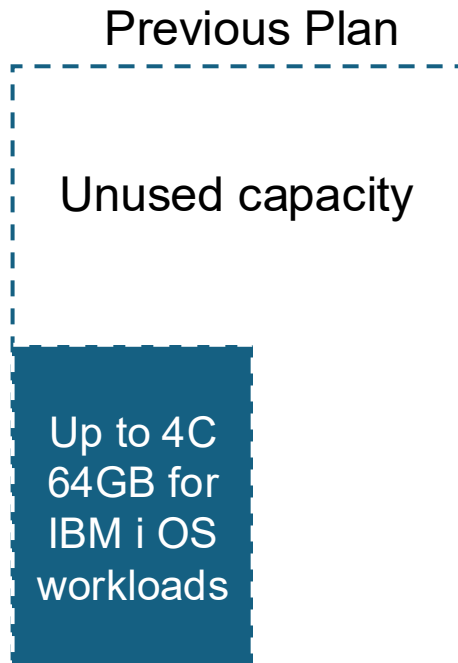
- **4 or 10 core** eSCM modules
- Up to **512GB**
- 4 DDR5 DDIMMs memory
- Up to **4 PCIe slots**
- Up to **4 NVMe drives**
- Up to **12.8 TB** total internal storage
- Support a **half I/O drawer**
- 2 form factors:
  - Rack-mounted (1/2 wide 2U)
  - Deskside-mounted



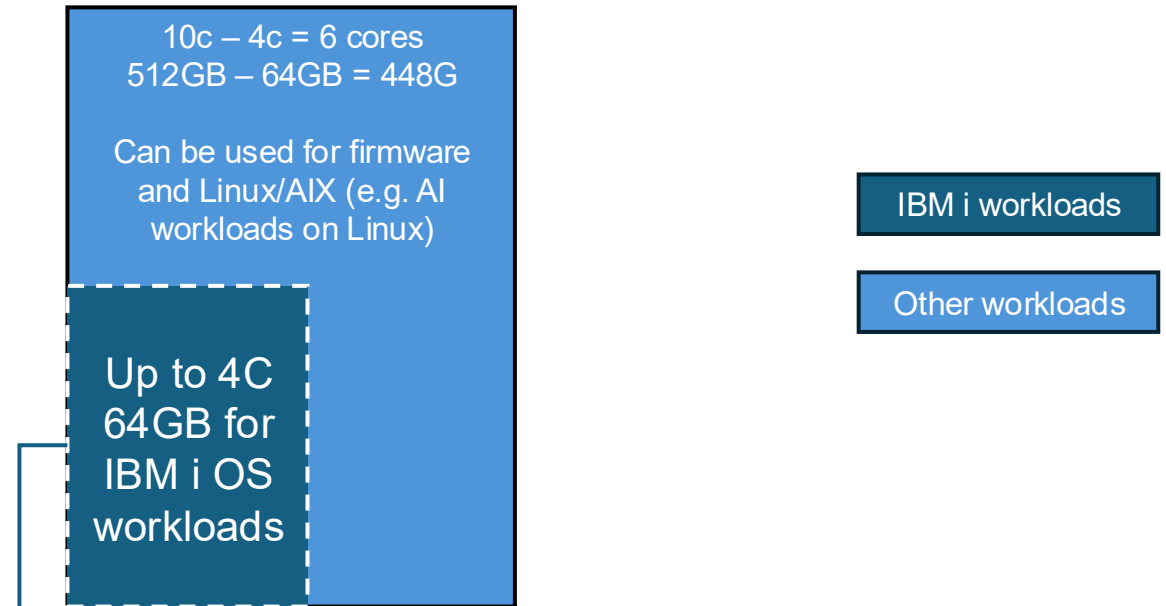
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# S1112<sup>1</sup> for IBM i P05

1. Server can be purchased 4c and 10c
2. Up to 512 GB with no system memory restriction
3. Order 4c and deactivate up to 3c if fewer cores are needed



## New with S1112<sup>1</sup> : Virtual Boundary



1. Firmware restricts IBM i workload to stay within 4 cores and 64GB memory
2. Cap of 4 IBM i partitions by having a max of 4 VCPUs

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# Performance Benchmarks for S1112<sup>1</sup>

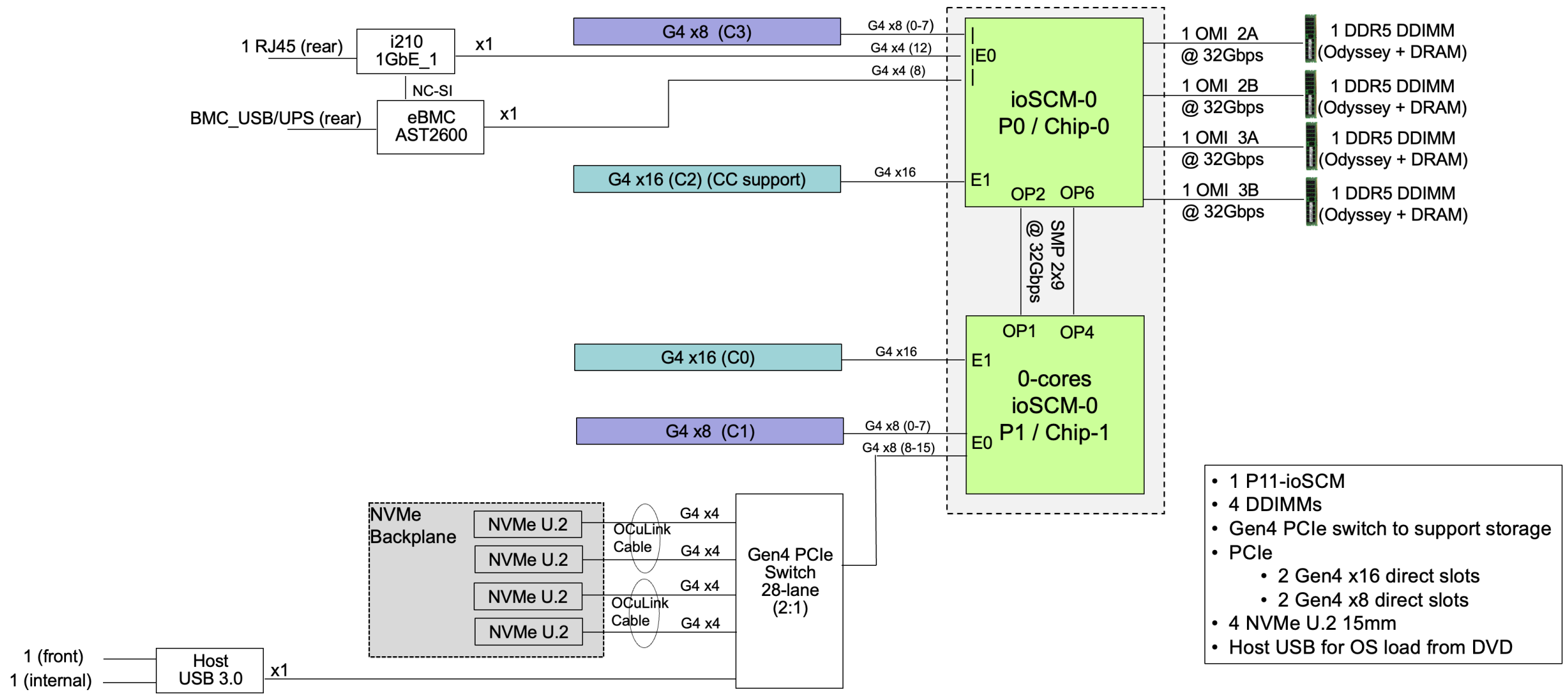
The S1112 delivers performance leadership at the system and core level in this space (1 Socket, 4 core).

CPW			S1112
			4c
			117,000
S1012	4c	111,300	1.05
S1014	4c	106,300	1.10
S914	4c	52,500	2.23
S814	4c	37,440	3.13

- 1.05X 4-core S1112 vs 4-core S1012
- 1.1X 4-core S1112 vs 4-core S1014
- 2.2X 4-core S1112 vs 4-core S914
- 3.1X 4-core S1112 vs 4-core S814

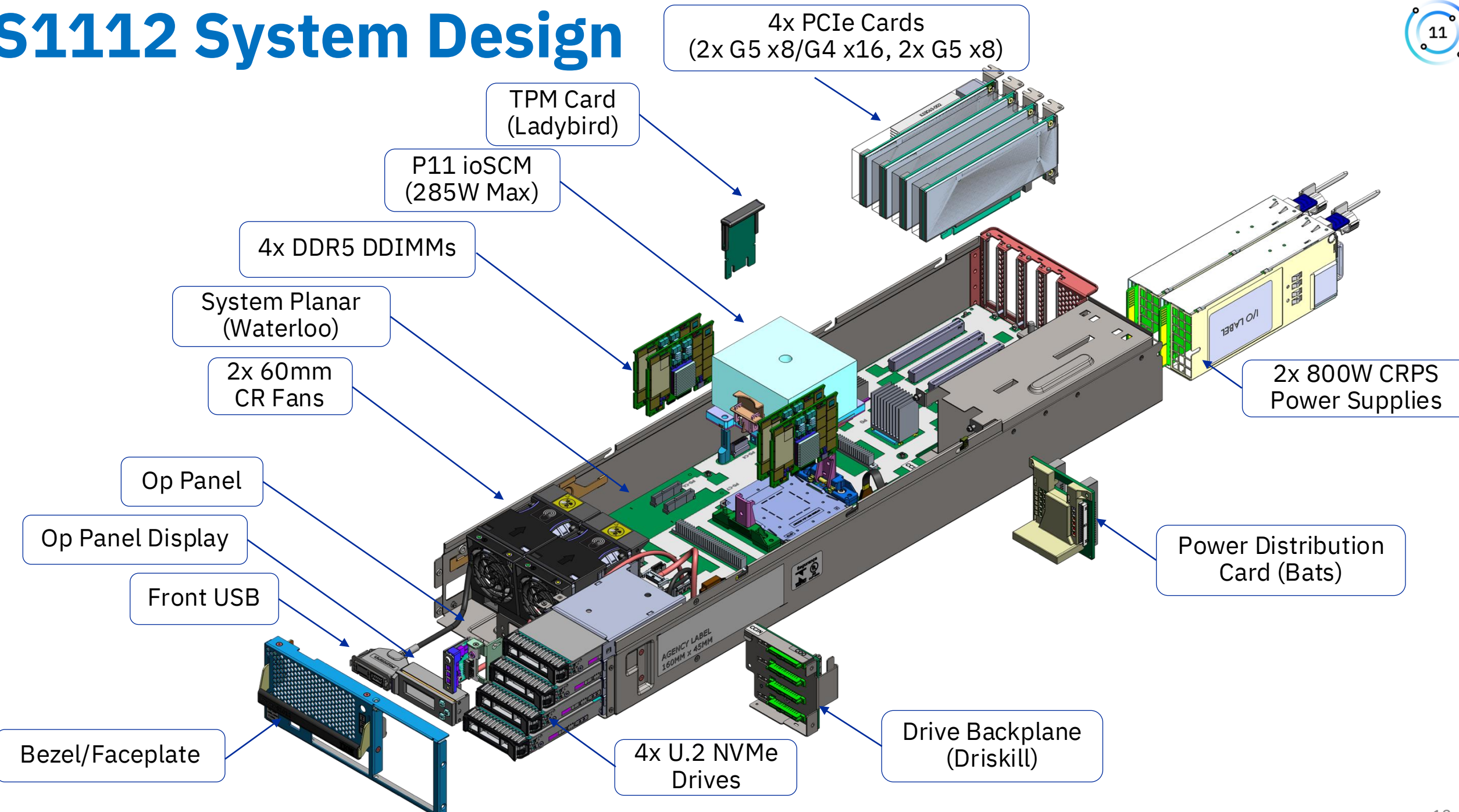
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# Power11 S1112 1S2U Block Diagram



- 1 P11-ioSCM
- 4 DDIMMs
- Gen4 PCIe switch to support storage
- PCIe
  - 2 Gen4 x16 direct slots
  - 2 Gen4 x8 direct slots
- 4 NVMe U.2 15mm
- Host USB for OS load from DVD

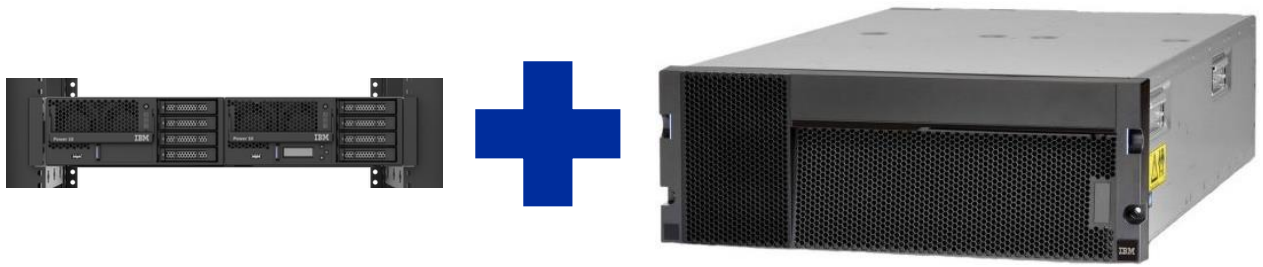
# S1112 System Design



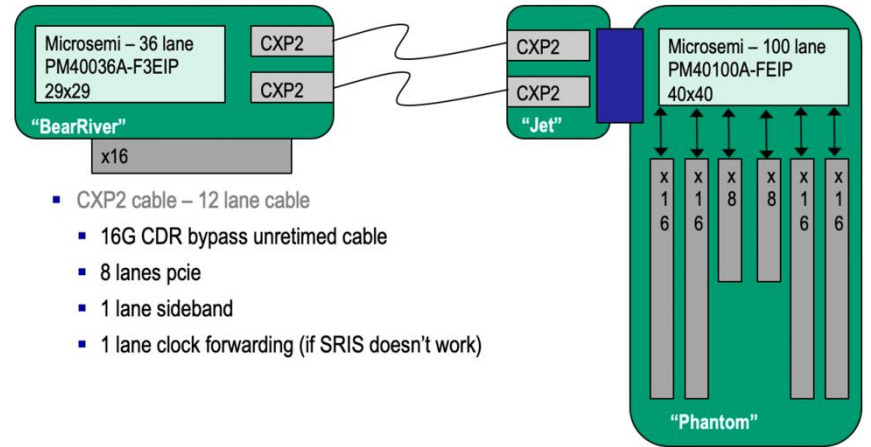
# S1112 - PCIe I/O Expansion Design

There is support for one PCIe Gen4 I/O Expansion Drawer with one PCIe4 6-Slot Fanout Module providing **six PCIe GEN4 slots**.

The PCIe Gen4 I/O Expansion Drawer **is not supported on the Tower** (9242-21T) model.



- Connectivity (Gen4)
  - Bear River = x16 to the host – x16 to the Fan out module

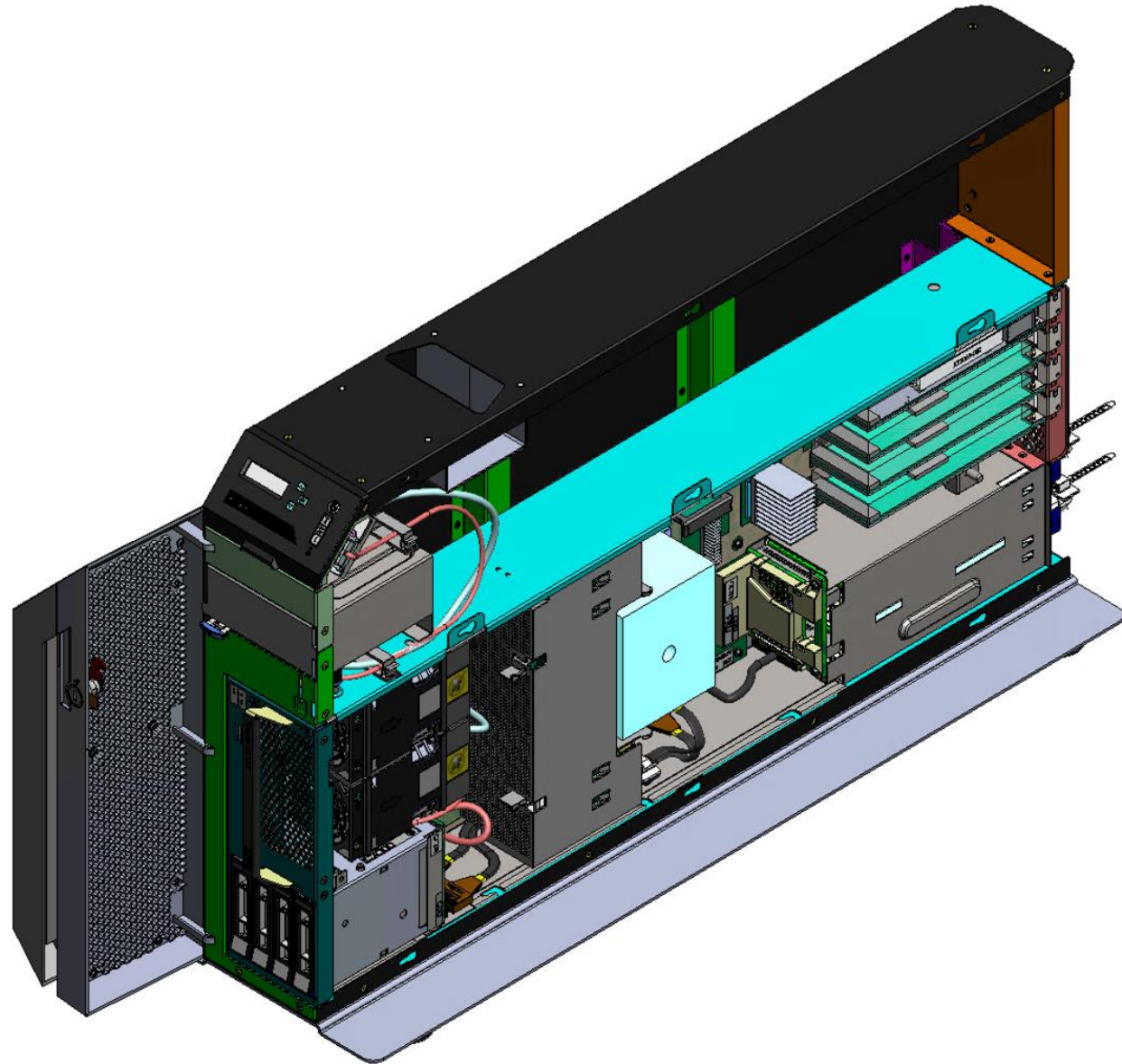


- CXP2 cable – 12 lane cable
  - 16G CDR bypass unretimed cable
  - 8 lanes pcie
  - 1 lane sideband
  - 1 lane clock forwarding (if SRIS doesn't work)

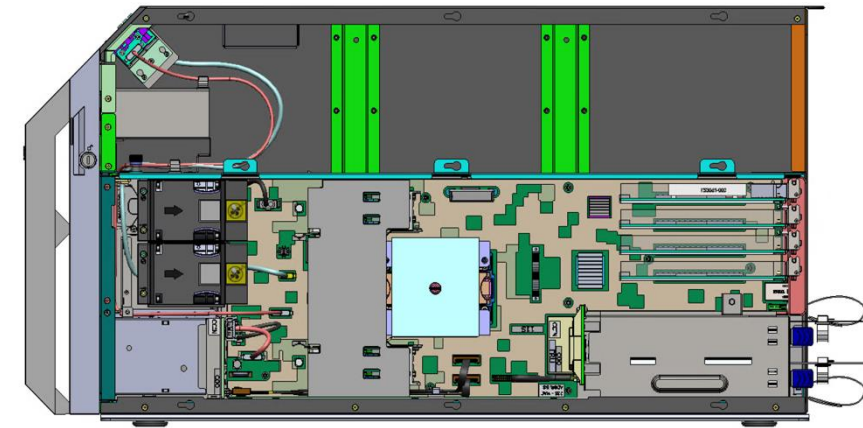
Bear River attach to Gen4 IO fanout module in Nimitz I/O drawer will use 1 internal PCIe in the S1112.



