

IBM® LinuxONE Rockhopper 4 Technical Specifications

IBM® LinuxONE Rockhopper 4 at a glance									
Processor Core Types:									
Feature	Minimum				Maximum				
	IFL	IFPs	SAP	Spares	CP	IFL	IFPs	SAP	Spares
Type									
Max5	1†	2	2	0	1	5	2	2	2
Max16	1†	2	2	0	1	16	2	2	2
Max32	1†	2	4	0	1	32	2	4	2
Max68	1†	2	8	0	1	68	2	8	2
Channels – Maximum Adapters									
	Adapters			Ports					
FICON Express 32S SX/LX	4 8			96 Ports					
OSA Express 7S 1.2 (1000BT/1G)	4 8			96 Ports					
OSA Express 7S 1.2 (10G/25G)	4 8			48 Ports					
IBM Adapter for NVMe 1.1 SSB	1 6			1 Slot					
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									
Coupling Express2 LR maximum				32 adapters, 64 Ports					
ICA SR1.1 maximum				24 adapters, 48 Ports					
Cryptography (60 AP Max)									
Crypto Express8S (2-port adapters)	20 adapters			40 HSMs					
Crypto Express8S (1-port adapter)	16 adapters			16 HSMs					
Compression Acceleration									
Compression capability now on IBM LinuxONE Rockhopper 4 processor chip									
RDMA over Converged Ethernet (RoCE) – SMC-R									
25 GbE RoCE Express3.0, 10 GbE RoCE Express3.0							8 adapters, 16 ports		
Processor Memory									
Feature	Minimum				Maximum				
Max6	64 GB				4 TB				
Max16	64 GB				4 TB				
Max32	64 GB				8 TB				
Max68	64 GB				16TB				
IBM Virtual Flash Memory									
Min:	0								
Max	2TB (ordered 0-4, in increments of 0.5TB)								

Operating Systems	
Linux®	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	
z/VM®	z/VM 7.3 z/VM 7.2
KVM	KVM hypervisor which is offered with the following Linux distributions from Canonical, Red Hat and SUSE, contact your Linux distributor for more information.

†There must be at least one IFL ordered on the server.

© Copyright IBM Corporation 2023

IBM, ibm.com, IBM logo, HiperSockets, zHyperlink and z/VM are trademarks or registered trademarks of International Business Machines Corporation in the United States, other countries, or both.

The registered trademark Linux® is used pursuant to a sublicense from the Linux Foundation, the exclusive licensee of Linus Torvalds, owner of the mark on a worldwide basis. Java and all Java based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Red Hat®, JBoss®, OpenShift®, Fedora®, Hibernate®, Ansible®, CloudForms®, RHCA®, RHCE®, RHCSA®, Ceph®, and Gluster® are trademarks or registered trademarks of Red Hat, Inc. or its subsidiaries in the United States and other countries.

