

IBM LinuxONE III Model LT2 specification sheet



IBM® LinuxONE III Model LT2 at a glance								
Processor core types: CP IFL Standard SAPs Additional or optional SAPs								
Feature	Minimum				Maximum			
Max04	0*	1	2	0	1	4	2	2
Max13	0*	1	2	0	1	13	2	2
Max21	0*	1	3	0	1	21	3	2
Max31	0*	1	4	0	1	31	4	8
Max65	0*	1	8	0	1	65	8	8
Up to 4 PCIe+ input/output (I/O) drawers support the I/O adapters								
IBM FICON® Express – Maximum adapters †								
FICON Express 16S+ and IBM Fibre Channel Protocol (FCP) Express32S (128 channels)							64	
OSA-Express – Maximum adapters §								
OSA-Express6S 1000Base-T, OSA-Express6S 10 GbE, OSA-Express6S GbE							48	
Cryptography – Maximum adapters **								
Crypto Express7S (2-port)							20	
Crypto Express7S (1-port)							16	
Remove direct memory access (RDMA) over Converged Ethernet (RoCE) – IBM Shared Memory Communication - Remote Memory Access (SMC-R) maximum adapters ††								
25 GbE RoCE Express2.1							8	
10 GbE RoCE Express2.1							8	
Intrasystem communications								
IBM Shared Memory Communication – Direct Memory Access (SMC-D)			Up to 32 Internal Shared Memory (ISM) virtual Channel Path Identifiers (CHPIDs)					
Special purpose								
zEnterprise Data Compression (zEDC) Express adapter not carried forward – Compression capability now on LinuxONE processor chip								
IBM adapter for Non-Volatile Memory Express (NVMe) cards							16	
Processor memory								
Feature	Minimum				Maximum			
Max04	64 GB				2 TB §§			
Max13	64 GB				4 TB			
Max21	64 GB				4 TB			
Max31	64 GB				8 TB			

Max65	64 GB	16 TB
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		
IBM z/VM® operating system	z/VM 7.2 (Planned GA September 2020) z/VM 7.1 z/VM 6.4	
KVM	KVM hypervisor for IBM LinuxONE servers, which is offered with the following Linux distributions from Canonical, Red Hat and SUSE; contact your Linux distributor for more information.	

* At least 1 Integrated Facility for Linux (IFL) is required unless ordering an IFL only server—model capacity identifier A00. If you order an A00, no central processor (CP) is orderable.

† Two ports per adapter.

§ OSA-Express7S 25 GbE SR1.1 has one port per adapter. 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.

** Crypto Express7S (feature code 0898) has two ports per adapter. Crypto Express7S (feature code 0899) has one port per adapter and is ordered new.

†† 25 GbE RoCE Express2.1 has one port per adapter. 10 GbE RoCE Express2.1 has two ports per adapter.

§§ Provides the minimum physical memory required to hold purchase memory plus 160 GB heterogeneous systems architecture (HSA)

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