IBM z16 Model A02

IBM z16™ Model A02 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- T02™ and the IBM z14 Model ZR1

Operating Systems	
IBM z/OS®	z/OS z/OS 2.5 z/OS 2.4

IBM z/TPF	z/TPF 1.1 with PTFs
VSE	21st Century VSEn V6.3 For the latest supported releases and versions please see 21st Century product page https://www.21stcenturysoftware.com/

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 endpointsis 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.