

IBM z16 Model A01

IBM z16™ Model A01 at a glance													
Processor Core Types:													
Feature	Minimum					Maximum							
Type	CP	IFL	zIIP	ICF	IFP	CP	IFL	zIIP	ICF	IFP	SAP	Opt SAP	Spares
Max39	0†	0†	0†	0	2	39	39	25	39	2	5	8	2
Max82	0†	0†	0†	0	2	82	82	54	82	2	10	8	2
Max125	0†	0†	0†	0	2	125	125	82	125	2	15	8	2
Max168	0†	0†	0†	0	2	168	168	110	168	2	20	8	2
Max200	0†	0†	0†	0	2	200	200	132	200	2	24	8	2
Channels – Maximum Adapters													
	FICON Express on iPDU §					FICON Express on BPA **				OSA-Express on iPDU or BPA ††			
Max39 – Max200	192					160				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					48 adapters §§ ††								
Cryptography (60 AP Max)													
	Crypto Express8S (2-port adapters)			Crypto Express 8S (1-port adapter)	Crypto Express7S (1-Port adapter)				Crypto Express6S (1-Port adapter)				
Max	30 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 Express2.1, 10 GbE RoCE Express2.1, 10 GbE RoCE Express										16 adapters §§ †††			
Processor Memory													
Feature					Minimum					Maximum (BPA is ½ the maximum)			
Max39					512GB					10TB §§§			
Max82					512GB					20TB			
Max125					512GB					30TB			
Max168					512GB					40TB			
Max200					512GB					40TB			
IBM Virtual Flash Memory													
Min:		0											
Max		6TB (ordered 0-12, in increments of 0.5TB)											

Upgradeability	
	Upgradeable within the IBM z16 family ****
	No upgrade into features Max168 or Max200
	Upgradeable from the IBM z15™ and the IBM z14® M01-M05

Operating Systems	
z/OS®	z/OS V2.5 z/OS 2.4 z/OS 2.3
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
z/VSE®	z/VSE 6.2
z/TPF	z/TPF 1.1
Supported Hypervisors	
z/VM®	z/VM 7.2 z/VM 7.1.
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, one or more general purpose processor (CP) per the specialty engine is required. IBM has modified the ratio of zIIP to CPs to be 2:1. Up to two zIIP processors may be purchased for every general purpose processor purchased on the server.

† 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 12 PCIe+ I/O drawers. At Max125, this is limited to 11 PCIe+ I/O drawers. At Max39, this is limited to 6 PCIe+ I/O drawers. Each adapter has 2 ports. FICON Express16SA can be ordered new. When the Fibre Channel connection endpoints use the FICON Express 16SA adapters to the IBM DS8900F storage, authentication of the endpoints is enabled. FICON Express16S+, FICON Express16S and FICON Express8S are carry forward only.

** FICON Express with Bulk Power Assembly (BPA) allows for a maximum of 10 PCIe+ I/O drawers. Each adapter has 2 ports. FICON Express32 can be ordered new. When the Fibre Channel connection endpoints use the FICON Express32 adapters to the IBM DS8900F storage, authentication of the endpoints is enabled. FICON Express16S+, FICON Express16SA and FICON Express8S are carry forward only.

†† OSA-Express adapters: OSA-Express7S 25 GbE SR1.2 has 1 ports per adapter and can be ordered new. OSA-Express7S 25 GbE SR has one port per adapter and can carry forward. The OSA-Express7S 1000Base-T has 2 ports per adapter, OSA-Express7S 10 GbE has 1 port per adapter and OSA-Express7S GbE has 2 ports per adapter. The OSA-Express6S and OSA-Express5S 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. No upgrade into the z16 A01 from the z15 T02.

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