IBM z15 Model T01

IBM z15™ Model T01 at a glance													
Processor Core Types: CP / IFL / ICF / zIIP* / Standard SAP(s) / Addition or Optional SAP(s) / Spares													
Feature	Minimum							Maximum					
Max34	0†	0†	0†	0	4	0	2	34	34	34	22	4	8	2
Max71	0†	0†	0†	0	8	0	2	71	71	71	46	8	8	2
Max108	0†	0†	0†	0	12	0	2	108	108	108	70	12	8	2
Max145	0†	0†	0†	0	16	0	2	145	145	145	96	16	8	2
Max190	0†	0†	0†	0	22	0	2	190	190	190	126	22	8	2

(Note: Max34 row has 15 columns due to two Maximum headers spanning; values read: Feature, then Minimum CP/IFL/ICF/zIIP/SAP/AddSAP/Spares, then Maximum CP/IFL/ICF/zIIP/SAP/AddSAP/Spares)

Channels – Maximum Adapters			
	FICON Express on iPDU §	FICON Express on BPA **	OSA-Express on iPDU or BPA ††
Max34 – Max 190	192	176	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 - can be shared by multiple LPARs

Coupling Links	
Internal Coupling maximum	64
Coupling Express LR maximum	32 adapters §§ ††
ICA SR1.1 maximum	48 adapters §§ ††

Cryptography (60 AP Max)				
	Crypto Express7S (2-port adapters)	Crypto Express7S (1-port adapter)	Crypto Express6S	Crypto Express5S
Max	30 adapters	16 adapters	16 adapters ***	16 adapters ***

Compression Acceleration
zEDC Express adapter not carried forward – Compression capability now on z15 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
Max34	512GB	8TB §§§
Max71	512GB	16TB
Max108	512GB	24TB
Max145	512GB	32TB
Max190	512GB	40TB

IBM Virtual Flash Memory	
Min:	0
Max	6TB (ordered 0-12, in increments of 0.5TB)

Upgradeability	
	Upgradeable within the z15 family ****
	No upgrade into features Max145 or Max190
	Upgradeable from the IBM z13® and the IBM z14® M01-M05

Operating Systems	
z/OS®	z/OS V2.4 z/OS 2.3 z/OS 2.2
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 (Planned GA September 2020) z/VM 7.1 z/VM 6.4
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. 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 11 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 16S+ adapters to the IBM DS8900F storage, authentication of the endpoints is enabled. FICON Express16S+, FICON Express16S and FICON Express8S are carry forward only.

†† OSA-Express adapters: OSA-Express7S 25 GbE SR1.1 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 new 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 z15 T01 from the z15 T02.