# S1112 Deskside configuration



**Width:** 11.2 cm (4.4")  
**Height:** 41.1 cm (16.2")  
**Overall Width (including feet):** 21.1 cm (8.3")  
**Maximum Depth (Front to Rear):** 78.5 cm (30.9")



# Power S1112 DDIMM Memory Options

Feature	Category	Description	Orderable/Supported
EM54	Memory	64GB (2x32GB) DDIMM (2U), 4000MHZ or 4800MHZ 16GBIT DDR5	Orderable
EM5B	Memory	128GB (2x64GB) DDIMM (2U), 4000MHZ or 4800MHZ 16GBIT DDR5	Orderable
EM5V	Memory	256GB (2x128GB) DDIMM (2U), 4000MHZ or 4800MHZ 16/32GBIT DDR5	Orderable

- Minimum config is 2x DDIMMs per socket
- All DDIMMs must be be the same type



# Power S1112 NVMe Options

FC (A/L), (i)	Category	Description	AIX/Linux IBM i	Orderable / Supported
ES5A	NVMe	800GB 4K NVMe U.2 15mm SSD PCIe4 (AIX/Linux)	A/L	0
ES5B	NVMe	800GB 4K NVMe U.2 15mm SSD PCIe4 (IBMi)	IBMi	0
ES5C	NVMe	1.6TB 4K NVMe U.2 15mm SSD PCIe4 (AIX/Linux)	A/L	0
ES5D	NVMe	1.6TB 4K NVMe U.2 15mm SSD PCIe4 (IBMi)	IBMi	0
ES4B	NVMe	1.6TB 4K NVMe U.2 15mm SSD PCIe4 (AIX/Linux)	A/L	0
ES4C	NVMe	1.6TB 4K NVMe U.2 15mm SSD PCIe4 (IBMi)	IBMi	0
ES4D	NVMe	3.2TB 4K NVMe U.2 15mm SSD PCIe4 (AIX/Linux)	A/L	0
ES4E	NVMe	3.2TB 4K NVMe U.2 15mm SSD PCIe4 (IBMi)	IBMi	0
EC7W	NVMe	800GB 4K NVMe U.2 15mm SSD PCIe4 (AIX/Linux)	A/L	0
EC7Y	NVMe	800GB 4K NVMe U.2 15MM SSD PCIe4 (IBMi)	IBMi	0
ECT0	NVMe	1.6TB 4K NVMe U.2 15mm SSD PCIe4 (AIX/Linux)	A/L	0
ECT1	NVMe	3.2TB 4K NVMe U.2 15mm SSD PCIe4 (AIX/Linux)	A/L	0
ECT4	NVMe	1.6TB 4K NVMe U.2 15mm SSD PCIe4 (IBMi)	IBMi	0
ECT5	NVMe	3.2TB 4K NVMe U.2 15mm SSD PCIe4 (IBMi)	IBMi	0



# Power S1112 I/O Options

FC	Category	Marketing Name	S1112	ENZ0	Orderable / Supported	Replacement
EC71	ROCE	2-PORT 25Gb EN CONNECTX-6 Lx SFP28 NO CRYPTO PCIe4 x8 LP ADAPTER	X		O	
EC72	ROCE	2-PORT 25Gb EN CONNECTX-6 Lx SFP28 NO CRYPTO PCIe4 x8 LP CAPABLE ADAPTER		X	O	
EAPD	ROCE	PCIe4 4-Port 25Gb/10Gb RoCE SFP28 LP Capable Adapter		X	O	
EC73	ROCE	2-PORT 25Gb EN CONNECTX-6 Lx SFP28 CRYPTO PCIe4 x8 LP ADAPTER	X		O	
EC74	ROCE	2-PORT 25Gb EN CONNECTX-6 Lx SFP28 CRYPTO PCIe4 x8 LP CAPABLE ADAPTER		X	O	
EN2Y	LAN	PCIe LP 4-port 1GbE Adapter	X		O	
EN2Z	LAN	PCIe 4-port 1GbE Adapter		X	O	
EN2W	LAN	PCIe2 4-port 10GbE Adapter		X	O	
EN2X	LAN	PCIe2 LP 4-port 10GbE Adapter	X		O	
EN2J	Stg_ctrl	PCIe4 32Gb 2-port Fibre Channel Adapter		X	O	
EN2K	Stg_ctrl	PCIe4 LP 32Gb 2-port Fibre Channel Adapter	X		O	
EN2A	Stg_ctrl	2-PORT FIBER CHANNEL(16Gb/s), PCIe3 x8/SHORT/LP CAPABLE		X	S	EN1A
EN2B	Stg_ctrl	2-PORT FIBER CHANNEL(16Gb/s), PCIe3 x8/SHORT/LP	X		S	EN1B
EN1A	Stg_ctrl	PCIe3 32Gb 2-port Fibre Channel Adapter		X	O	
EN1B	Stg_ctrl	PCIe3 32Gb 2-port Fibre Channel Adapter	X		O	
EN1L	Stg_ctrl	PCIe4 32Gb 4-port Fibre Channel Adapter		X	O	
EN1N	Stg_ctrl	PCIe4 64Gb 2-port Fibre Channel Adapter		X	O	
EN1P	Stg_ctrl	PCIe4 64Gb 2-port Fibre Channel Adapter	X		O	
EJ2B	Stg_ctrl	SAS TAPE HBA W/4X HD MINISAS, LOW PROFILE CAPABLE PCIe3 12Gb x8		X	O	
EJ2C	Stg_ctrl	SAS TAPE HBA W/4X HD MINISAS, LOW PROFILE PCIe3 12Gb x8	X		O	
EC90	Graphics	PCIe4 x4 Graphics Adapter	X		O	
EPG4	Encryption	4770 CRYPTO COPROC PCI3 x4 LP	X		O	
EPG6	Encryption	4770 CRYPTO COPROC PCI3 x4 LP CAPABLE IN GEN3' CASSETTE FOR I/O DRAWER		X	O	
EJ24	Bus Expansion	PCIE X16 TO CXP CONVERTER CARD, SUPPORTS OPTICAL OR COPPER CABLES, SINGLE WIDE W/ LOW HS	X		O	
ENZ0	Drawer	19-INCH PCIe Gen4 4U I/O EXP DRWR	X		O	
ENZF	Drawer	PCIe Gen4 FANOUT MODULE	X		O	
	Drawer	Media Drawer 7226-1U3	X	X	O	
EUA5	DVD	STANDALONE USB DVD DRIVE WITH CABLE	X			

# Energy Savings with Power S1112<sup>1</sup>

## S1112 (10c/512GB) will deliver improved CPW per Watt

- **52% more CPW per Watt** compared to S914 (8c/256GB)
- **48% more CPW per Watt<sup>1</sup>** compared to S1014 (8c/256GB)

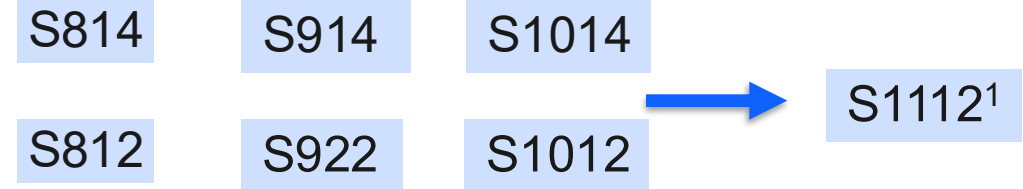
1. Power S1014 is 205,300 CPW @ 627 Watts (327 CPW/Watt), Power S1112 is 262,000E CPW @ 540E Watts (485 CPW /Watt);  $485 / 327 = 1.48$  more CPW/Watt
2. Power S914 is 122,500 CPW @ 383 Watts (319 CPW/Watt), Power S1112 is 262,000E CPW @ 540E Watts (485 CPW /Watt);  $485 / 327 = 1.52$  more CPW/Watt

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# Offering Simplification for P05 & P10 Software Tiers

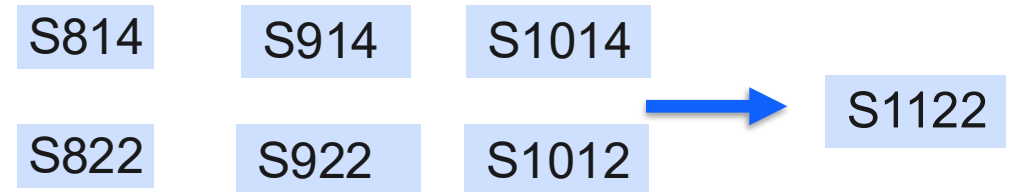
## P05 Software Tier:

- S1112 is the only P05 tier system for Power11
- **Standardize on 1S2U to reduce cost, rack space and boost adoption**



## P10 Software Tier:

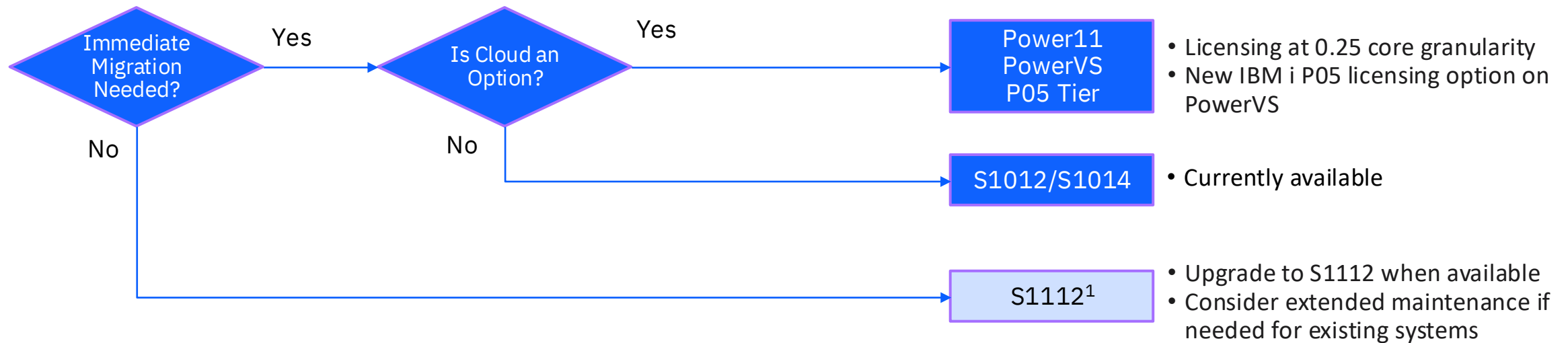
- S1122 is a better P10 option than previous generation one-socket offerings



<sup>1</sup> Statements by IBM regarding its plans, directions, and intent are subject to change or withdrawal without notice at the sole discretion of IBM. Information regarding potential future products is intended to outline general product direction and should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for IBM products remain at the sole discretion of IBM.

# Upgrade options for IBM i P05 Power8/Power9

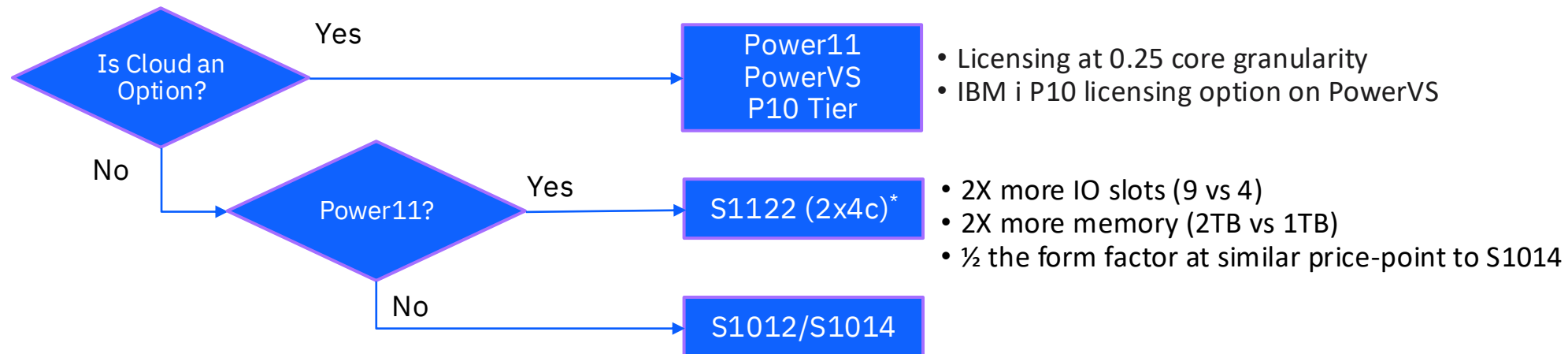
- IBM introduced the S1012 in 2Q2024 as a more space-efficient, cost-effective alternative to S1014



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# Upgrade options for IBM i P10 Power8/Power9

- For IBM i P10 clients, **S1122** offers better capabilities as the Power11 server option, compared to **previous generation 1S4U and 1S2U systems**



\* A very small number of clients upgrading to S1122 could be impacted as:

- S1122 has less storage space but we offer an external drawer or larger NVMe drives
- S1122 does not support high profile adapters – in most cases low profile options are available or an external IO drawer

# The Power10 and Power11 range




**S1012**  
9028-21B




- 1-socket, 2U rack and tower
- 1.4, 8 cores / SMT8 socket
- Max 8 cores**
- 4 DDIMM slots
- 256 GB of memory (64 GB 1 and 4 Core)
- 4 PCIe FHHL slots (4 Gen5 capacity)
- 4 NVMe U.2 bays
- Optional RDX Media Bay
- ½ width

**S1014**  
9105-41B




- 1-socket, 4U rack and tower
- 4, 8 cores / SMT8 socket
- Max 8 cores**
- 8 DDIMM slots
- 1 TB of memory (64 GB 4 Core)
- 5 PCIe FHHL slots (4 Gen5 capacity)
- 16 NVMe U.2 bays
- Optional RDX Media Bay

**S1022S**  
9105-22B




- 1,2-socket, 2U rack
- Up to 16 cores per system
- 4, 8 cores / SMT8 socket
- Max 16 cores**
- 16 DDIMM slots
- 2 TB of memory
- 10 PCIe H HHL slots (8 Gen5 capacity)
- 8 NVMe U.2 bays
- Max 51.2TB internal storage

**S1022 & L1022**  
9105-22A / 9786-22H




- 1,2-socket, 2U rack
- 12, 16, 20 cores SMT8 / socket
- Max 40 cores**
- 32 DDIMM slots
- 4 TB of memory
- 10 PCIe H HHL slots (8 Gen5 capacity)
- 8 NVMe U.2 bays
- L1022: max 25% of cores with other operating systems

**S1024 & L1024**  
9105-42A / 9786-42H



- 1,2-socket, 4U rack
- 12, 16, 24 cores SMT8 / socket
- Max 48 cores**
- 32 DDIMM slots
- 8 TB of memory
- 10 PCIe FHHL slots (8 Gen5)
- 16 NVMe U.2 bays
- Optional RDX Media Bay
- L1024: max 25% of cores with other operating systems


**E1050**  
9043-MRX



- 2, 3, 4-socket, 4U
- 12, 18, 24 cores SMT8 / socket
- Max 94 cores**
- 64 DDIMM slots
- 16 TB of memory
- 10 PCIe FHHL slots (8 Gen5)
- 10 NVMe U.2 bays

~~IBM~~

**E1080**  
9080-HEX



- 1 to 4 CEC 5U + 2U SCU
- 10, 12, 15 cores SMT8 / socket
- Max 240 cores**
- 64TB memory, 16TB /drawer
- 8 PCIe FHHL slots (8 Gen5)
- 4 NVMe U.2 bays

1C P05    4C P05    8C P10

4C P05    8C P10

P10

P10


12C P20    2\*12C P20    2\*16C P30    2\*24C P30

~~IBM~~

P30



**S1112**  
9149-21B, 9149-21T




GA 3Q 2026

- 1-socket, 2U rack and tower
- 1.4, 10 cores / SMT8 socket
- Max cores 10 cores**
- 4 DDR5 Dimm slots
- 512 GB of memory (64 GB 1 and 4 Core)
- 4 PCIe FHHL slots (4 Gen5 capacity)
- 4 NVMe U.2 bays
- Support for a 6-slot ½ drawer
- ½ width

1C P05    4C P05    10C P10


**S1122 & L1122**  
9824-22A / 9856-22H



- 1,2-socket, 2U rack
- 16, 24, 30 cores SMT8 / socket
- Max 60 cores**
- 32 DDIMM slots
- 4 TB of memory
- 10 PCIe H HHL slots (8 Gen5 capacity)
- 8 NVMe U.2 bays
- L1022: max 25% of cores with other operating systems

P10


**S1124 & L1124**  
9824-42A / 9856-42H



- 1,2-socket, 4U rack
- 16, 24, 30 cores SMT8 / socket
- Max 60 cores**
- 32 DDIMM slots
- 8 TB of memory
- 10 PCIe FHHL slots (8 Gen5)
- 16 NVMe U.2 bays
- Optional RDX Media Bay
- L1024: max 25% of cores with other operating systems

16C P20    2\*16C P20    2\*24C P30    2\*30C P30


**E1150**  
9043-MRU



- 2, 3, 4-socket, 4U
- 16, 24, 30 cores SMT8 / socket
- Max 120 cores**
- 64 DDIMM slots
- 16 TB of memory
- 10 PCIe FHHL slots (8 Gen5)
- 10 NVMe U.2 bays

~~IBM~~

**E1180**  
9080-HEU



- 1 to 4 CEC 5U + 2U SCU
- 10, 12, 16 cores SMT8 / socket
- Max 256 cores**
- 64TB memory, 16TB /drawer
- 8 PCIe FHHL slots (8 Gen5)
- 4 NVMe U.2 bays

P30

AIX    IBMi    Linux    Red Hat OpenShift

All servers based PowerVM

# IBM Power S1112<sup>1</sup> for Secure Web-Tier Server

*Harden and isolate the most exposed layer of the IT stack*

*Designed to protect the enterprise “front door” (web tier)*

## Why Now?

- **Web servers are the most common entry point for cyberattacks**
- ~50% of breaches start at the web tier
- Average cost of a data breach: \$4.4M (2025)
- **Common hypervisors are frequent attack targets**

