

# Power systems ac922





## Overview

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What is IBM POWER system AC922?

Send us your comments about this paper or other IBM Redbooks publications in one of the following ways: The IBM Power System AC922 is the next generation of the IBM POWER processor-based systems, which are designed for deep learning (DL) and artificial intelligence (AI), high-performance data analytics (HPDA), and high-performance computing (HPC).

What is a power AC922?

The world's only server enabling NVIDIA NVLink between CPUs and GPUs, the Power AC922 delivers 5.6x the data movement of x86-based servers. This I/O enables GPU-based algorithms to leverage system memory, enabling models up to 60x larger than x86 based systems.

What is IBM POWER system AC922 (8335-gth)?

The IBM Power System AC922 (8335-GTH) system is based on POWER9™ processor-based technology. Use this information to find the planning, installing, removing, replacing, configuring, and troubleshooting procedures.

Does power AC922 support Linux?

The Power AC922 server supports Linux, which provides a UNIX-like implementation across many computer architectures. Linux on Power Systems. The Linux OS is an open source, cross-platform OS. It is supported on every Power Systems server IBM sells.

What are the operating environment specifications for the power AC922 server?

Table 3-2 provide the operating environment specifications for the Power AC922 server model GTX with four or six GPUs installed with 32 Gb or 16 Gb GPUs. a. Derate maximum allowable dry-bulb temperature 1°C (1.8°F) per 175 m above 950 m. IBM recommends a temperature of 18°C - 27°C (64°F -



80.6°F).

Can a power AC922 processor be mixed?

Processor features must be in quantities of two and cannot be mixed. The Power AC922 server is a two-socket system that supports two POWER9 SCM processor modules. The server supports a maximum of 16 DDR4 RDIMMs slots in the main system board directly connected to the POWER9 processor. Memory features equate to a single memory DIMM.



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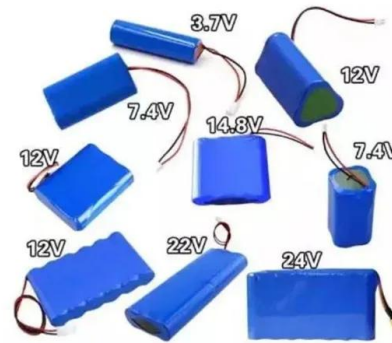


### IBM Power System AC922 Introduction and Technical Overview

The Power AC922 server is the next generation of the IBM Power processor-based systems, which are designed for deep learning and artificial intelligence (AI), high-performance analytics, and high-performance computing (HPC).

### [IBM Power Advanced Compute \(AC\) AC922 Server](#)

Power System AC922 internal components  
Modern AI, HPC and analytics workloads are driving an ever-growing set of data intensive challenges that can only be met with accelerated infrastructure. To help meet these demands, IBM Power Systems has for the



### Comparing and Contrasting the IBM Power System AC922 and

IBM Power System AC922: Master of High-Performance Computing Overview The IBM Power System AC922 is designed to excel in high-performance computing and artificial intelligence applications. Its robust framework has attracted many enterprises keen on



### IBM Power System AC922 (8335-GTG or 8335-GTH) Quick ...

18 IBM Power System AC922 (8335-GTG or 8335-GTH) Quick Install Guide Figure 35. Placing the tool at an angle on the top cover of the packaging Figure 36. Inspecting the thermal inter face material If the thermal interface material is



damaged, replace it.



- IP65/IP55 OUTDOOR CABINET
- OUTDOOR CABINET WITH AIR CONDITIONER
- OUTDOOR ENERGY STORAGE CABINET
- 19 INCH

### Engineered to be the most powerful training platform

Systems Hardware Data Sheet Every organization's AI journey is different. Flexible deployment options offer organizations ways to implement the Power AC922 in the way that best matches their infrastructure and business needs, whether on-premises or in the

### IBM Power Systems

IBM Power Systems AC922 Purpose-built for AI Training Faster Training Iterations Build more accurate models faster with high data throughput and faster AI model training times. Flexible Deployment Build and train AI models on-premises or in the cloud. ®



### [IBM POWER9 Systems AC922 Server Firmware](#)

1.0 Systems Affected This package provides firmware for the Power System AC922 (8335-G TH) and AC922 (8335-GTX) server s only. The firmware level in this package is: o OP920.00 / PNOR OP9\_v2.0\_2.14. and openBMC ibm-v2.1-438-r12 1.1 Minimum ipmitool Code Level

#### HEAT DISSIPATION

Cold aisle containment, making optimal refrigeration effect:





## IBM Power System AC922 Introduction and Technical Overview

viii IBM Power System AC922 Introduction and Technical Overview The project that produced this publication was managed by: Scott Vetter Executive Project Manager, PMP Thanks to the following people for their contributions to this project: Adel El-Hallak, Volker



### Installing and configuring the 8335-GTG or 8335-GTH

Use this information to install and configure the IBM® Power® System AC922 (8335-GTG or 8335-GTH) system and to install customer-installable hardware features. This ...

