

## IBM z14 Model ZR1

<b>IBM z14 Model ZR1 at a glance</b>		
Processor Core Types: CP / IFL / ICF / zIIP* / Standard SAP(s) / Additional/Optional SAP(s) / Spares		
	Minimum	Maximum
Max4	0 <sup>†</sup> / 0 <sup>†</sup> / 0 <sup>†</sup> / 0 / 2 / 0 / 1	4 / 4 / 4 / 2 / 2 / 2 / 1
Max12	0 <sup>†</sup> / 0 <sup>†</sup> / 0 <sup>†</sup> / 0 / 2 / 0 / 1	6 / 12 / 12 / 8 / 2 / 2 / 1
Max24	0 <sup>†</sup> / 0 <sup>†</sup> / 0 <sup>†</sup> / 0 / 2 / 0 / 1	6 / 24 / 24 / 12 / 2 / 2 / 1
Max30	0 <sup>†</sup> / 0 <sup>†</sup> / 0 <sup>†</sup> / 0 / 2 / 0 / 1	6 / 30 / 30 / 12 / 2 / 2 / 1
Channels		
	FICON Express16S+ / FICON Express16S <sup>§</sup> / FICON Express8S <sup>§</sup> / OSA-Express7S 25 GbE / OSA-Express6S / OSA-Express5S <sup>§</sup> / OSA-Express4S 1000-BaseT <sup>§</sup>	
Max4	Maximum features <sup>**</sup> : 16 / 16 / 16 / 16 / 16 / 16	
Max12	Maximum features <sup>**</sup> : 32 / 32 / 32 / 32 / 32 / 32	
Max24, Max30	Maximum features <sup>**</sup> : 64 / 64 / 64 / 48 / 48 / 48	
HiperSockets	Up to 32 high-speed “virtual” Local Area Networks	
IBM zHyperLink		
IBM zHyperLink Express	16 features <sup>**</sup> - can be shared by multiple LPARs	
Coupling Links		
IC maximum	32	
ICA SR		
Max4	Maximum features: 2 <sup>**</sup>	
Max12	Maximum features: 4 <sup>**</sup>	
Max24, Max30	Maximum features: 8 <sup>**</sup>	
Coupling Express LR maximum	16 features <sup>**</sup>	
Cryptography		
Crypto Express6S / Crypto Express5S <sup>§</sup>	Minimum 0, then 2, then up to 16 features	
Compression Acceleration		
zEDC Express	8 features - minimum recommended is 2	
RDMA over Converged Ethernet (RoCE)		
10 GbE RoCE Express2, 10 GbE RoCE Express <sup>§§</sup> , 25 GbE RoCE Express2	4 features <sup>**</sup> - minimum recommended is 2	
Processor Memory		

	Minimum	Maximum
Max4	64 GB	2 TB <sup>††</sup>
Max12	64 GB	4 TB
Max24, Max30	64 GB	8 TB
IBM Virtual Flash Memory	Min: 0 Max: 2 TB (ordered 0 - 4, in increments of 512 GB)	
Upgradeability	Upgradeable within the z14 ZR1 family Upgradeable from IBM z13s	
Supported Operating Systems		
z/OS	z/OS V2.3 z/OS V2.2 z/OS V2.1 z/OS V1.13 (compatibility only) Available via IBM Software Support Services	
Linux on IBM Z	Canonical, Red Hat and SUSE; for the minimum and recommended levels see IBM Tested platforms page: <a href="http://ibm.com/systems/z/os/linux/resources/testedplatforms.html">ibm.com/systems/z/os/linux/resources/testedplatforms.html</a>	
z/VSE	z/VSE V6.2 z/VSE V6.1 z/VSE V5.2	
z/TPF	z/TPF 1.1	
Supported Hypervisors		
z/VM	z/VM 6.4 z/VM 7.1	
KVM	KVM offered with the Linux distributions	

\* 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 A00. No ICF is required unless ordering an ICF only server—model capacity identifier A00. If you order a A00 no CP is orderable.

§ Carry forward only

\*\* Two ports per feature

†† Provides the minimum physical memory required to hold base purchase memory plus 64 GB HSA

§§ When RoCE Express is carried forward and used in combination with a RoCE Express2 the maximum combination cannot exceed 4 features

To view the full asset, click [here](#)