## Flexible Software Stack support on S1112

- Red Hat Enterprise Linux
- Apache
- PowerSC
- HTTP Server for i ((powered by Apache)

## Why S1112 vs x86 at the Web Tier

- Strong isolation, simple design
  - **Power11 Quantum-safe Capabilities**
  - Hardware-backed LPAR isolation
  - **No shared hypervisor exposure across workloads**
- Built-in secure virtualization
  - **PowerVM has 98% fewer vulnerabilities (CVEs) than Vmware (NIST)<sup>2</sup>**
  - Fewer patches → lower outages → reduced breach risk
- Predictable, right-sized economics
  - Ideal for always-on web workloads
  - **No recurring hypervisor licensing costs**

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<sup>2</sup> <https://nvd.nist.gov/vuln/search#/nvd/home?resultType=records> / **National Institute of Standard and Technology**

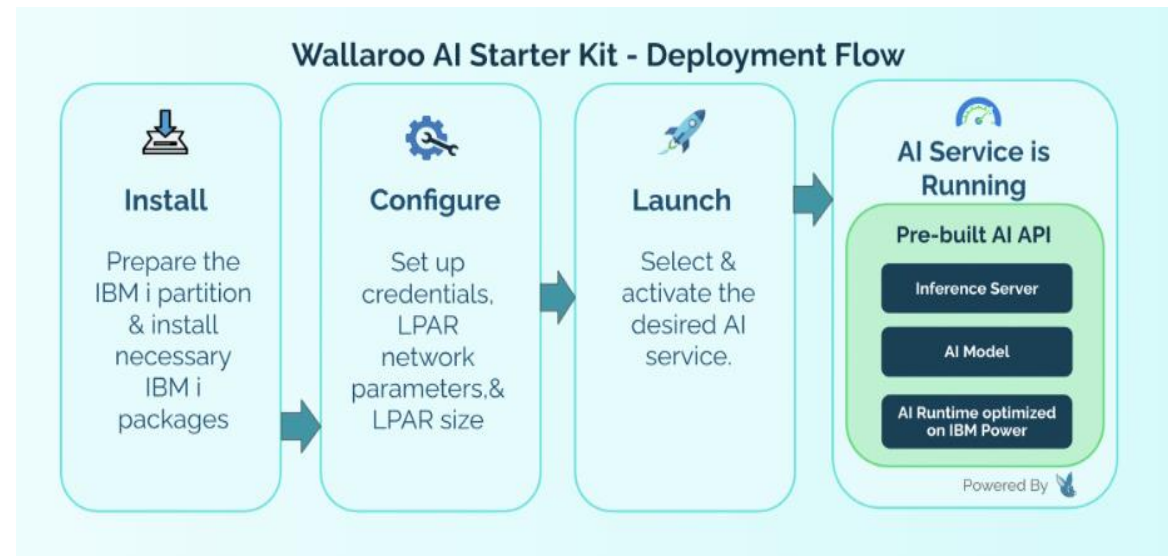
# IBM Power S1112 for ai

Example : Powered by IBM Power with wallaroo AI Starter Kit(WASK)

The Wallaroo AI Starter Kit (WASK) is a platform that makes it easy to deploy and use AI models on IBM Power. It helps IBM i, AIX, and Linux users to quickly run AI assistants, RAG applications, and AI inference services with high performance.

## Perfect for Entry-level AI Deployment

- Low-cost entry point
- **Easy deployment and management**
- **Minimal risk – AI next to your data**
- **No requirement to modify IBM i application**
- Can scale up cores / memory later
- First step into AI use cases:
  - ✓ Digital Assistant for HR, sales, IT, operations
  - ✓ Internal document Q&A for employees
  - ✓ Content summarization
  - ✓ Information extraction
  - ✓ Code assistant



## IBM i Partition Preserved

- 4 cores / 64 GB retained on S1112 ( Per IBM i P05 tier)
- AI runs in a separate Linux LPAR for safety and isolation

# IBM Power S1112<sup>1</sup> OS requirement

## AIX

Operating system LPAR with any I/O configuration

- AIX Version 7.3 with the 7300-04 Technology Level and Service Pack 1
- AIX Version 7.3 with the 7300-03 Technology Level and Service Pack 3
- AIX Version 7.2 with the 7200-05 Technology Level and Service Pack 12

If installing the AIX operating system with Virtual I/O only LPAR (one of these)

- AIX version 7.3 with the 7300-04 Technology Level
- AIX version 7.3 with the 7300-03 Technology Level
- AIX version 7.2 with the 7200-05 Technology Level and Service Pack 8

## VIOS

VIOS 4.1.2.10

VIOS 4.1.1.30

## IBM i

IBM i 7.6 TR2 – Both native and as a client of VIOS

IBM i 7.5 TR8 – Both native and as a client of VIOS

IBM i 7.4 TR12 – Both native and as a client of VIOS

## Linux

RHEL 9.6, RHEL 9.8

RHEL 10.2

SLES15 SP7

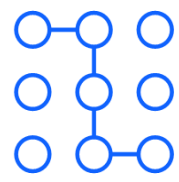
SLES16

KVM on PowerVM supported with SLES16

OpenShift (v4.17) support will be based on RHEL 9.6

# S1112

Modernize Today.  
Secure What Matters.  
Enable What's Next.



## IBM i System Upgrade

Upgrade IBM i environments to a modern Power platform that delivers higher performance, smaller footprint, and stronger resilience

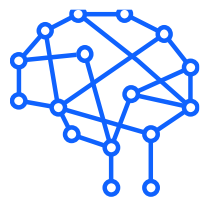
- Improve application uptime and **resilience** at remote/branch locations
- **Reduce up to 75% IT footprint** vs. previous 1S4U models, less power, cooling and space
- **Enterprise-grade security** plus cost-effective HA/DR and backup options protect mission-critical workloads.



## Small Apps and DBs

Enterprise-grade security, availability, and performance for smaller database workloads

- Secure Oracle, DB2, and OSDB environments with enterprise-grade protection
- Ensure consistent availability and reliability for “small but critical” workloads
- **Optimize performance per-core** while avoiding additional licensing cost
- Maintain compliance with data protection standards



## Edge AI Inferencing

Run AI inferencing securely at the edge—closer to data, users, and operations without building new infrastructure stacks.

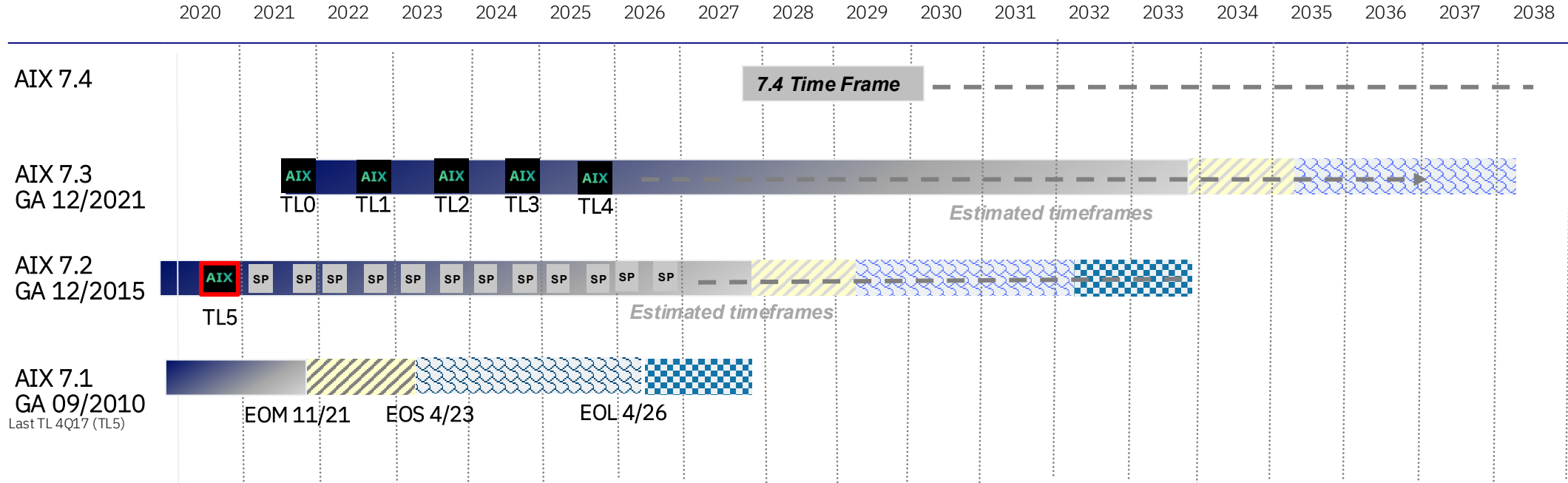
- **Run AI workloads locally** at ROBO sites for faster insights
- Deliver competitive performance SLAs with **reduced latency**
- **Protect sensitive data** and results flowing through AI models
- Scale inferencing capacity efficiently with minimal infrastructure

# Whats new across Power11 Portfolio







*AIX, IBM Concert, PEP2.0, Upgrade path..*



# AIX Release Streams



- All AIX releases run on Power10
- AIX 7.2 and 7.3 will support Power11
- Standard support for AIX Technology Levels is three years with the possibility of a special bid support extension
- See the IBM Support document for [Best Practices with AIX Maintenance](#)

	Marketed and serviced		Technology Level (TL)	EOM = End of Market Availability
	Serviced only		Last TL for a release	EOS = End of Standard Service
	Fee-based service extension		Service Pack	EOL = End of Life

# Strategic Drivers for AIX

Industry leading **Innovations, Performance, Reliability, and Security** – battle tested by world’s leading enterprise class workloads and applications. We strive to achieve...



**Zero**  
Planned Downtime  
(Reduced Downtime)

Maximize Business Continuity & Cost Efficiency

- Minimal/No Operational Disruption
- Reduce IT Downtime
- Lower TCO



**Zero**  
Tune Performance  
(Workload Optimization)

Workload Optimization with Out of the Box Performance

- Effortless Optimization
- Business Value unleashed Instantly
- Efficiency from Day One

37



**Zero**  
Trust Security  
(Optimized Security)

Guarding future of Enterprises with total protection

- Integrated & Advanced Security Capabilities
- Layered Security for Trust, Compliance, and Continuity
- Future-Ready Protection



**Zero**  
Touch Automation  
(Administrative Efficiency)

Extreme automation for Administrative Efficiency

- AIX Ansible Collection
- Simplified Operations
- Lower Human Error, Smarter Resource Use
- Boost Productivity

# AIX Live Update Innovation with Live Library Update (LLU)



## – Live Library Update (LLU)

Provides for live activation of library updates without requiring application restarts

Controlled via the raso command or the LDR\_CNTRL env var

Initial support covers libc and libpthreads

## – Live Kernel Update (LKU) and LLU

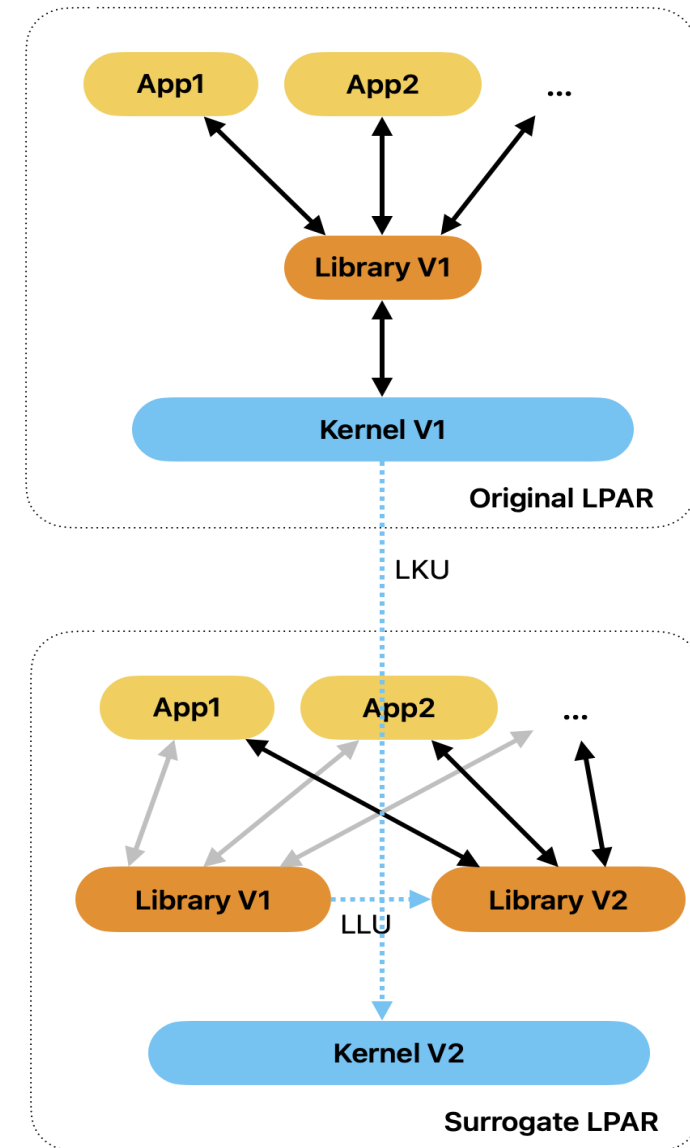
LKU and LLU can be performed together to live update both kernel and user space AIX components

LLU can also be used independently

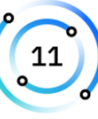
## – LLU extends LKU to allow for live update of AIX without AIX reboots or application restarts

Works with i-fixes, SPs, and new AIX TLs

Read the [LLU blog](#)



# Planned AIX Changes for Software Update Access Keys



- What is it
  - AIX on Power10 and later server includes an AIX Update Access Key
  - The AIX Update Access Key (UAK) **contains the SWMA expiration date**
  - AIX verifies if an active Software Maintenance Agreement (SWMA) is present
  - Starting with AIX 7.3 TL4, **updates and migrations will fail** if the update image is beyond the SWMA expiration
  
- Outcome for Users
  - Strict enforcement, updates & migrations are blocked if UAK is expired.
  - **i-fixes are not affected**
  - Action required, renew SWMA to maintain a valid UAK.

# AIX PCE EOL and EE Update

AIX Standard Edition  
5765-G98 / 5765-2B1

AIX Enterprise Edition  
5765-CD3 - 5765-2E1



AIX 7.3 Standard Edition

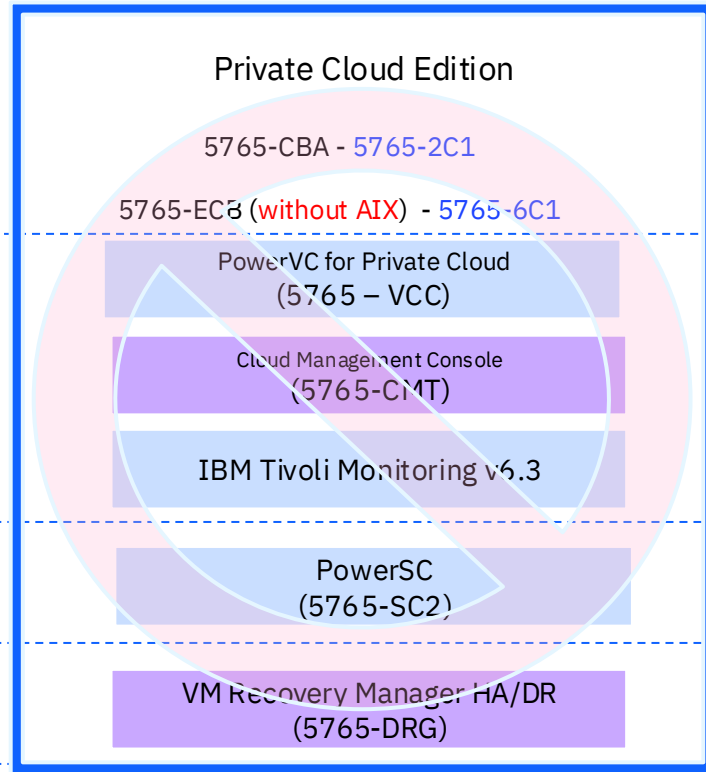
PowerVC  
(5765 - VCC)

IBM Tivoli Monitoring v6.3

PowerSC  
(5765-SC2)

VM Recovery Manager HA/DR  
(5765-DRG)

MES Upgrade to  
be Hybrid-Cloud  
Ready!



**What is being Withdrawn?**

- 5765-CBA PCE with AIX
- 5765-2C1 PCE with AIX Subs
- 5765-ECB PCE without AIX
- 5765-6C1 PCE without AIX Subs

Cloud Management Console  
(5765-CMT)

CMC - Stand alone offering

AIX (5765-G98)  
Perpetual, Monthly Term and  
Subscription Licenses

AIX (5765-G98)  
Perpetual and Subscription Licenses

# IBM Concert for Power

IBM Concert for Power uses AI **to identify risks, recommend fixes, and automate remediation**, keeping Power environments secure and resilient.

The image shows the text 'IBM Concert for Power' in white on a black background. To the right of the text is a blue graphic element consisting of a grid of squares with some squares highlighted in a lighter blue, resembling a server rack or a data center environment.

IBM Concert for Power

Concert for Power helps ...

**Resilient Power Systems** - Concert **keeps systems patched**, current, and secure. Closing the gap that leaves 29% of Power systems below IBM's recommended security patch level.

**Identify** - Concert provides **a unified view** of multiple aspects of the Power systems into a single view with one prioritized picture.

**Understand and recommend** – Concert understands the exposure and explains it to the user for quicker comprehension and time to remediation. **It will recommend best-in-class remediation actions for the user.**

**Remediates** - Concert **can automatically remediate identified exposures**, adapting to any brownfields environment and meeting the client's change management needs using their own tools.

# What platforms are supported for Power?

Delivers automated vulnerability management across the entire Power stack by discovering systems, assessing risks, recommending fixes, and on Power11, automating remediation with Zero Planned Downtime.

