DELL Technologies

Specification Sheet

Metro node appliances

Enable automated business continuity with true active-active synchronous replication over metro or local distance

Product Overview

Enable automated business continuity with zero RPO and RTO with metro node. True active-active synchronous replication over metro or local distance with multi-site dual access gives organizations full confidence that their data will always be available and accessible.

Metro node provides greater flexibility through multi-platform support and replication to any array and has zero performance impact on the storage array. The Dell branded metro node appliance supports all block-capable Dell arrays including PowerVault, PowerStore, and PowerMax. The metro node appliance also supports some legacy Dell storage arrays and many 3rd party storage arrays. To see all the storage systems supported, please see the Dell E-Lab Simple Support Matrix at the link below.

Available Models

There are two metro node appliance models: mn-114 and mn-215. Two tandem units form a cluster. Detailed specifications are found in the tables below.

mn-114

mn-215

Note: The images of mn-114 and mn-215 above have standard Dell bezels. The product ships with Dell LCD bezels.

Mechanical	Model mn-114	Model mn-215
Dimensions and weight	Height: 42.8mm (1.69”) Width: 482.0mm (18.98”) Depth: 808.5mm (31.8”) Weight: 21.9kg, (48.3 lbs.)	Height: 86.8mm (3.41”) Width: 736.29mm (28.9”) Depth: 434mm (17.0”) Weight: 35.3kg, (77.8 lbs.)
Form factor	2U (2 x 1U units comprise a metro node cluster)	4U (2 x 2U units comprise a metro node cluster)
Bezel	1U LCD bezel	2U Dell LCD bezel
Mounting rails	Rails support Dell and non-Dell racks	Rails support Dell and non-Dell racks
Cable Set	• 2 x 1U cable management arms • MGMT1 and MGMT2 Cat 6 shielded Ethernet cables • LCOM1 and LCOM2 SFP+ direct attach passive copper cables • Two black power cords for primary utility connections • Two gray power cords for secondary utility connections • One red Cat 6 shielded Ethernet cable for temporary service connection	• 2 x 2U cable management arms • MGMT1 and MGMT2 Cat 6 shielded Ethernet cables • LCOM1 and LCOM2 SFP28 direct attach passive copper cables • Two black power cords for primary utility connections • Two gray power cords for secondary utility connections • One red Cat 6 shielded Ethernet cable for temporary service connection

System Architecture	Model mn-114	Model mn-215
Processors	2 x Intel® Silver 4208 (85W)	2 x Intel® Xeon® Gold 6334 (165W)
Memory	64GB RDIMM Memory (32GB per CPU)	64GB RDIMM Memory (32GB per CPU)
Cluster size	2 x metro node mn-114 units (each 1U)	2 x metro node mn-215 units (each 2U)
Management	Embedded in the metro node operating system	Embedded in the metro node operating system
Storage (OS Drives)	480GB SSD SATA drive per server	960GB SSD SATA drive per server
Power supplies	2 x 750W power supplies per server, Redundant (one active at a time per server), Hot Pluggable Total 4 number of power supplies per cluster	2 x 1400W power supplies per server, Redundant (one active at a time per server), Hot Pluggable Total 4 number of power supplies per cluster
Operating system	Metro node operating system	Metro node operating system
IO Card Configurations	**PCIe Slot 1 and 2**: Dual Port 32Gb/s FC HBAs, LP (FE/BE) **PCIe Slot 3**: Quad Port 10GbE Base-T (RJ45) LP NIC (MGMT/SVC/CUST) **rNDC Slot**: Quad Port 10GbE SFP+ NIC with 2x SFP+ 10GbE, 850nm transceivers (LCOM/WAN)	**PCIe Slot 1:** Dual Port 10/25GbE SFP28 FH NIC (WAN-IP) **PCIe Slot 2:** Dual Port 32Gb/s FC HBAs, FH (WAN-FC) **PCIe Slot 3:** Dual Port 10GbE Base-T (RJ45) LP NIC (SVC/CUST) **PCIe Slot 4/5/7/8:** Dual Port 32Gb/s FC HBAs, FH (FE/BE) **OCP Slot**: Dual 10/25GbE SFP28 NIC (LCOM) **LOM Card (LAN on Motherboard):** Dual Port 1GbE NIC (MGMT)

Cluster Witness Server	Model mn-114	Model mn-215
Optional: metro node cluster witness server	Available for VMware ESXi and Microsoft Hyper-V environments. Metro node cluster witness server allows for a dedicated VM in a separate domain to provide additional failover automation. Metro node cluster server witness can also be deployed on a bare metal server. See the E-Lab Simple Support Matrix link below for details. Starting with metro node OS version 7.1, a cloud-base version is also supported for Amazon Web Services (AWS).	Available for VMware ESXi and Microsoft Hyper-V environments. Metro node cluster witness server allows for a dedicated VM in a separate domain to provide additional failover automation. Metro node cluster server witness can also be deployed on a bare metal server. See the E-Lab Simple Support Matrix link below for details. Starting with metro node OS version 8.0 a cloud-base version is also supported for Amazon Web Services (AWS).

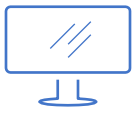
System Capacities	Model mn-114	Model mn-215
Virtual volumes	8,000 metro and 10,000 local	12, 000 metro and 10,000 local
Storage volumes	8,000 metro and 10,000 local	12,000
Storage views	1,000	1,000
Storage volume size	64TB	64TB
Virtual volume size	64TB	64TB
Consistency Groups	1,024	1,024
Volumes per Consistency Groups	1,000	1,000
Clusters	2	2
IT nexus per cluster	3,200	6,400
IT nexus per front-end-port	800	800

Power and heat	Model mn-114	Model mn-215
Total power consumption (watts)	492.3	867.3
Heat dissipation (btu/h)	1679.8	2959.4
Airflow Rate (l/s)	18.4	37.1
Sound power level (bels)	7.1	7.2

Note: Values represent per node/server

Operating Systems, Dell Storage Array Support and 3rd Party Storage Array Support

Please refer to the Dell Technologies E-Lab Simplified Support Matrix for details or download the E-Lab Navigator mobile App for iPhone or Android



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