### IBM Power System AC922 Technical Overview and Introduction

The Power AC922 server is the next generation of the IBM POWER® processor-based systems, which are designed for deep learning (DL) and artificial intelligence (AI), high-performance ...



### Power Systems: Servicing the IBM Power System AC922 (8335 ...

Power Systems Servicing the IBM Power System AC922 (8335-GTX) IBM Note Before using this information and the product it supports, read the information in "Safety notices" on page v, "Notices" on page 241, the IBM Systems Safety Notices manual, G229 ®



IBM Power System AC922 , ??????? (?)

IBM Power System AC922 ?????? AI ??? ?? ??? ??  
?? ??? ?? ?? AC922 ????? ? ??? ?????????? 1? ?? 2??  
6?? 3.89 GHz POWER8 ????? ?? ?? 1? ?? 2?? 8??  
4.15 GHz POWER8 ?????



**Servicing the IBM Power System AC922 (8335-GTG or 8335-GTH)**

Power Systems Servicing the IBM Power System AC922 (8335-GTG or 8335-GTH) IBM Note Before using this information and the product it supports, read the information in "Safety notices" on page v, "Notices" on page 163, the IBM Systems Safety Notices ®



**IBM Power System AC922 Technical Overview and Introduction**

The Power AC922 server is the next generation of the IBM POWER® processor-based systems, which are designed for deep learning (DL) and artificial intelligence (AI), high-performance analytics, and high-performance computing (HPC).



**IBM Power System AC922**

OpenPOWER Ready is a mark used by the OpenPOWER Foundation to enable ecosystem product developers to indicate their product has been shown/demonstrated to meet a minimum set of characteristics and should be interoperable with other OpenPOWER







### PDF files for the IBM Power System AC922 (8335-GTH)

This topic contains links to PDFs for the IBM Power System AC922 (8335-GTH) documentation. Product legal notices Environmental and safety notices for IBM products are available at Environmental and safety notices. License Agreement for Machine Code (approximately 1.6 MB)



- ✓ ALL IN ONE
- ✓ 100Kw/174Kwh High Capacity
- ✓ Intelligent Integration

### ??????, POWER 9???????

?????????POWER 9????AC922????????????6??,????? ?????.??AC922?????????HPC Top500????AC922???POWER 9?????????,????????????? ...

### [IBM POWER9 Systems AC922 Server Firmware](#)

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### IBM Power System AC922 Technical Overview and Introduction

The Power AC922 server is the next generation of the IBM POWER® processor-based systems, which are designed for deep This IBM® Redpaper(TM) publication is a comprehensive guide that covers the IBM Power System ...





### [8335-GTX \(IBM Power System AC922\)](#)

The IBM Power System AC922 (8335-GTX) system is based on POWER9 processor-based technology. Use this information to find the planning, installing, removing, replacing, configuring, and troubleshooting procedures.



### **IBM Power System AC922 Introduction and Technical Overview**

This IBM® Redpaper publication is a comprehensive guide that covers the IBM Power System AC922 server (8335-GTG and 8335-GTW models). The Power AC922 server is the next ...

### **IBM POWER SYSTEM AC922 INSTALLING Pdf Download**

Page 1 Power Systems Installing the System and Ordered Parts for the IBM Power System AC922 (8335- GTX) Page 2 Note Before using this information and the product it supports, read the information in "Safety notices" on page v, "Notices" on page 113, the IBM Systems Safety Notices manual, G229-9054, and the IBM Environmental Notices and User Guide, Z125-5823. ...



### **IBM launches first Power9 server, AC922 Power Systems**

IBM has revealed the first device to use its new Power9 processor, the AC922 Power Systems server, designed for compute-heavy artificial intelligence workloads. IBM claims that, as the first system to embed PCIe 4.0, Nvidia NVLink and OpenCAPI, the AC922 enables data to move 9.5 times faster than on PCIe 3.0 based x86

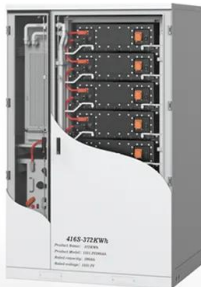


systems.



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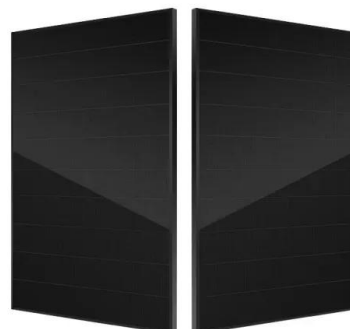


**Power Systems: Installing the System and Ordered Parts for the ...**

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**Cognitive Computing Featuring the IBM Power System AC922**

viii Cognitive Computing Featuring the IBM Power System AC922 Thanks to the following people for their contributions to this project: Mariano Batista, Carlos Cabañas, Scott Campbell, Glen Corneau, Luis F Armenta Garza, Tom Heller, Yesenia Jimenez, Anto A





### Power Systems

IBM Power System AC922(POWER9?2  
?????NVIDIA Tesla V100?2U) [5] 2018?2? -  
?????1?????(S:?????????L:Linux???????H:SAP HANA  
?????)?2?????????(9:POWER9)?3?????????4?????

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