## Supported platforms

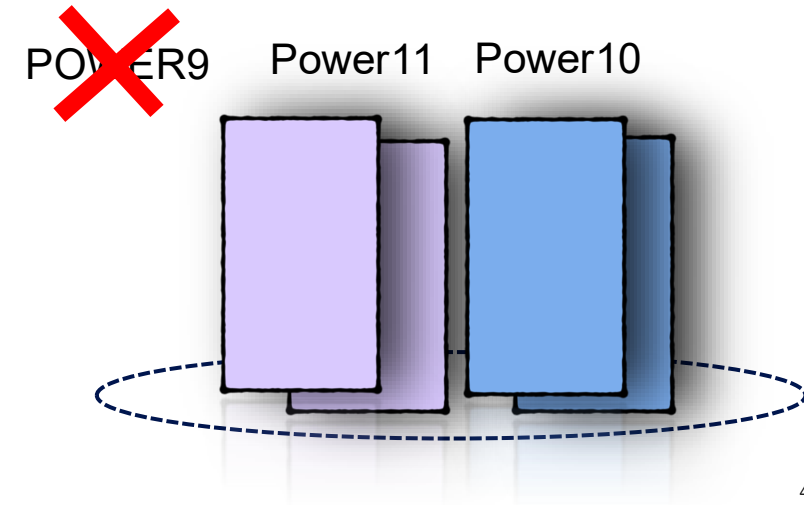
- **IBM Power 11 systems:**
  - Fully supported for discovery, advisory and assessment.
  - [Automated remediation through Concert Workflows and ZPD.](#)
- **IBM Power 10 systems:**
  - Supported for discovery, advisory and assessment.
  - [Automated remediation through Workflows only.](#)

## Supported Power components

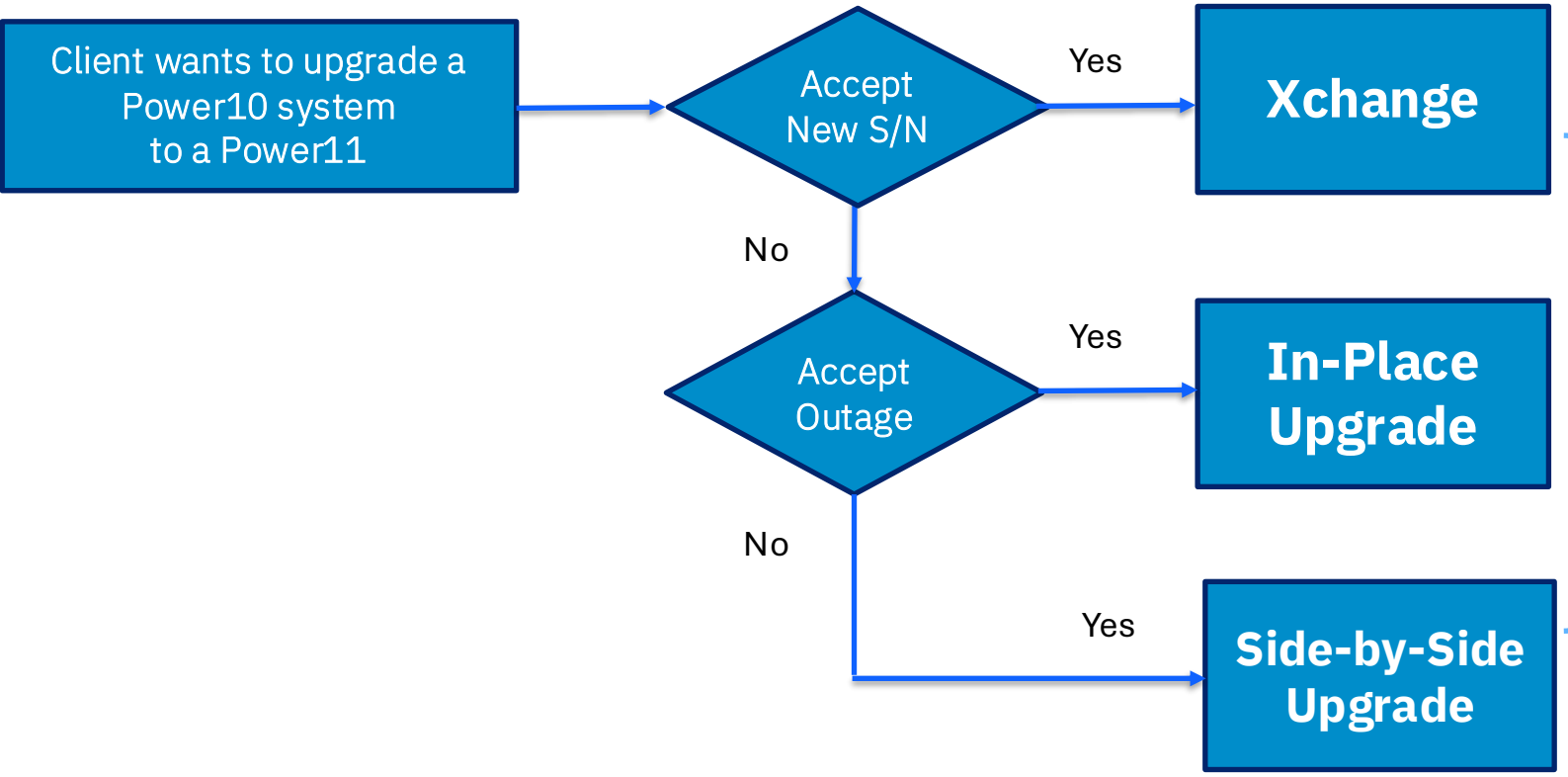
- **Systems:** Automated discovery of Power servers and their firmware levels, hardware-level CVE correlation, impact assessment, remediation recommendations, and approval-driven remediation via system firmware and IO adapter updates.
- **HMC:** Automated discovery of managed consoles, CVE and advisory correlation, impact assessment, remediation recommendations, and approval-driven remediation via HMC upgrades.
- **VIOS:** Automated discovery based on installed VIOS versions and fixes, CVE correlation, impact assessment, remediation recommendations, and approval-driven remediation via VIOS updates.
- **AIX:** Automated discovery based on installed AIX levels and fixes, CVE correlation, impact assessment, remediation recommendations, and approval-driven remediation via iFix updates.
- **Power Linux (RHEL/SLES):** Automated discovery based on installed versions and errata, CVE correlation, impact assessment, remediation recommendations, and approval-driven patching.
- **IBM i:** Automated discovery based on installed versions and fixes, impact assessment, remediation recommendations, and remediation via PTF updates.

# Requirements for Power Enterprise Pools 2.0

- A valid Power Enterprise Pools Subscription (5765-P2E) is required on each Power11 system being deployed in a pool.
- **ONE single machine class** is allowed per pool
  - For example: 5 x E1150 in one pool, 3 x E1180 in another pool.
- Power11 and Power10 systems may interoperate within a single pool.
- All machines within a pool must be **in the same enterprise and geopolitical country**
- A minimum of 1 Processor Activation is required on each system within a pool.
- A minimum of 256GB Memory Activation is required on each system within a pool.



# Power 11 upgrades options\*

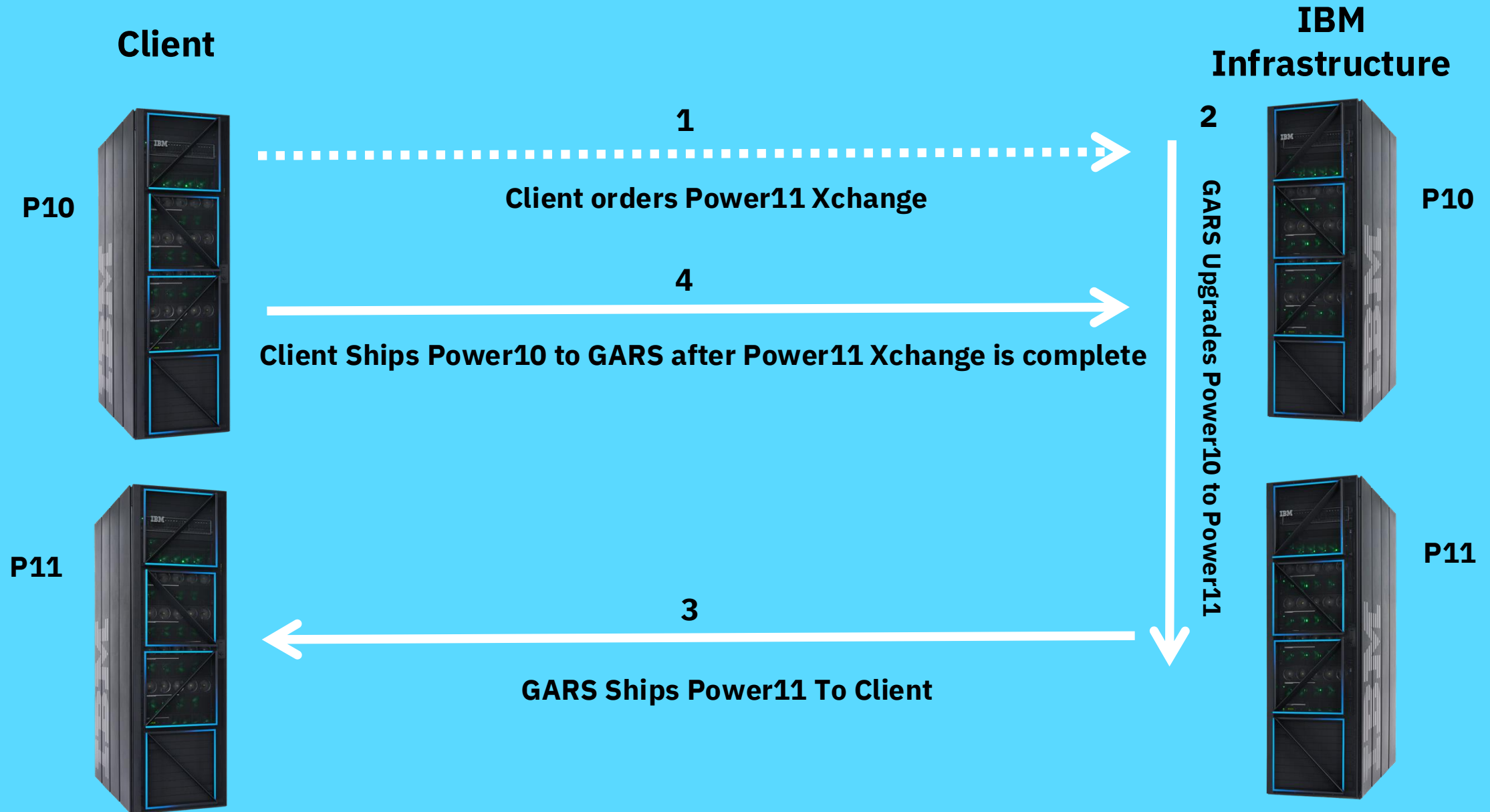


## Availability

- E1180  
Announced: 7/8/2025
- E1150  
Announce: 10/28/2025
- Xchange:  
Announce: 11/11/2025

\*Mid-Range or High-end only

# IBM Power Xchange Offering



# IBM Power Xchange

*Unlock the advantages of a side-by-side exchange for approximately the same total cost of ownership as an MES upgrade.*

## **Migrate to a fully tested IBM Power11 Machine**

Includes a 90-day migration period for the following machines:

- 9080 HEX (1080) → 9080 HEU (1180) and
- 9043 MRX (1050) → 9043 MRU (1150)

## **Minimize Application Downtime**

Zero downtime with end-to-end maintenance.  
Latest technology and NEW capabilities with no disruption to operations.

## **Backed by IBM Technology Lifecycle Services**

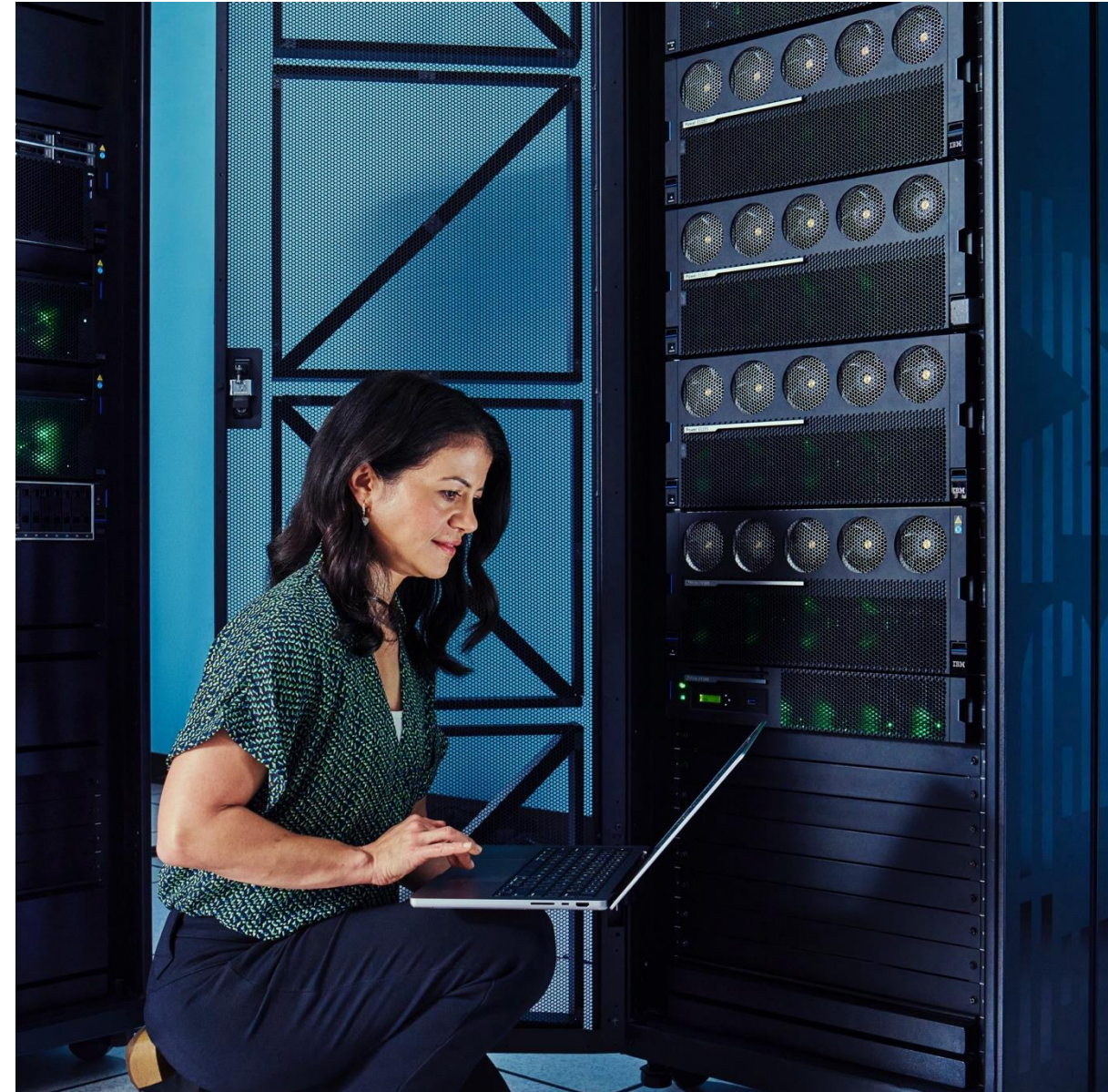
Includes IBM warranty and installation services

## **Maintenance & Financing Eligible**

Qualifies for IBM maintenance and financing options, making it a flexible and secure investment.

## **Aligned with Sustainability Goals**

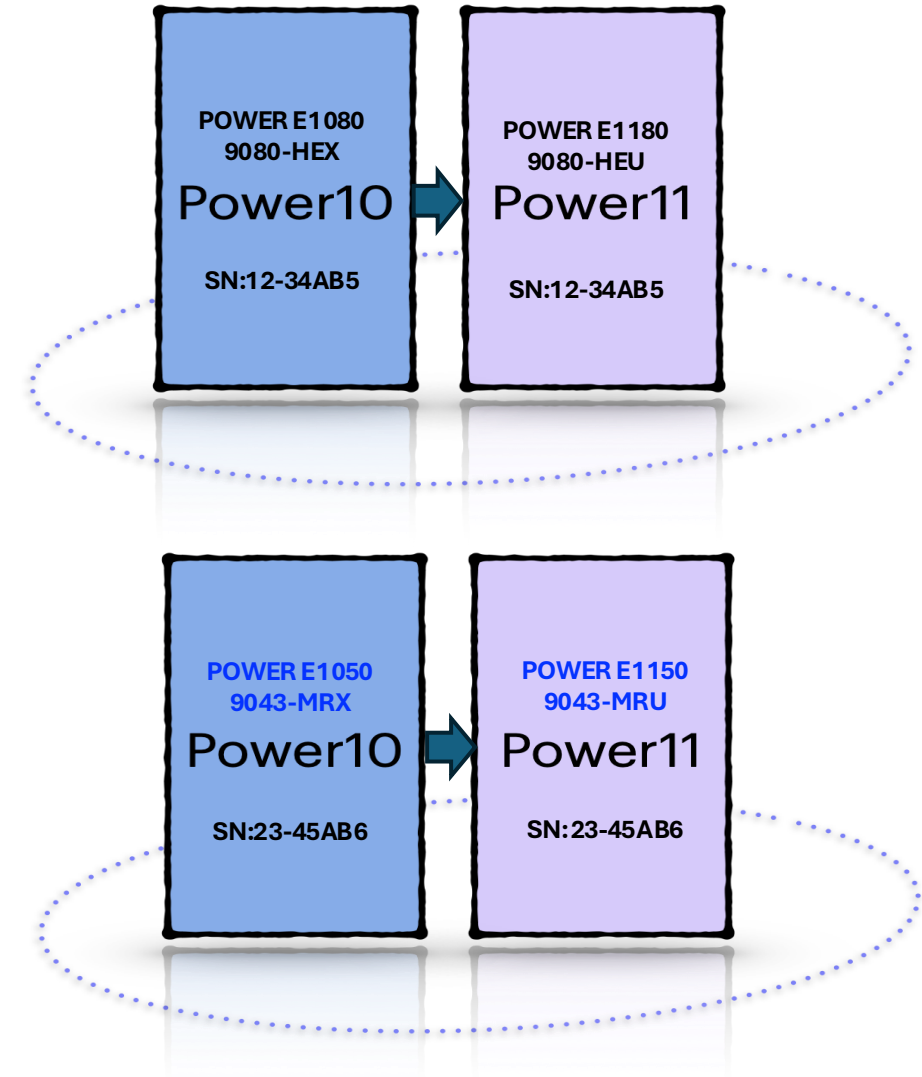
Supports IBM's commitment to sustainability and the circular economy.



Return your Power10 for a Power11 NOW!

# Serial Number Preserving model upgrades

- Serial Number Preserving model upgrades provides
  - Flexibility and cost savings by **retention of select memory and IO features**
  - Retaining some existing software and services entitlements
  - **Conversion credits for activations**
  - Enabling to preserve warranty/maintenance contract while leveraging the latest technology.



# Serial Number Preserving comparison

## Comparison

Feature	In-Place Upgrade	Side-by-Side Upgrade
Serial number preserved	✓	✓
Software activation credits preserved	✓	✓
Existing software/service entitlements preserved	✓	✓
Reuse of existing memory	✓ Yes	✗ Generally no
Reuse of existing I/O adapters	✓ Yes	✗ Generally no during migration
Additional new hardware required	Low	High
Planned downtime	Yes	Minimal or none
Cost	Lower	Higher

•**In-Place Upgrade** → **Best for minimizing cost** by reusing existing memory and I/O hardware, but requires planned downtime.

•**Side-by-Side Upgrade** → **Best for minimizing downtime**, since a new system runs alongside the existing one, but it requires significant additional hardware investment.

