

IBM z16 AGZ Configurations

IBM z16* AGZ at a glance														
Processor Core Types:														
Feature	Minimum					Maximum								
Type	CP	IFL	zIIP	ICF	IFP	PU	CP	IFL	zIIP	ICF	IFP	SAP	Spares	
Max5	0†	0†	0†	0	2	5	5	5	4	5	2	2	2	
Max16	0†	0†	0†	0	2	16	6	16	15	16	2	2	2	
Max32	0†	0†	0†	0	2	32	6	32	31	32	2	4	2	
Max68	0†	0†	0†	0	2	68	6	68	67	68	2	8	2	
Channels – Maximum Adapters														
	FICON Express					OSA-Express								
Max5 – Max68	48					48								
Inter-LPAR Communications														
HiperSockets™					Up to 32 high-speed ‘virtual’ Local Area Networks									
SMC-D					Up to 32 ISM virtual CHPIDs									
IBM zHyperLink™														
IBM zHyperLink Express1.1					16 adapters (32 Ports)- can be shared by multiple LPARs									
Coupling Links														
Internal Coupling maximum					64									
Coupling Express2 LR maximum					32 adapters §§ ††									
ICA SR1.1 maximum					24 adapters §§ ††									
Cryptography (60 AP Max)														
	Crypto Express8S (2-port adapters)			Crypto Express8S (1-port adapter)		Crypto Express7S (1-Port adapter)					Crypto Express6S (1-Port adapter)			
Max	20 adapters			16 adapters		16 adapters ***					16 adapters ***			
Compression Acceleration														
zEDC Express adapter not carried forward – Compression capability now on z16 processor chip														
RDMA over Converged Ethernet (RoCE) – SMC-R														
25 GbE RoCE Express3.0, 10 GbE RoCE Express3.0											8 adapters §§ †††			
Processor Memory														
Feature				Minimum					Maximum					
Max6				64GB					4TB					
Max16				64GB					4TB					
Max32				64GB					8TB					
Max68				64GB					16TB					
IBM Virtual Flash Memory														
Min:		0												
Max		2TB (ordered 0-4, in increments of 0.5TB)												

Upgradeability	
	Upgradeable within the IBM z16-A02 family ****
	No upgrade into Model A01
	Upgradeable from the IBM z15 Model T02™ and the IBM z14 Model ZR1

Operating Systems	
IBM z/OS®	z/OS z/OS 2.5 z/OS 3.2
IBM z/TPF	z/TPF 1.1 with PTFs
21CS VSE ⁿ	21CS VSE ⁿ 6.3 or VSE ⁿ 6.4
Linux® on IBM Z®	Canonical, Red Hat® and SUSE with their latest supported releases and versions; for the certified levels please see IBM tested platforms page: ibm.com/it-infrastructure/z/os/linux-tested-platforms
Supported Hypervisors	
IBM z/VM®	z/VM 7.3 z/VM 7.2
KVM	KVM hypervisor for IBM Z which is offered with the following Linux distributions from Canonical, Red Hat and SUSE, contact your Linux distributor for more information.

* If ordering a zIIP, at least one general purpose processor (CP) is required. Once a general purpose processor is on the IBM z16, there are no ratios or restrictions on the number of zIIP engines running on the IBM z16.

† There must be at least one CP, IFL or ICF ordered on the server. No IFL is required unless ordering an IFL only server—model capacity identifier 400. No ICF is required unless ordering an ICF only server—model capacity identifier 400. If you order a 400 no CP is orderable.

§ FICON Express with Intelligent Power Distribution (iPDU) allows for a maximum of 3 PCIe+ I/O drawers. Each adapter has 2 ports. FICON Express32S can be ordered new. When the Fibre Channel connection endpoints use the FICON Express 32S adapters to the IBM DS8900F storage, authentication of the endpoints is enabled. FICON Express16S+ is carry forward only.

†† OSA-Express adapters: OSA-Express7S 1.2 25 GbE SR has 1 port per adapter and can be ordered new. The OSA-Express7S 1.2 1000Base-T has 2 ports per adapter, OSA-Express7S 1.2 10 GbE has 1 port per adapter and OSA-Express7S 1.2 GbE has 2 ports per adapter. The OSA-Express6S are carry forward only and have 1/2 port(s) per adapter.

§§ Two ports per adapter

*** Carry forward only

††† Carry forward or new build

§§§ Provides the minimum physical memory required to hold purchase memory plus 256 GB HSA

**** Some restrictions may apply on upgradeability between adapters.

© Copyright IBM Corporation 2023

IBM, ibm.com, IBM logo, IBM Z, HyperSockets, zHyperLink, z16, z/OS, z/VM and z/VSE are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both.

The registered trademark Linux® is used pursuant to a sublicense from the Linux Foundation, the exclusive licensee of Linus Torvalds, owner of the mark on a worldwide basis. Java and all Java based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Red Hat®, JBoss®, OpenShift®, Fedora®, Hibernate®, Ansible®, CloudForms®, RHCA®, RHCE®, RHCSA®, Ceph®, and Gluster® are trademarks or registered trademarks of Red Hat, Inc. or its subsidiaries in the United States and other countries.