# IBM Power System LC921 – Performance in a space-saving design

*Linux server delivering two POWER9 processors in a dense 1U form factor*

## Highlights

- Ideal for dense compute, virtualization and container deployments requiring a balanced system design of throughput and density

- Ideal scaling capabilities leveraging PCIe 4.0 with InfiniBand CX-5 for dense computing deployments

- Maximize data center efficiency and reduce infrastructure cost

Data generation is growing at an exponential rate creating significant challenges to extract insights from these vast data flows. The IBM Power System LC921 is designed to meet these demands through industry-leading compute with 2 POWER9 processors in a compute-centric 1U server design leveraging the POWER9 advanced IO architecture for scaling efficiency. LC921 is designed to meet the data requirements of the AI era and enable new business insights that allow you to unlock competitive advantages.

The IBM Power System LC921 is a compute-dense 2-socket server that offers up to 40 cores and I/O configuration flexibility to meet today's growth and tomorrow's processing needs.

The Power LC921 provides:

- One or two IBM POWER9 processors
- Up to 40 cores
- 2 TB of memory DDR4 RDIMM memory
- Up to 40 TB of storage on HDD drives
- 4 2.5-inch NVMe Gen3 enabled drive bays

## Power System LC921 at a glance

### System configurations Model 9006-12P

| | |
|---|---|
| Microprocessors | 1x or 2x POWER9 CPUs, 16, 20-cores |
| Level 2 (L2) cache | 512 KB per core |
| Level 3 (L3) cache | 120 MB per chip |
| RAM (memory) | Up to 2 TB, from 16x DDR4 2667 IS DIMMs |
| Internal disk storage | Integrated MicroSemi PM8069 SAS/SATA 16-port Internal Storage Controller PCIe3.0 x8 with RAID 0, 1, 5, and 10 support (no write cache) |
| Processor-to-memory bandwidth | 170 GB/s peak memory BW per system in 2S system with 8x >=2R RDIMMs single drop and running at 2667 Mb/s (136 GB/s peak memory BW with all 16x RDIMMs populated, running 2133 Mb/s) |
| L2 to L3 cache bandwidth | |
| Internal disk bays | 4x LFF/SFF bays for SAS/SATA HDDs or SSDs and 4x available for NVMe gen3 in front |
| Media bays | n/a |
| Adapter slots | PCIe slots<br>• Two PCIe G4 x16 FHFL slots, CAPI 2.0 enabled<br>• One PCIe G4 x8 FHFL slots<br>• One PCIe G4 x8 LP slot, CAPI 2.0 enabled (internal) |

## Power System LC921 at a glance

### Standard features

| | |
|---|---|
| I/O ports | • 2x rear USB 3.0 ports<br>• Integrated Intel XL710 Quad Port 10GBase-T PCIe3.0 x8 UIO built-in LAN (one shared management port)<br>• Dedicated 1G IPMI port<br>• Rear VGA port |
| Connectivity support (optional) | |
| POWER Hypervisor™ | N/A |
| Advanced POWER Virtualization (option) | N/A |
| RAS features | • Concurrent Maintenance disks<br>• Redundant Hot plug Power |
| Operating systems | • Red Hat Enterprise Linux (RHEL) 7.5 little endian (LE) (POWER9), or later<br>• Ubuntu Server 18.04 LTS |
| Power requirements | Operating voltage: 1000 Watt @ 220 V AC, 800W @ 110 V AC |
| System dimensions | • Width: 441.5 mm (17.4 in.)<br>• Depth: 822 mm (32.4 in.)<br>• Height: 43 mm (1.7 in.)<br>• Weight: 13.38 kg (29.5 lb) |
| Warranty | 3-year limited warranty, CRU (customer replaceable unit) for all other units (varies by country) next business day 9am to 5pm (excluding holidays), warranty service upgrades and maintenance are available |

## Why IBM?

Power Systems™ are built for the most demanding, data-intensive, and compute-intensive workloads. POWER9 cloud-ready servers help you unleash insight from your data pipeline – from managing mission-critical data, to managing your operational data stores and data lakes, to delivering the best server for cognitive computing. For clients committed to Linux and open-source applications and infrastructure, the LC921 server, based on POWER9 processors, delivers superior throughput for Linux workloads and provides superior economics for scale-out deployments. With industry-leading performance and scalability, Power Systems are designed to crush the most data-intensive workloads imaginable.

## For more information

To learn more about the Power System LC921, please contact your IBM representative or IBM Business Partner, or visit the following website:
**ibm.com**/us-en/marketplace/power-system-lc921-and-lc922

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