# Announcement Summary

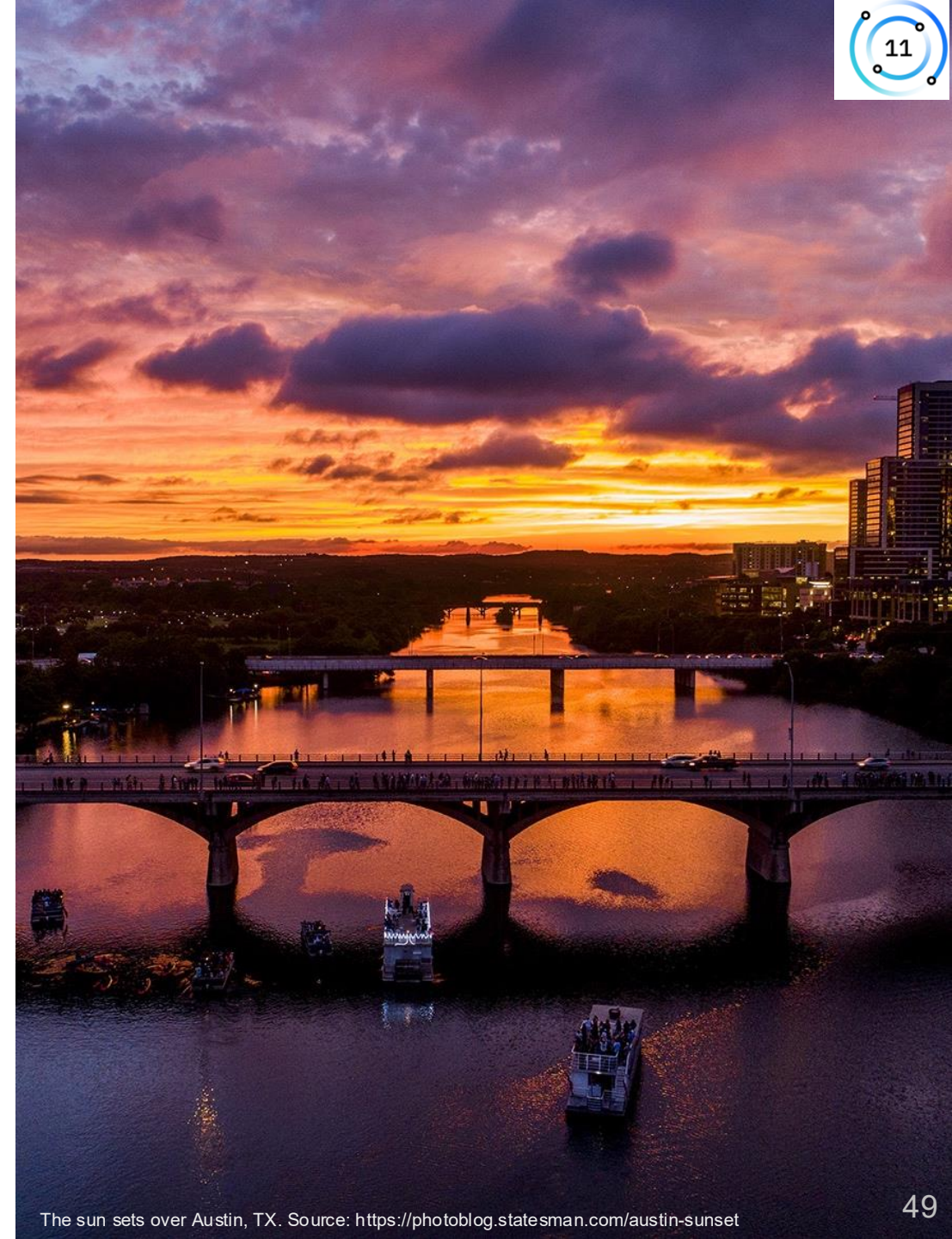
- IBM announced the sunset (end-of-market) for all the remaining **Power10 servers**.
- **July 31<sup>th</sup> 2026**, is the effective end-of-market date. IBM won't accept orders for new products afterward.
- **Support services will continue accordingly**. The End Of Service (EOS) dates will be defined and announced further.

The offerings to be withdrawn from the market are:

- IBM Power System E1080 (9080-HEX)
- IBM Power System E1050 (9043-MRX)
- IBM Power System S1024 (9105-42A)
- IBM Power System S1022 (9105-22A)
- IBM Power System S1022s (9105-22B)
- IBM Power System S1014 (9105-41B)
- IBM Power System L1022 (9786-22H)
- IBM Power System L1024 (9786-42H)

Why the withdrawal of Power10 systems?

- A new set of systems featuring the Power11 technology was announced in July 2025, giving it 1y of portfolio transition from Power10.
- Power11 is a new, superior product and is fully available in the market
- **S1012 servers remains in the market**





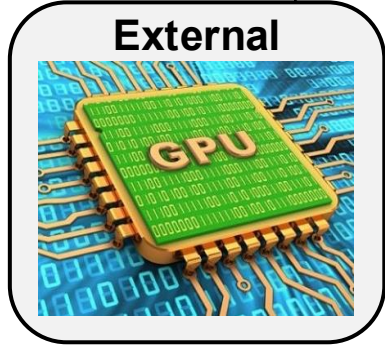
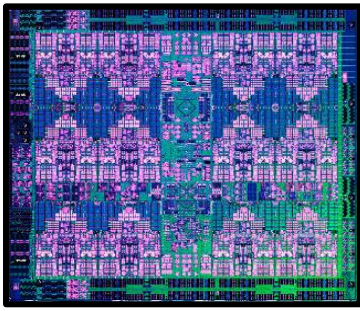
# Put AI into production with Power11



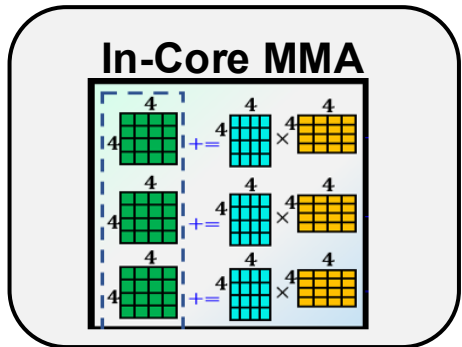
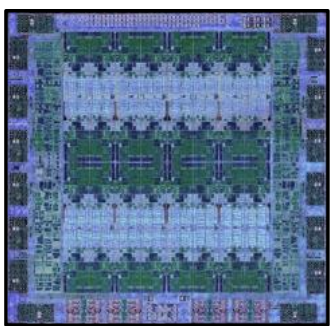
# AI POWER – Power11



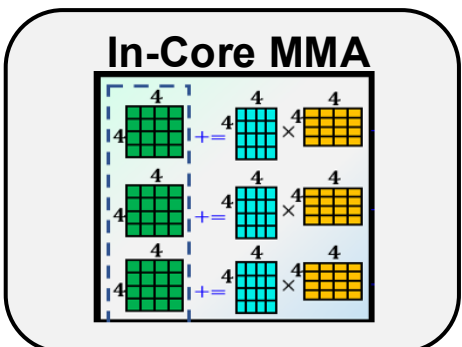
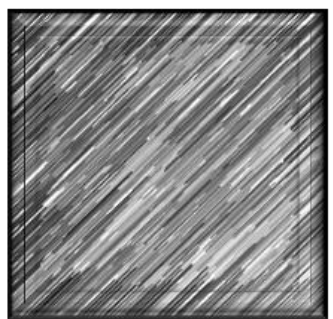
**POWER9**  
(release: 2018)



**Power10**  
(release: 2021)



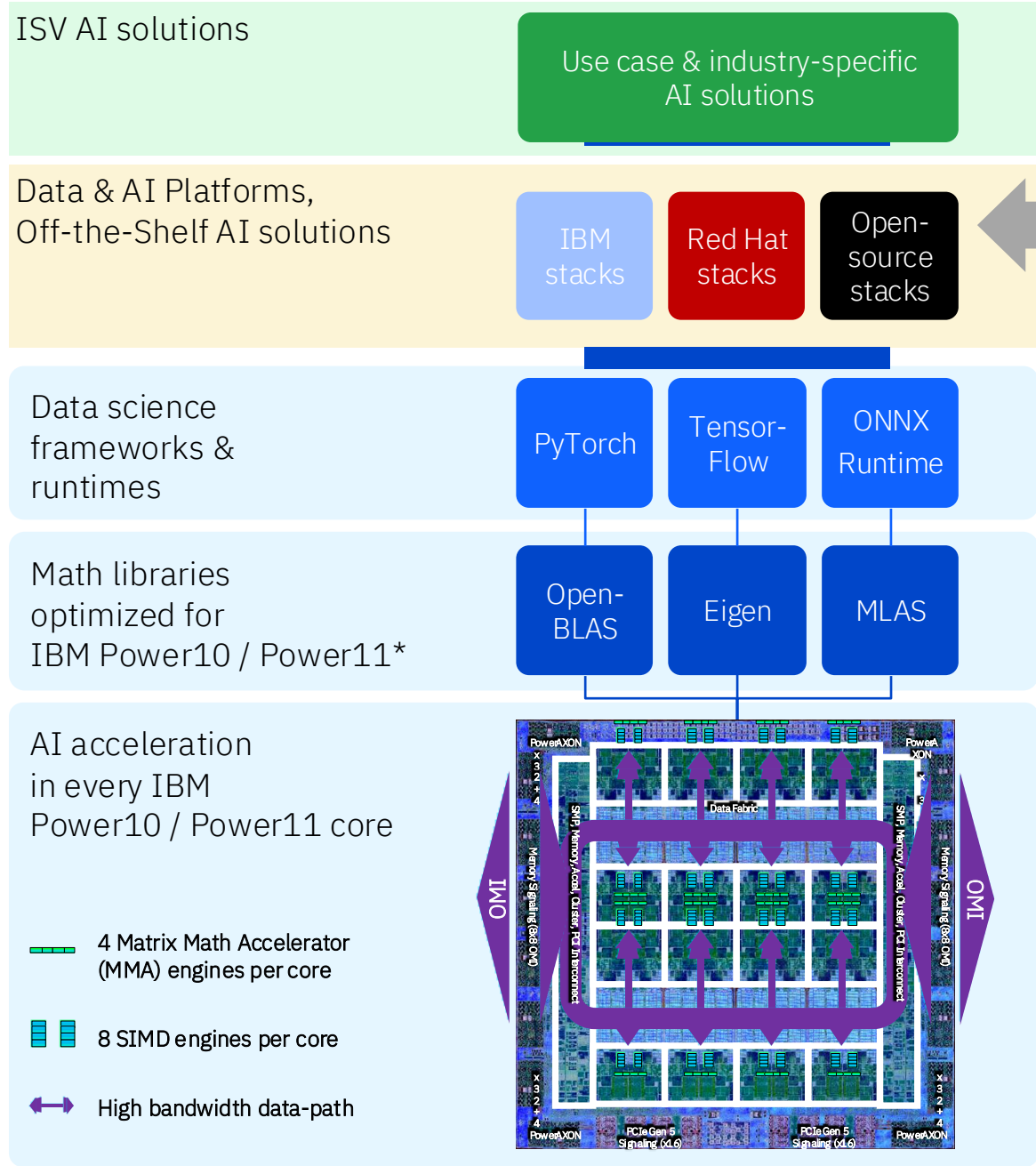
**Power11**  
(release: 2025)



# Power Full stack optimization

Users get **out-of-the-box acceleration** without code changes, easing deployments of AI models such as large language models

\* Partnering with Rocket Software



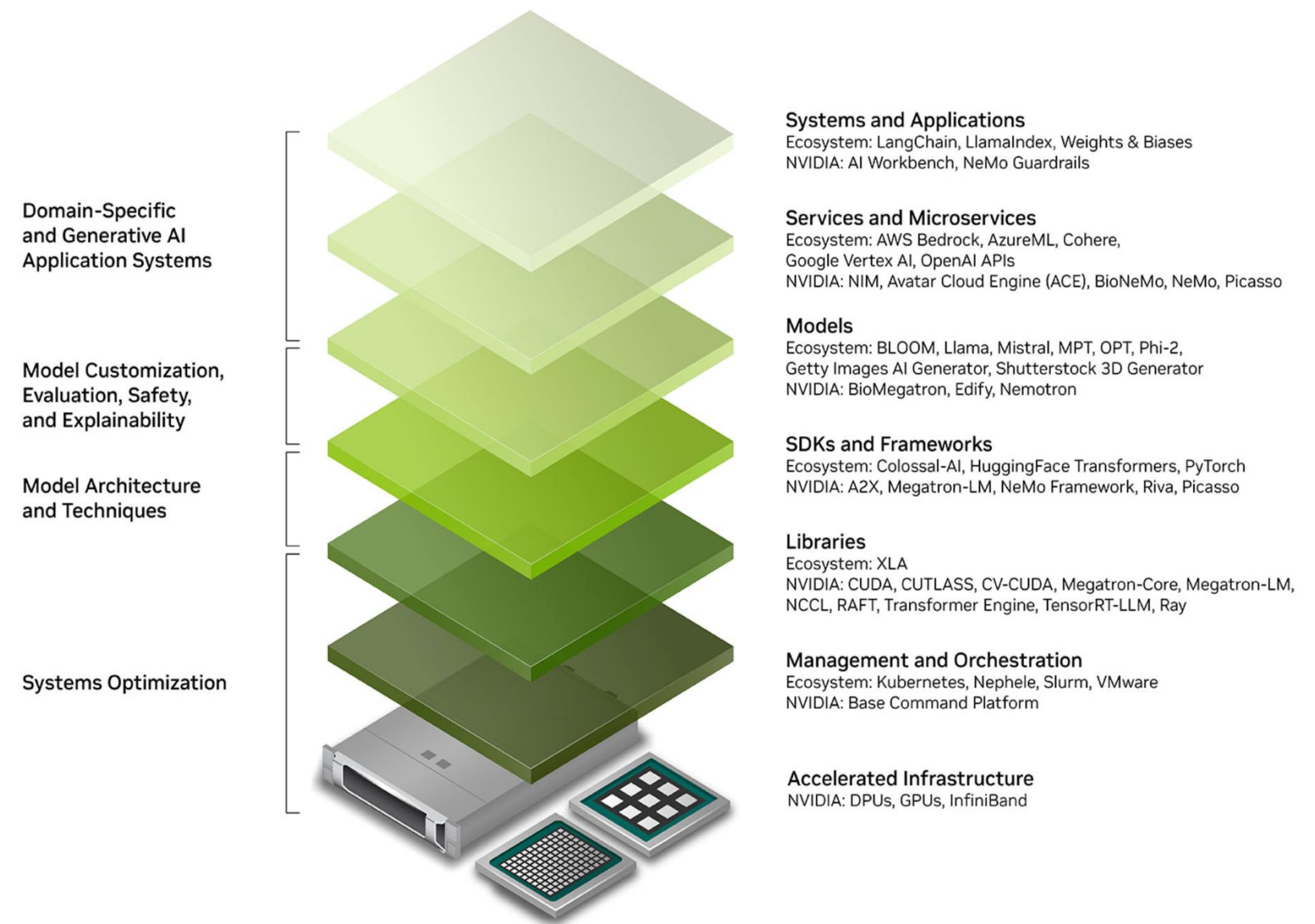
Commercial support  
3,000+ open-source tools & packages.

...and more.

# Generative AI stack and options

*This is the vision of NVIDIA*

- *Other options exist, commercial or open source, cloud or on-premise*
- *On each floor of the stack, many possibilities, all constantly evolving*
- *So many choices to make!*
- *Strong skills required*

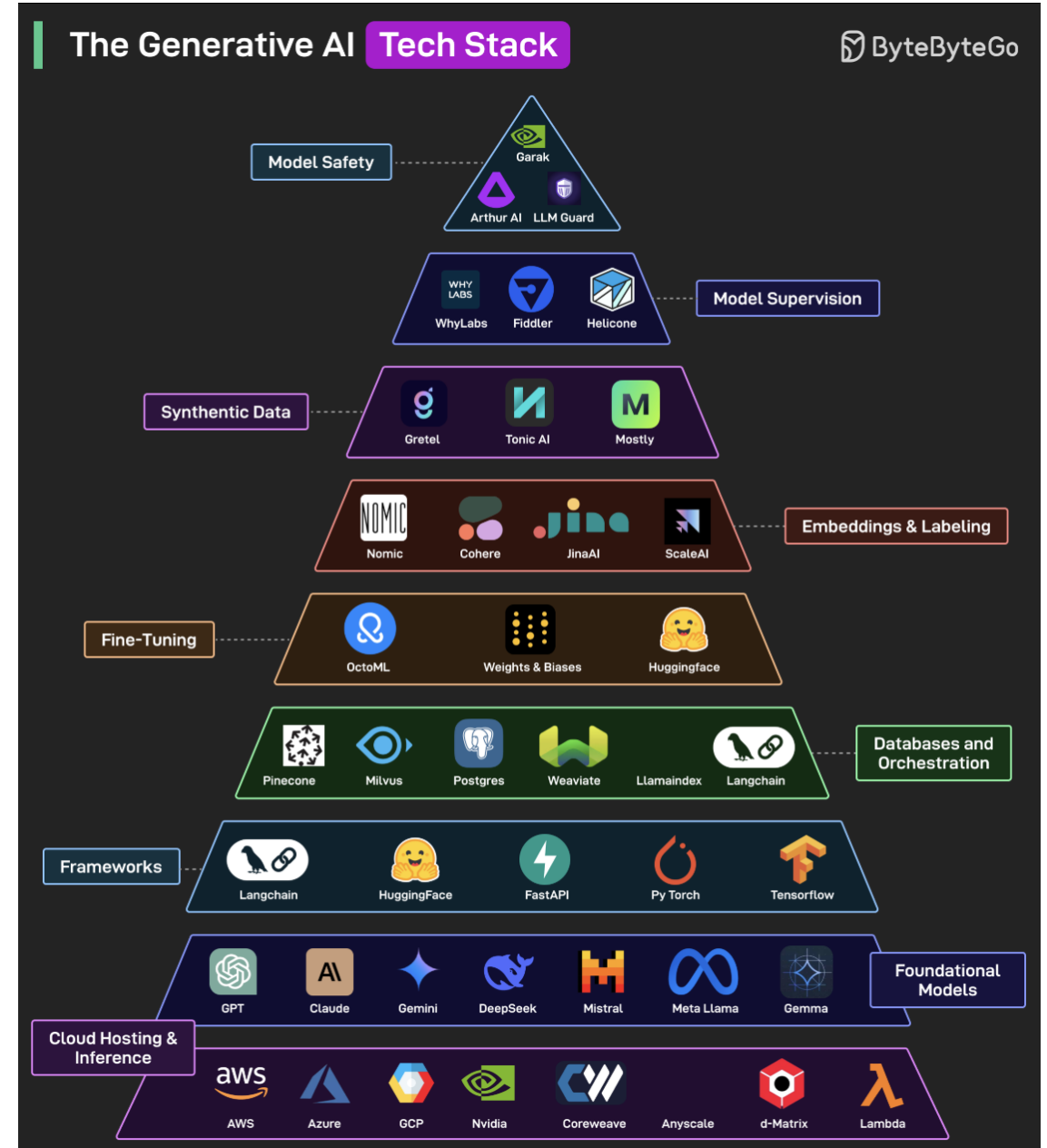
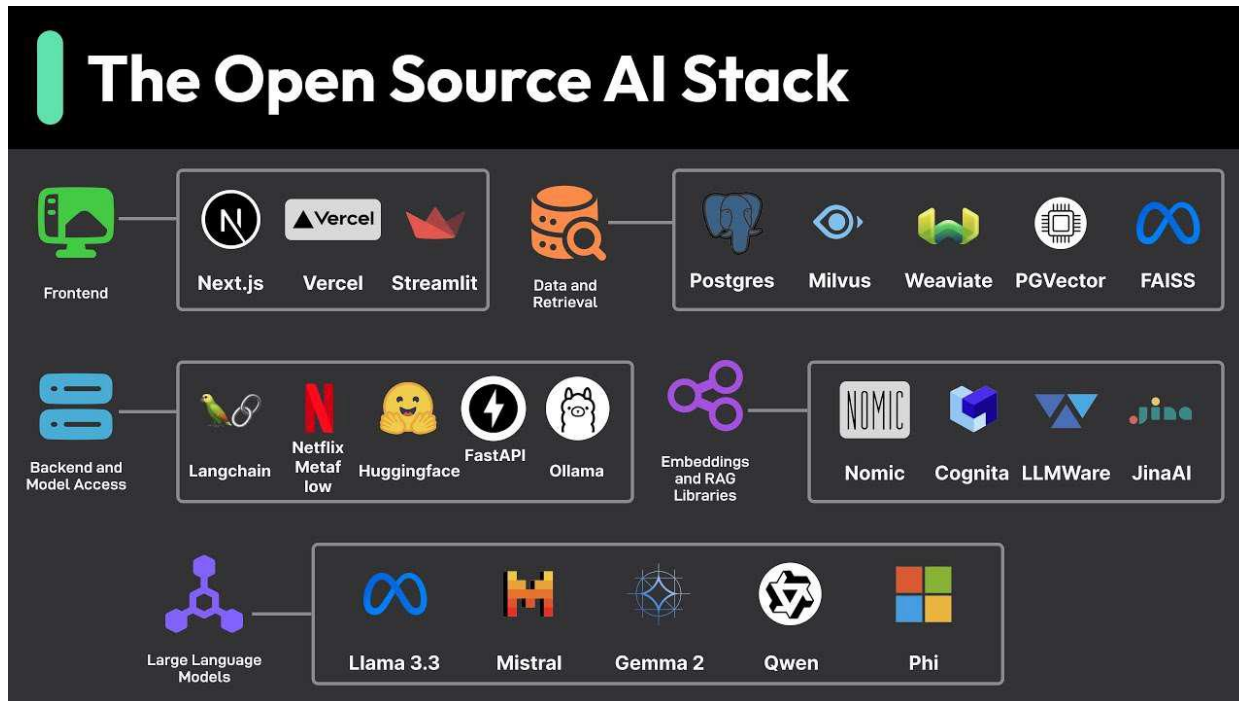


