

IBM z15 T02



IBM z15™ Model T02 at a glance														
Processor core types: CP / IFL / ICF / zIIP* / Standard SAP(s) / Additional or optional SAP(s) / Spares														
Feature	Minimum							Maximum						
Max04	0†	0†	0†	0	2	0	1	4	4	4	2	2	2	-
Max13	0†	0†	0†	0	2	0	1	6	13	13	7	2	2	-
Max21	0†	0†	0†	0	3	0	2	6	21	21	12	3	2	-
Max31	0†	0†	0†	0	4	0	2	6	31	31	12	4	8	-
Max65	0†	0†	0†	0	8	0	2	6	65	65	12	8	8	-
Up to 4 PCIe+ I/O drawers support the I/O adapters														
IBM FICON Express – Maximum adapters §														
FICON Express 16S+, FICON Express16S and FICON Express8S													64	
OSA-Express – Maximum adapters **														
OSA-Express7S 25 GbE SR, OSA-Express6S 1000Base-T, OSA-Express6S 10 GbE, OSA-Express6S GbE, OSA-Express5S 1000Base-T, OSA-Express5S 10 GbE, OSA-Express5S GbE													48	
IBM zHyperLink™ – Maximum adapters ††														
IBM zHyperLink Express1.1, IBM zHyperLink													16	
Cryptography – Maximum adapters §§														
Crypto Express7S – two Hardware Security Modules (HSM) per adapter													20	
Crypto Express7S, Crypto Express6S, Crypto-Express5S – all have 1 HSM per adapter													16	
RDMA over Converged Ethernet (RoCE) – SMC-R maximum adapters ***														
25 GbE RoCE Express2.1, 25 GbE RoCE Express2													8	
10 GbE RoCE Express2.1, 10 GbE Express2, 10 GbE RoCE Express													8	
Inter-LPAR communications														
HiperSockets™ - High-speed 'virtual' Local Area Networks maximum													32	
SMC-D – Internal shared memory (ISM) virtual CHPIDs maximum													32	
Coupling														
Internal Coupling Links (ICP links)													64	
Coupling Express LR maximum adapters †††													32	
ICA SR1.1, ICA SR, maximum adapters †††													24	
Compression acceleration														
zEDC Express adapter not carried forward – Compression capability now on z15 processor chip														
Processor memory														
Feature	Minimum							Maximum						
Max04	64GB							2TB §§§						
Max13	64GB							4TB						
Max21	64GB							4TB						
Max31	64GB							8TB						
Max65	64GB							16TB						
IBM Virtual Flash Memory														
Min:	0													
Max	2TB (ordered 0-4, in increments of 0.5TB)													

Upgradeability	
	Upgradeable within the T02 ****
	Upgradeable from IBM z14 [®] ZR1
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.

* Up to two zIIP processors may be purchased for every CP 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 A00. No ICF is required unless ordering an ICF only server—model capacity identifier A00. If you order a A00 no CP is orderable.

§ All FICON Express adapters have two ports. FICON Express 16S+ can be ordered new or carried forward. FICON Express16S and FICON Express8S are carry forward only.

** OSA-Express7S 25 GbE SR has one port per adapter and can be ordered new or carried forward. OSA-Express6S 1000Base-T has two ports per adapter, OSA-Express6S 10 GbE has one port per adapter and OSA-Express6S GbE has two ports per adapter. The OSA-Express6S adapters can be ordered new or carried forward. OSA-Express5S 1000Base-T has two ports per adapter, OSA-Express5S 10 GbE has one port per adapter and OSA-Express5S GbE has two ports per adapter. The OSA-Express5S adapters can only be carried forward.

†† IBM zHyperLink1.1 has two ports per adapter and is ordered new. IBM zHyperLink has two ports per adapter and can be carried forward.

§§ Crypto Express7S (feature code 0898) has two Hardware Security Module (HSM) per adapter and is ordered new. Crypto Express7S (feature code 0899) has one HSM per adapter and is ordered new. Crypto Express6S and Crypto Express5S have one coprocessor per adapter and can be carried forward.

*** 25 GbE RoCE Express2.1 has one port per adapter and is ordered new. 25 GbE RoCE Express2 has one port per adapter and is carry forward only. 10 GbE RoCE Express2.1 has two ports per adapter and is ordered new. 10 GbE RoCE Express2 and 10 GbE RoCE Express have two ports per adapter and are carry forward only.

††† Two ports per adapter

§§§ Provides the minimum physical memory required to hold purchase memory plus 160 GB HSA

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

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