<https://developer.nvidia.com/topics/ai/generative-ai?>

# Open source Generative AI Stack

There is a vast ecosystem of open-source products available for building a generative AI stack.

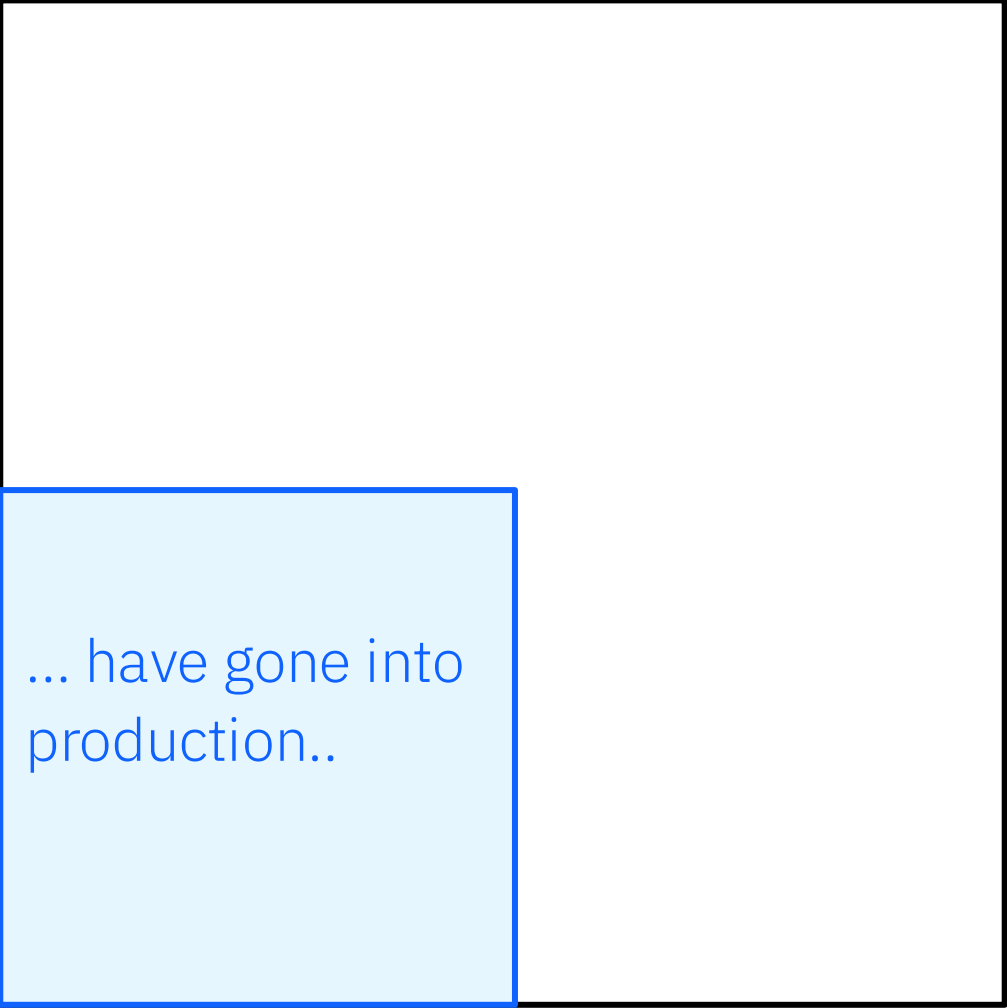
The challenge lies in **selecting the right software components**, deploying them effectively, and then managing the ongoing **complexity of updates**, maintenance, and evolution.



# 98% of enterprises have experimented with gen AI

But only ...

# 26%



# Top Barriers to scale AI projects into production



## Skills

- **Lack of data science or AI engineering skills to integrate AI into current workflows**
- Technology
- Security
- No AI-powered assistance to help transform exiting processes



## Data Complexity

- Data resides in **different locations, different formats with no standardized connectors**
- Integrating and transforming enterprise data for AI use cases is complex



## AI Integration Complexity

- Concerns of **re-designing existing workflows and disrupting established processes**
- Limited AI software availability



## Cost

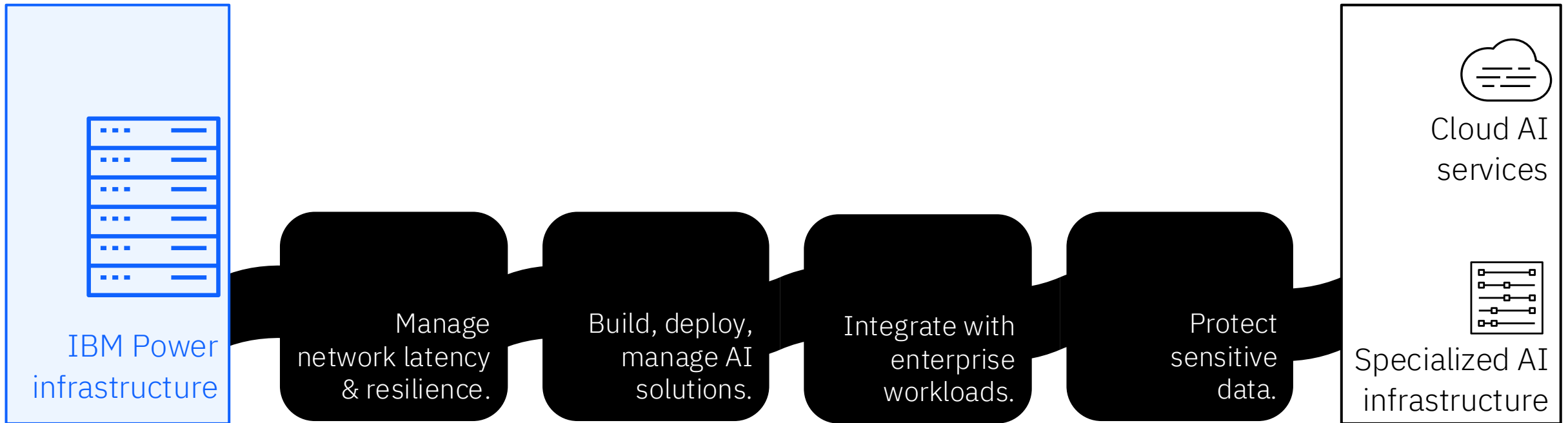
- Concerns of **expensive infrastructure needed to meet performance requirements**
- Concerns of cost associated with operationalizing and developing newer skills for AI services



## Privacy & Security

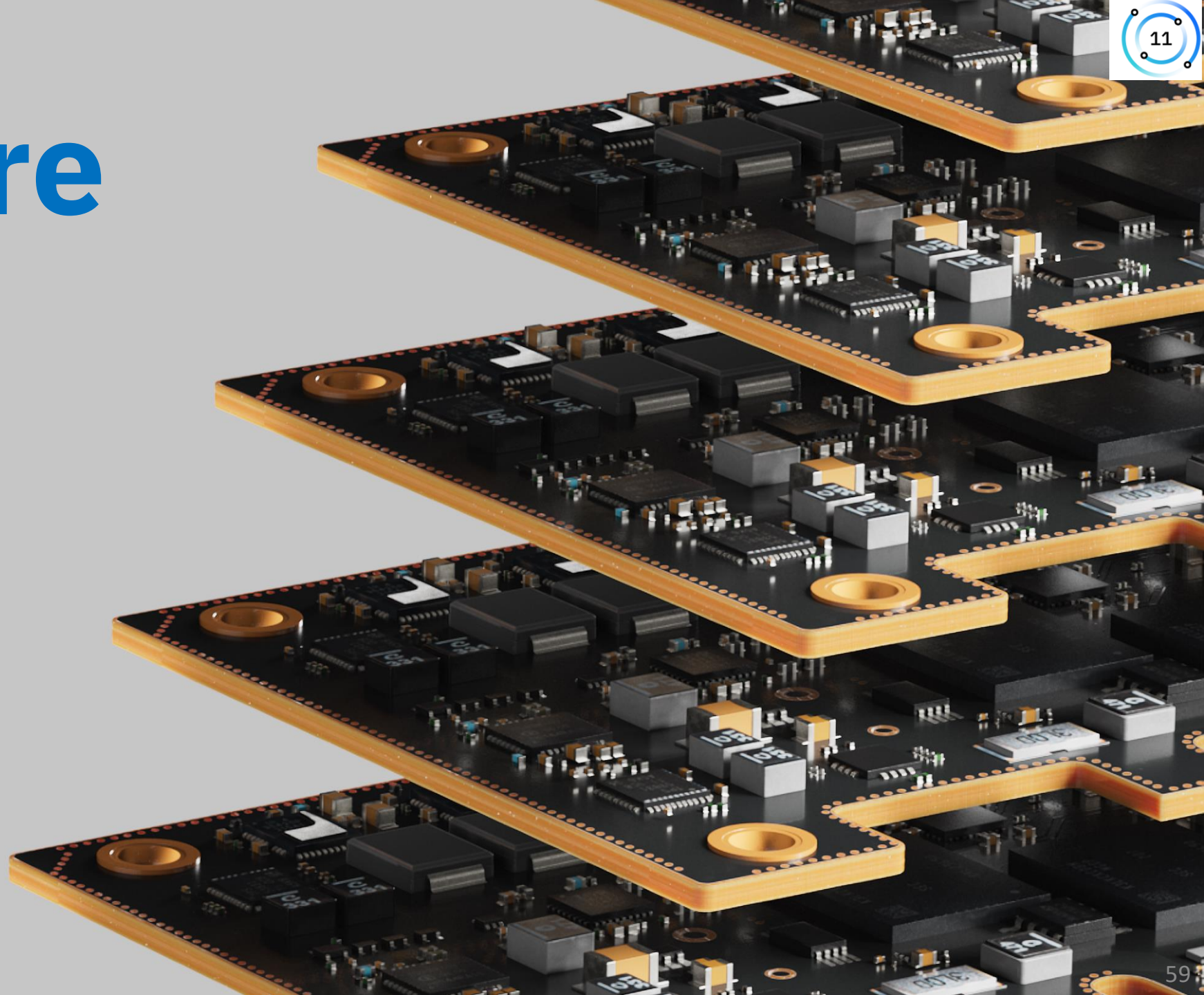
- Data used for training or fine tuning **can include sensitive information and moving data off the trusted platform can lead to vulnerabilities**
- AI models need to be protected to prevent adversarial attacks

# ...so, what if all this now comes out-of-the-box?

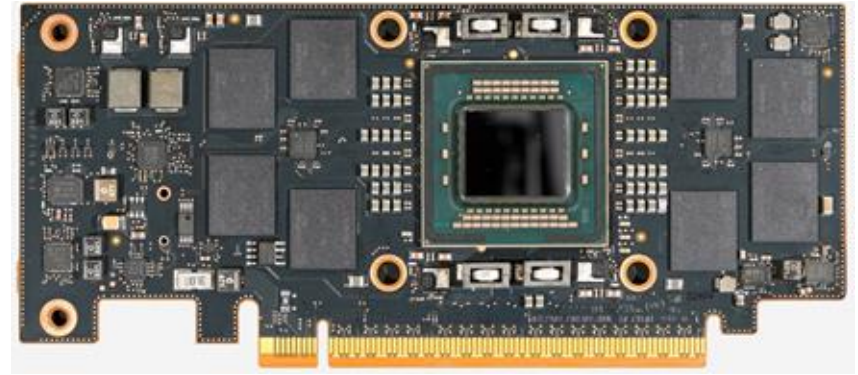


# IBM Spyre

AI Turnkey for companies



# IBM Spyre™ Accelerator - PCIe attached card



**Not a GPU !!**

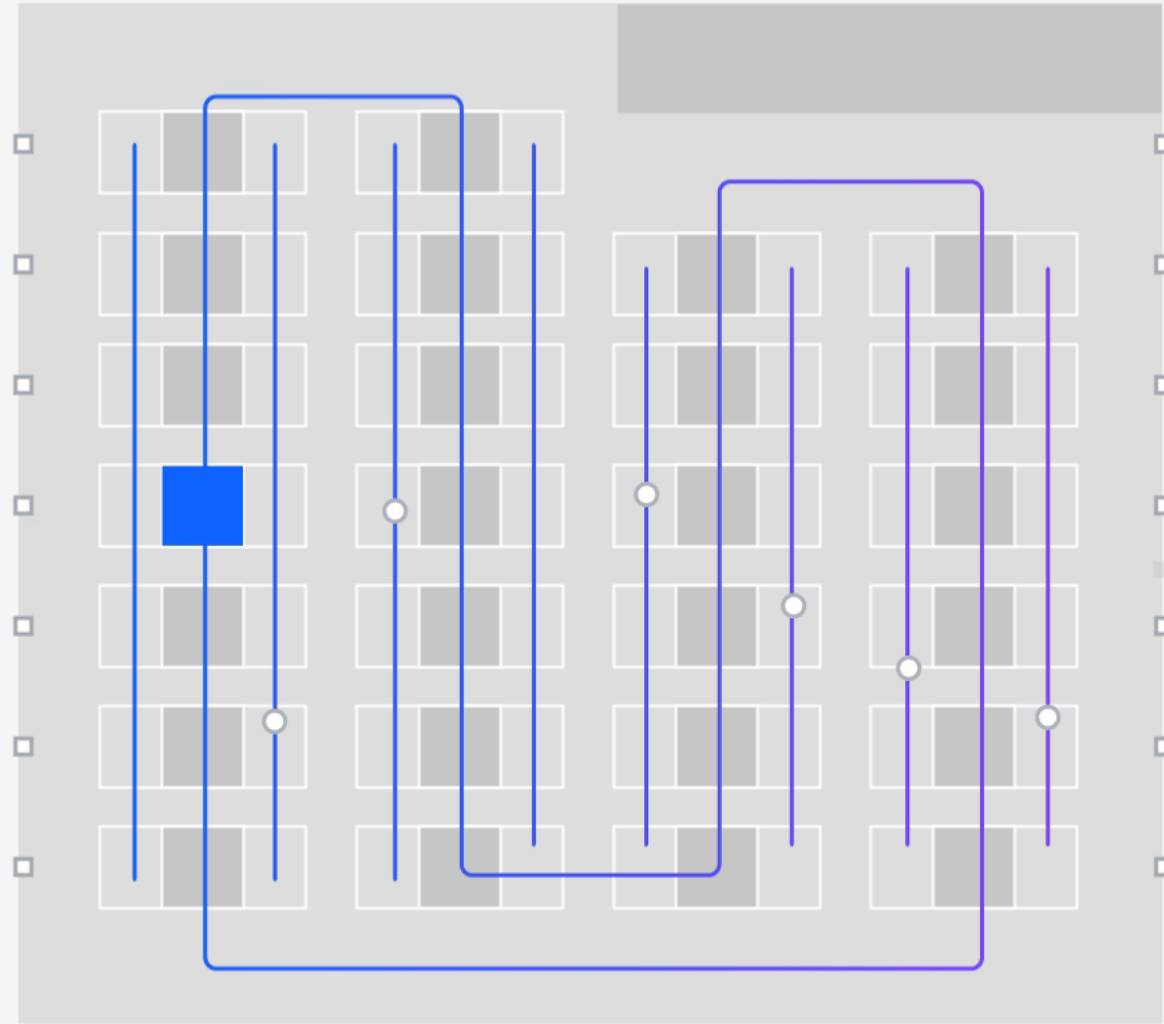
**Dedicated to inference, it is not a GPU**  
**32 AI Units core - 5nm**  
**300+ TOPS FP16**  
**128GB of LPDDR5 memory**  
**75W PCIe gen5 x16 adapter << of major GPUs**  
**Excellent perf/watts ratio**  
**Multi-precision inference FP16/8**

GPU Model	CUDA Cores	Tensor Cores	Power Usage (W)
NVIDIA V100	5120	640	250
<b>NVIDIA T4</b>	2560	320	<b>70</b>
NVIDIA A100	6912	432	400
NVIDIA RTX A6000	10752	336	300
NVIDIA A10	9216	288	150
<b>NVIDIA H100</b>	14592	456	<b>700</b>
<b>NVIDIA L40S</b>	18176	568	<b>350</b>
<b>NVIDIA L4</b>	7,424	240	<b>72</b>
NVIDIA B200	18944	592	<b>1000</b>

# Bidirectional Ring Interconnect Architecture

Each Spyre card integrates **32 AI Units** (AIUs), each with its own **2 MB local scratchpad** memory.

These AIUs are interconnected through a high-speed bidirectional ring, enabling **ultra-fast data exchange between compute units and local memory, eliminating data bottlenecks.**



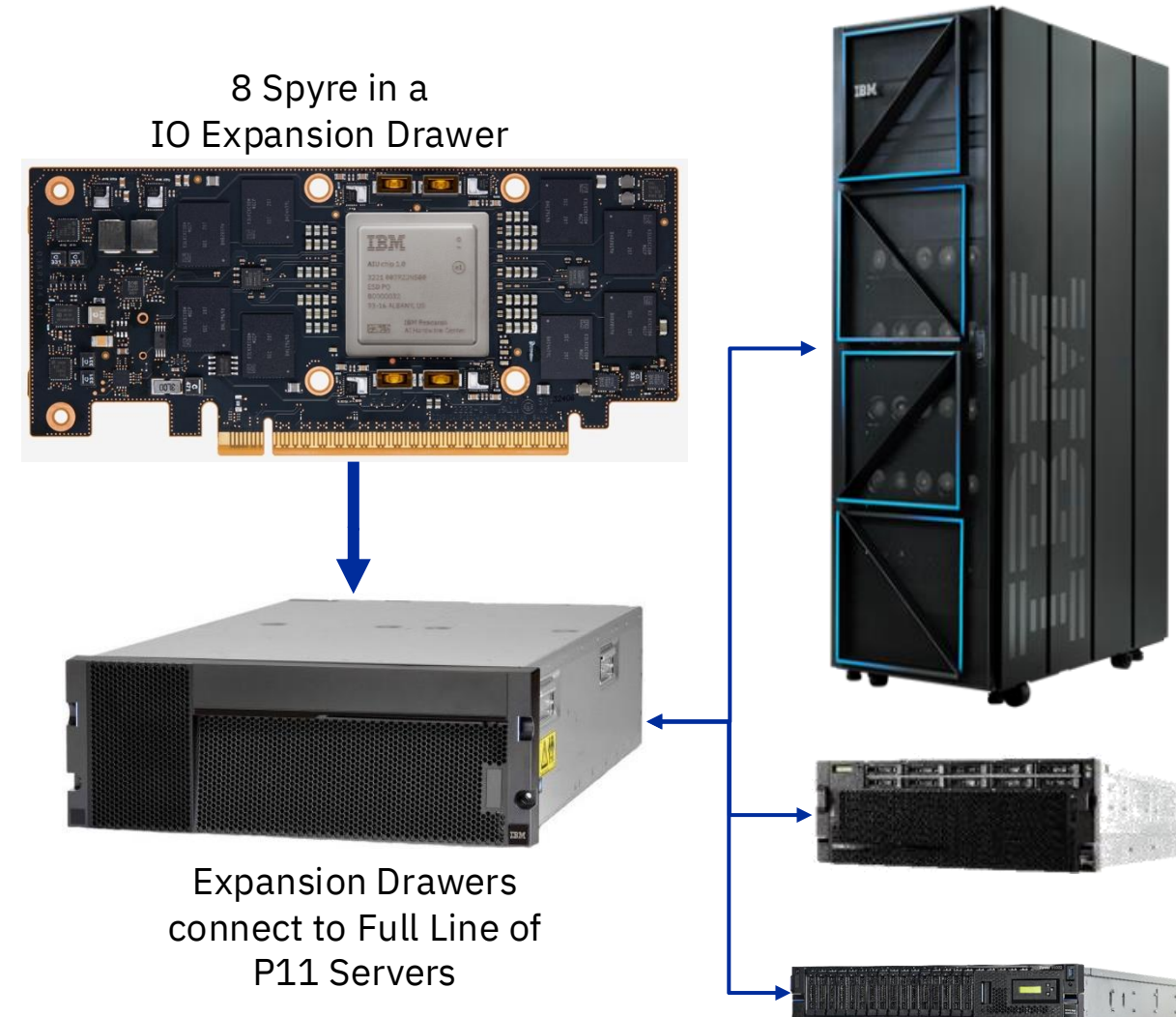
200GB/s	128B	32B
LPDDR5 connects to scratchpad	bidirectional ring connects scratchpads	bidirectional ring connects the cores

# GPU vs IBM Spyre Card

Feature	GPU	IBM Spyre Card
Primary purpose	Originally designed for graphics; now a general-purpose accelerator	Designed specifically for AI inference
Flexibility	Highly versatile	Optimized for LLM inference
AI workload	Training and inference	Primarily inference
Compute architecture	Thousands of parallel cores	Specialized AI Compute Units
Memory	VRAM (HBM/GDDR)	Dedicated VRAM + local Scratchpad Memory
Power efficiency	High performance but often high power	Optimized performance per watt
Examples	NVIDIA H100, AMD MI300	IBM Spyre

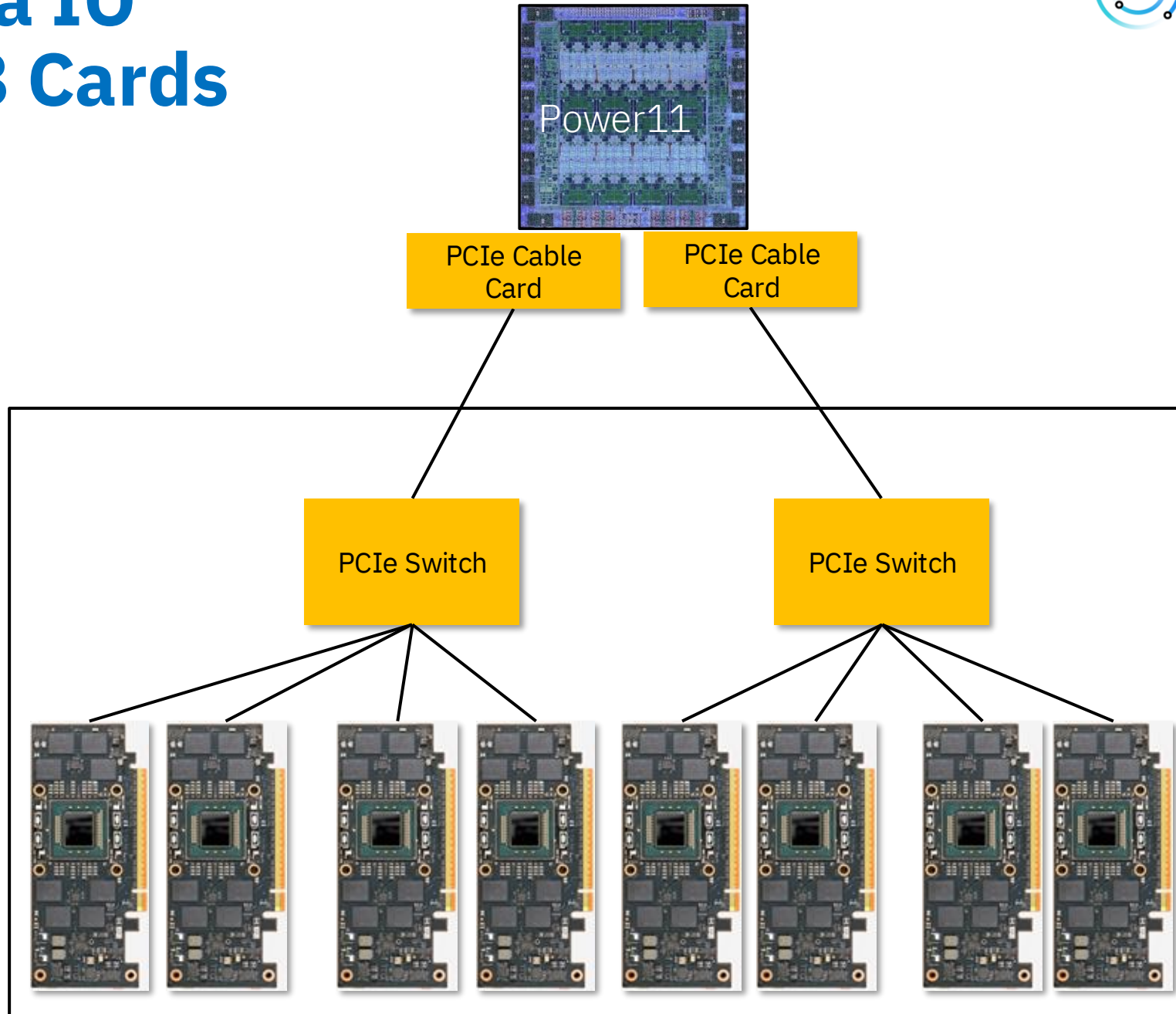
# IBM Spyre on Power

- **8 cards** in I/O Drawer form a logical cluster
- **1TB** of Memory
- **1.6TB** per second aggregate memory bandwidth
- **2400+** TOPS FP16
- Will be Integrated into AI SW Stacks, drivers, runtimes, optimized frameworks...



# System Integration via IO Drawer in a Batch of 8 Cards

- Two host connecting cable cards per drawer
- Groups of 4 cards are behind a PCIe Switch (Fanout Module)
- Software stack can share the models to distribute work across multiple **Spyre cards** to reduce inference latency
- Each Spyre card works on part of the problem



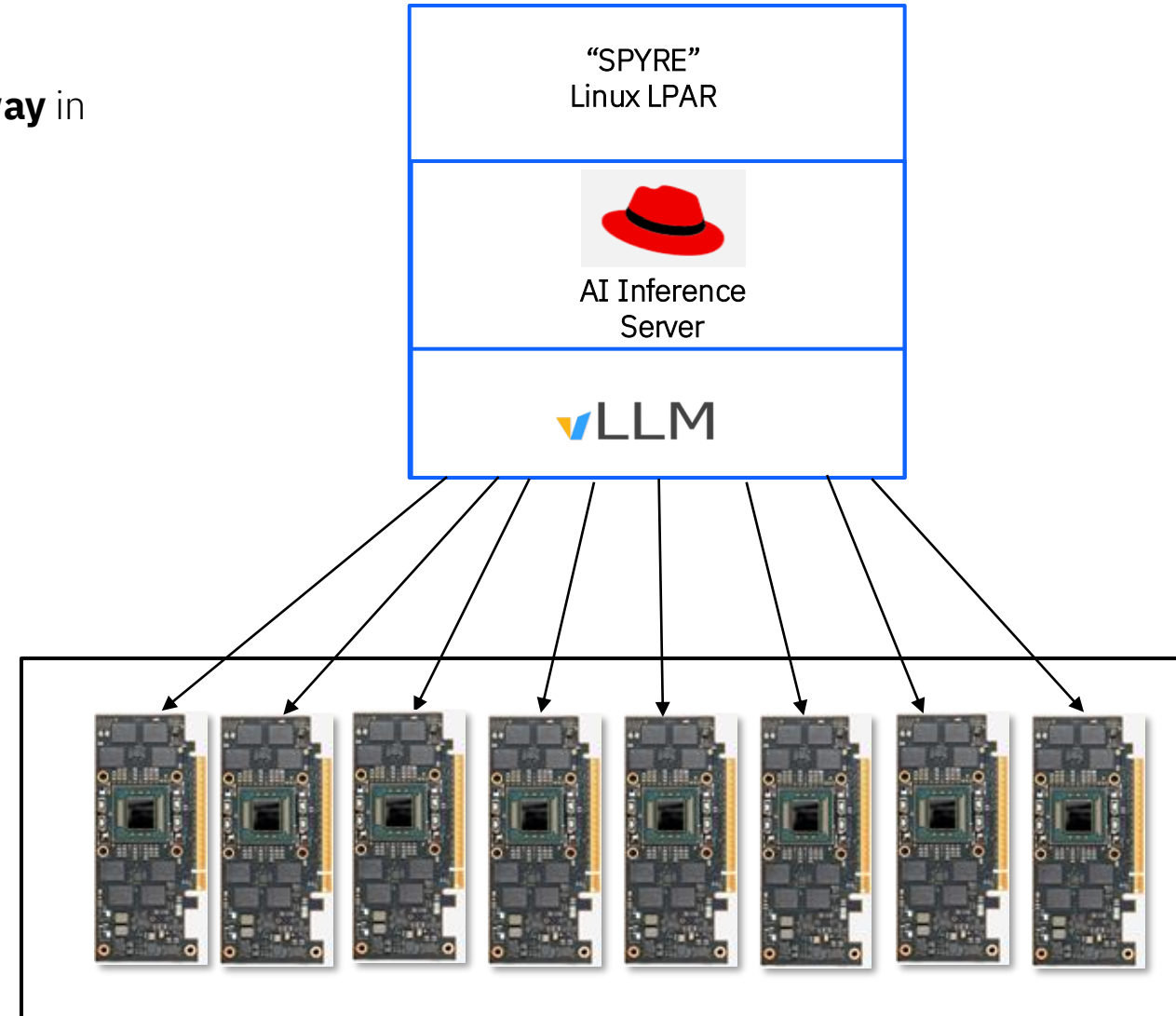
# vLLM organizes, Spyre speeds up

vLLM is an open-source inference engine that allows to **execute AI models in a fast, scalable and efficient way** in memory (optimized KV cache)

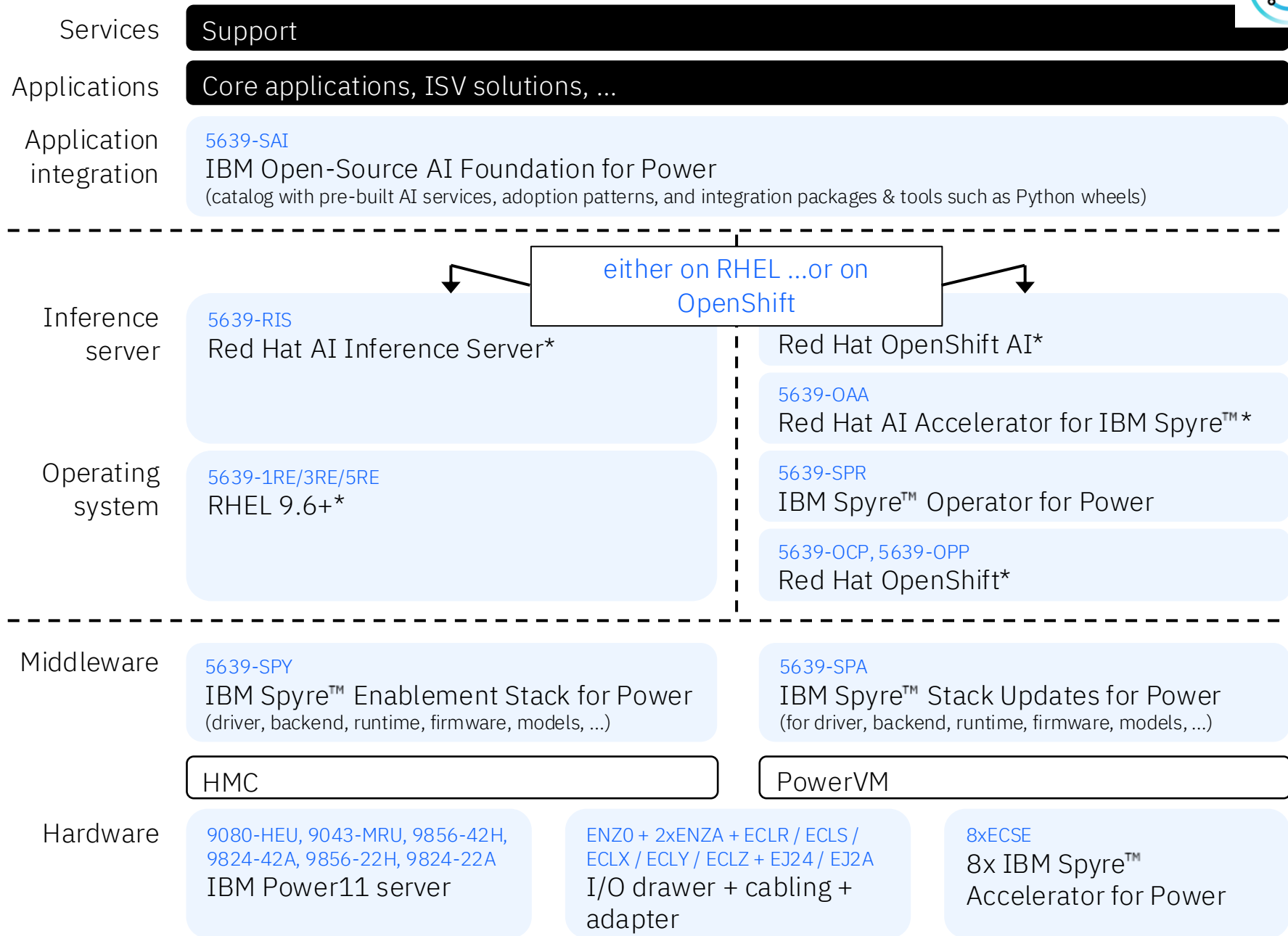
**vLLM dynamically groups requests, and maps IBM Spyre run batches in parallel.**

Results:

- Better bandwidth
- Less latency
- Better use of resources



# Spyre Stack



external

mandatory

optional

\*removal allowed if purchased via Red Hat. Support for those components will then come via Red Hat.

### Announcements

- [Software & services](#) (5639-SPY, 5639-SPA, 5639-RIS, 5639-SAI)
- [Hardware](#) (ECSE)

### Licenses & policies

- 5639-SAI: IPLA (warranted)
- [5639-RIS](#): RH Policies (warranted)
- [5639-OAI/5639-OAA/5639-OCP/5639-OPP](#): RH Policies (warranted)
- 5639-SPR: IPLA (warranted)
- [5639-SPY](#): ILAN (non-warranted)
- 5639-SPA: IPLA (warranted)

It's a **go shopping** in a catalog of production-ready use cases.

## Cross-industry

ITOps   Development		Enterprise Resource Planning	
IT service desk assistant	Code assistants (RPG, Ansible, ...)	BI & HR assistant	Supply chain forecasting
Detect & fix incidents agent	Forecast & plan capacity assistant	Order processing assistant	Product sales assistant
...		...	

And you could tailor them **without expensive customization**.

## Industry-specific

Banking & Finance	Healthcare	...and more
Analyst assistant (frauds, NPAs, ...)	Medical assistant	Claims & policy management agent
Predict NPAs	Medical transcription assistant	Private documents assistant
Open account agent	Claims & EHR matching agent	Agriculture assistant
Anti-money laundering	Medical image analysis assistant	Predict risk & underwrite assistant
360-degree view assistant	Real estate assistant	...
...		...

IBM Spyre is designed to accelerate **real enterprise AI use cases**, not just AI models.

The platform provides pre-built services and adoption patterns that enable organizations to quickly deploy many AI applications across multiple industries.

# Clients are aligning AI use cases with core workloads on IBM Power.

## Cross-industry Use cases

**ITOps | Development**

- System house DACH**  
IT service desk assistant
- MR WILLIAMS**  
Code assistants (RPG, Ansible, ...)
- Detect & fix incidents agent
- Forecast & plan capacity assistant

**Enterprise Resource Planning**

- BI & HR assistant
- Large retailer US**  
Supply chain forecasting
- Global Logistics**  
Order processing assistant
- Large retailer US**  
Product sales assistant

## Industry-specific use cases

**Banking & Finance**

- Demo TechXchange 2024**  
Analyst assistant (frauds, NPAs, ...)
- Infoss Finacle**  
Predict NPAs
- CREST**  
Open account agent
- Anti-money laundering

**Healthcare**

- SHIBUYA BY PULSEN**  
Medical assistant
- SIPH**  
Medical transcription assistant
- Claims & EHR matching agent
- SIPH**  
Medical image analysis assistant

**Insurance**

- Demo TechXchange 2025**  
Claims & policy management agent
- Predict risk & underwrite assistant

**Public**

- Gov. client DACH**  
Private documents assistant
- 360-degree view assistant

**...and more**

- SEMICON INDIA**  
Agriculture assistant
- MIDRANGE**
- BanFast**  
Real estate assistant

integrated  
Intelligent apps  
Adoptioin  
Patterns

**Assisted workflows**  
(deep integration of AI services into enterprise workflows)

**Digital advisors**  
(retrieval augmented generation, chat interactions, ...)

**Agentic collaborators**  
(tools & skills, autonomous orchestration, ...)

pre-built  
AI  
services

Manage knowledge (VectorDBs)

Serve models

Digitalize documents (manual, ...)

Find similar items

Q&A

Translate & summarize

Generate reports

Extract & tag information (PII, meta data, ...)

Transcribe (meetings, phone calls, ...)

NLP to SQL (Db2, Oracle, SAP HANA, ...)

# Digital assistants

being validating in IBM Spyre™ for Power Tech Preview program.

## Cross-industry

IOTops | Development

- System house
- IT service desk assistant
- Code assistants (RPG, Ansible, ...)
- Detect & fix incidents agent
- Forecast & plan capacity assistant

Enterprise Resource Planning

- BI & HR assistant
- Supply chain forecasting
- Order processing assistant
- Product sales assistant

## Industry-

Banking & Finance

- Analyst assistant (frauds, NPAs, ...)
- Predict NPAs
- Open account agent
- Anti-money laundering

Healthcare

- Medical assistant
- Medical transcription assistant
- Claims & EHR matching agent
- Medical image analysis assistant

Insurance

- Claims & policy management agent
- Predict risk & underwrite assistant

Public

- Gov. client DACH
- Private documents assistant
- 360-degree view assistant

...and more

- SEMICON INDIA
- Agriculture assistant
- BanFast FORVALTING
- Real estate assistant

## proven Adoption patterns

- Digital assistant (RAG, ...)
- Data & content management
- Recommender system
- Deep process integration
- Fraud detection
- Forecasting
- Image & video analytics

## pre-built AI services

- Manage knowledge (VectorDBs)
- Serve models
- Digitalize documents (manual, invoice, ...)
- Find similar items
- Q&A
- Translate & summarize
- Generate reports
- Extract & tag information (PII, meta data, ...)
- Transcribe (meetings, phone calls, ...)
- NLP to SQL (Db2, Oracle, SAP HANA, ...)

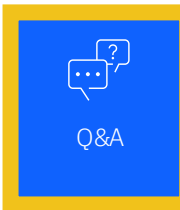
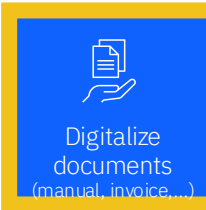
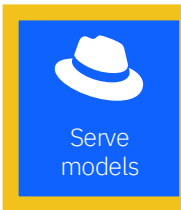
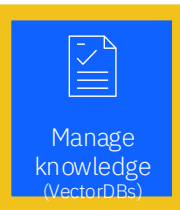
# RAG out-of-the-box

being validating in IBM Spyre™ for Power.






proven Adoption patterns



pre-built AI services



Open-source Technologies



Entity extraction is the process of automatically identifying and classifying relevant information (entities) from unstructured text

# Deep process integrations

being validating in IBM Spyre™ for Power Tech Preview program.

## Cross-industry

**ITOps | Development**

- IT service desk assistant
- Code assistants (RPG, Ansible, ...)
- Detect & fix incidents agent
- Forecast & plan capacity assistant

**Enterprise Resource Planning**

- BI & HR assistant
- Supply chain forecasting
- Order processing assistant**
- Product sales assistant

## Industry-

**Banking & Finance**

- Analyst assistant (frauds, NPAs, ...)
- Predict NPAs
- Open account agent**
- Anti-money laundering

**Healthcare**

- Medical assistant
- Medical transcription assistant
- Claims & EHR matching agent
- Medical image analysis assistant

**Insurance**

- Claims & policy management agent
- Predict risk & underwrite assistant

**Public**

- Private documents assistant
- 360-degree view assistant

**...and more**

- Agriculture assistant
- Real estate assistant

**proven Adoption patterns**

- Digital assistant (RAG, ...)
- Data & content management
- Recommender system
- Deep process integration**
- Fraud detection
- Forecasting
- Image & video analytics

**pre-built AI services**

- Manage knowledge (VectorDBs)
- Serve models**
- Digitalize documents (manual, invoice, ...)
- Find similar items
- Q&A
- Translate & summarize
- Generate reports
- Extract & tag information (PII, meta data, ...)**
- Transcribe (meetings, phone calls, ...)
- NLP to SQL (Db2, Oracle, SAP HANA, ...)

Real-life example:  
Extract ordering  
details in the order  
process automatically

Hans Geis, a logistics provider  
running their core ERP system  
on IBM i, integrates AI for a...

“5x increase in business  
process rate with AI  
integration into existing  
enterprise workflows.”

– Uwe Rempel, head of ZSI department, Geis Group<sup>1</sup>

**Disclaimer:** 1: “We achieve a 5x increase in business process rate with AI integration into our existing processes on IBM Power leveraging on-chip accelerator (MMA and SIMD) technology.” - Uwe Rempel, head of ZSI department, Geis Group. Measured in staging system of Hans Geis. Without AI it takes a senior employee 2 minutes / mail = 120 seconds / mail; with AI, they can completely automate 80% with 0 minutes processing time: (80%\*0 minutes+20%\* 2 minutes) / mail = 24 seconds / mail; leading to a factor of 5x: 120/24 = 5.



## Optimized

IBM has optimized accuracy & performance for enterprise use cases.

## Tested

Functionally working and exploring for enterprise use cases.

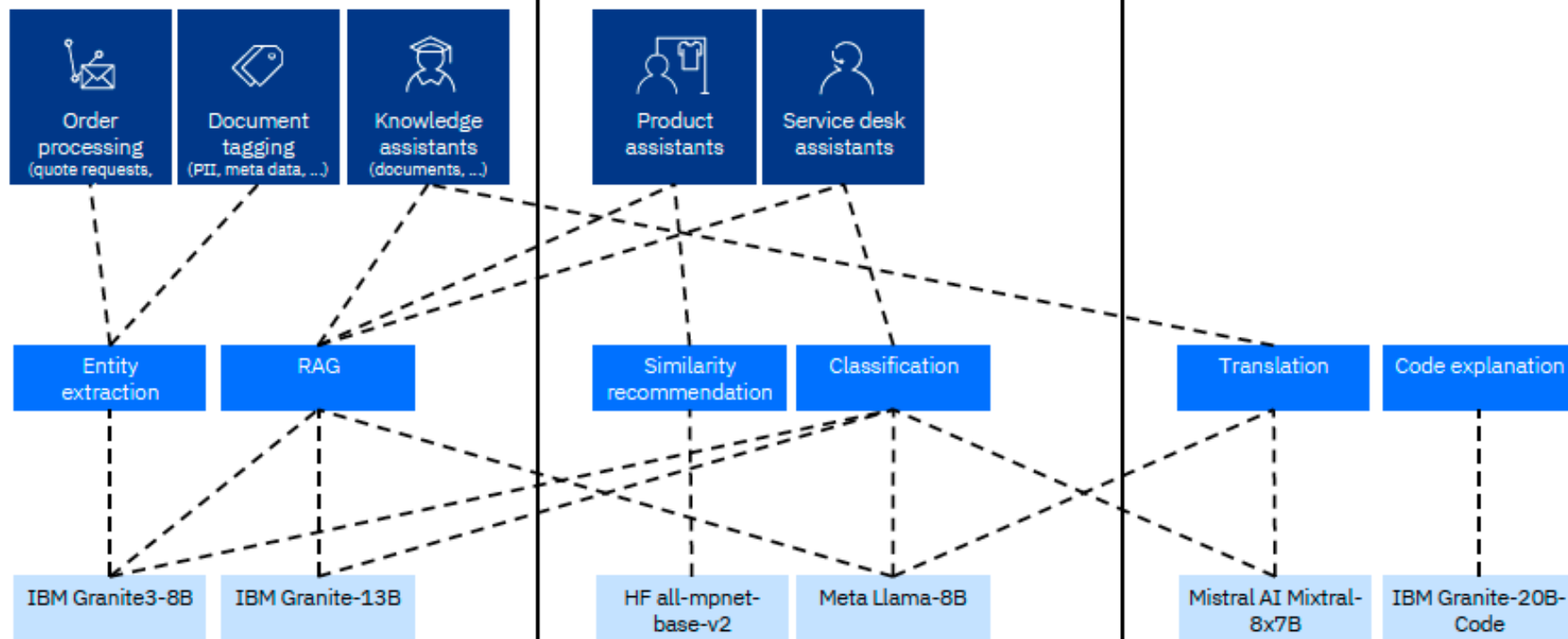
## Available

DIY exploration and experimentation of AI capabilities.





Enterprise use cases

AI capabilities

Models












## Enterprise use cases

IT Ops   Development	Enterprise Resource Planning	Banking and Finance	Healthcare	Insurance	Public	Other
 Code Assistant	 Detect & Fix Agent	 Forecast & Plan Capacity Assistant	 IT Service Desk Assistant			

## Adoption patterns

 Data & Content Management	 Deep Process Integration	 Digital Assistant	 Forecasting	 Fraud Detection	 Image & Video Analytics	 Recommender System
--	---	--	--	--	--	---

## Pre-built AI services

 Digitize Documents	 Extract & Tag Information	 Generate Reports	 Knowledge Management	 NLP to SQL	 Q&A	 Serve Models	 Similarity Search
 Transcribe	 Translate & Summarize						

Install services

# FINALLY, SPYRE SOLUTION IS :



1. An integrated hardware **AND** software offering
2. Turnkey solution with a catalog of ready to deploy use cases, AI services and deployment patterns.
3. IBM Spyre is designed to accelerate real enterprise AI workloads, not just AI model execution
4. Deploy AI as close as possible to your data to leverage Data Gravity
5. End-to-end IBM support for both hardware and software



Redbook : <https://www.redbooks.ibm.com/redpieces/abstracts/sg248592.html>

# Roadmap (subject to change)

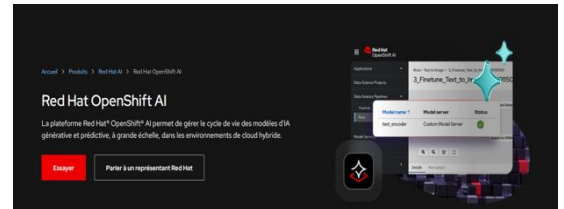
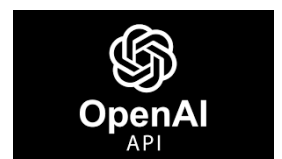
- AI service updates**
- Translate
  - Extract & Tag Information
  - NLP to SQL
  - Transcribe

- Model updates**
- LLMs: mistral-small-3.2-24b (Q2), granite4.1-8B (Q2), meta-llama-3.1-8B, mistral-3-14B-instruct(Q3), granite-3.3-2b-vision, mistral-small-3.2-24b-instruct-2506
  - Image-2-Text: granite-vision-3.3-2b(Q3)

- General updates**
- Performance improvements (FP8 support) (Q2)
  - +50% concurrent users

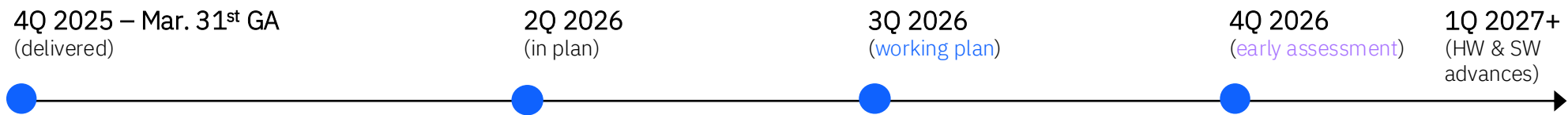
- General**
- Bring-your-own AI service
  - Experiment with AI services in IBM PowerVS
  - Bring your own models (2027)

- Hardware**
- 12 cards in a Drawer instead of 8
  - 2 X more I/O Drawer per server : E1180 : 1-4, Mid-Range. Scale-out : 1-2




Roadmap is subject to change; IBM has the right to change roadmap without prior notification.


# Delivery Roadmap




<p><b>IBM Open-Source AI Foundation for Power</b></p> <ul style="list-style-type: none"> <li>• Simplify integration (Power-optimized Python wheel ecosystem)</li> <li>• Support for 1Q26 catalog (containers released for AI services)</li> </ul>	<ul style="list-style-type: none"> <li>• Simplify integration continued (Python wheel currency &amp; additions)</li> <li>• Support for 2Q26 catalog</li> </ul>	<ul style="list-style-type: none"> <li>• Simplify integration continued (Python wheel currency &amp; additions)</li> <li>• Support for 3Q26 catalog</li> </ul>	<ul style="list-style-type: none"> <li>• Simplify integration continued (Python wheel currency &amp; additions)</li> <li>• Support for 4Q26 catalog</li> </ul>	
<p><b>Open-source innovation</b></p>				
<ul style="list-style-type: none"> <li>• <b>AI services</b> <ul style="list-style-type: none"> <li>▪ Digitize Documents (texts, tables, images)</li> <li>▪ Knowledge Management</li> <li>▪ Q&amp;A</li> <li>▪ Summarize</li> <li>▪ Similarity Search</li> </ul> </li> <li>• <b>UIs</b> <ul style="list-style-type: none"> <li>▪ Digital assistant prototype</li> <li>▪ Document ingestion UI</li> <li>▪ CLI-based installation</li> <li>▪ UI-based installation (prototype)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>General</b> <ul style="list-style-type: none"> <li>▪ Multi-language support (English, German)</li> <li>▪ Integration APIs (REST)</li> <li>▪ Deployment options (RHEL, OpenShift)</li> <li>▪ Air-gapped installation</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>AI service updates</b> <ul style="list-style-type: none"> <li>▪ Q&amp;A: accuracy improvements</li> <li>▪ Translate (English-German)</li> </ul> </li> <li>• <b>UI updates</b> <ul style="list-style-type: none"> <li>▪ UI-based installation</li> </ul> </li> <li>• <b>General updates</b> <ul style="list-style-type: none"> <li>▪ Try AI services in IBM PowerVS</li> <li>▪ Try AI services on-chip (MMA, SIMD)</li> <li>▪ Custom weights for supported models</li> <li>▪ Support for additional languages (Italian, French)</li> <li>▪ Backup and restore all data</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>AI service updates</b> <ul style="list-style-type: none"> <li>▪ Extract &amp; tag information</li> <li>▪ Forecast</li> </ul> </li> <li>• <b>UI updates</b> <ul style="list-style-type: none"> <li>▪ ERP auto-form-filling prototype</li> <li>▪ Sizing calculator</li> </ul> </li> <li>• <b>General updates</b> <ul style="list-style-type: none"> <li>▪ Additional languages (Japanese)</li> <li>▪ Integration with Power Mission Control</li> <li>▪ Offer AI services through MCP</li> </ul> </li> <li>• <b>Connector updates</b> <ul style="list-style-type: none"> <li>▪ Fetch &amp; digitize documents (i/AIX/Linux filesystems, Box, OneDrive)</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• <b>AI service updates</b> <ul style="list-style-type: none"> <li>▪ NLP to SQL</li> <li>▪ Detect anomalies</li> </ul> </li> <li>• <b>UI updates</b> <ul style="list-style-type: none"> <li>▪ Live monitoring &amp; audit logs</li> </ul> </li> <li>• <b>General updates</b> <ul style="list-style-type: none"> <li>▪ Additional languages (Spanish, Portuguese, Swedish)</li> <li>▪ Bring-your-own AI service</li> <li>▪ Agents create and manage architectures</li> </ul> </li> <li>• <b>Connector updates</b> <ul style="list-style-type: none"> <li>▪ Fetch structured data from Db2 for i</li> <li>▪ Call AI services via Db2 for i SQL</li> </ul> </li> </ul>
<p><b>RH AI Inference   RH OpenShift AI</b></p> <p><b>Models</b></p> <ul style="list-style-type: none"> <li>▪ <b>LLMs:</b> granite-3.3-8b-instruct</li> <li>▪ <b>Reranking:</b> bge-reranker-v2-m3</li> <li>▪ <b>Embedding:</b> granite-embedding-30m-English, granite-embedding-125m-English, granite-embedding-107m-multilingual, granite-embedding-278m-multilingual</li> </ul>		<p><b>RH AI Inference   RH OpenShift AI   External platforms (IBM watsonx.ai, OpenAI, ...)</b></p> <p><b>Model updates</b></p> <ul style="list-style-type: none"> <li>▪ <b>LLMs:</b> granite-4.1-8b-fp8, llama-3.1-8b-instruct (incl. support for custom weights), mistral-small-3.2-24b-instruct-2506</li> <li>▪ <b>Embedding:</b> multilingual-e5-large, multilingual-e5-large-instruct</li> <li>▪ <b>LLMs:</b> minstral-3-14b-instruct-2512-bf16</li> <li>▪ <b>Image-2-Text:</b> granite-3.3-2b-vision, mistral-small-3.2-24b-instruct-2506</li> <li>▪ <b>Embedding:</b> qwen3-embedding-0.6b (or qwen3-embedding-4b)</li> <li>▪ <b>Unlock significantly broader model ecosystem in 2027 (preparation for new model stack)</b></li> </ul>		
<p><b>IBM Spyre™ Accelerator for Power + IBM Power on-chip acceleration</b></p> <ul style="list-style-type: none"> <li>• Base performance (FP16 support)</li> <li>• Performance improvements (chunked prefill, prefix caching)</li> </ul>		<p><b>IBM Spyre™ Accelerator for Power   IBM Power on-chip acceleration   IBM Power Virtual Servers (with watsonx.ai aaS as external platform)</b></p> <ul style="list-style-type: none"> <li>• Performance improvements (FP8 support)</li> <li>• +2x concurrent users (12 cards in a drawer; expanded drawers: 1-4 HE, 1-2 MR&amp;1124)</li> <li>• RAS improvements (Enhanced Error Handling)</li> </ul>		




proven adoption patterns



catalog with pre-built AI services



inferencing platforms



accelerated infrastructure

*Thank you for your attention.*

Any Question



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