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| Solution Name: vSAN Ready Nodes | | | | | | |
| Solution Category: General | | | | | | |
| | Product Name | Product Qty | Module Name | Option ID | Option Name | Qty |
| | VSAN Ready Node R640 | 3 | | | | |
| | | | VSAN Ready Node RN R640 | GHDZM76 | R640,VSAN-RN,AF Server | 1 |
| | | | IDM Required | GX63J1E | IDM/ Personality Module for VSAN RN R640 | 1 |
| | | | Trusted Platform Module | 5098754 | Trusted Platform Module 2.0 | 1 |
| | | | Chassis Configuration | 5101051 | 2.5" Chassis with up to 10 Hard Drives and 3PCIe slots | 1 |
| | | | Motherboard | GU0G75A | PowerEdge R640 Motherboard | 1 |
| | | | Shipping | DSHIP | PowerEdge R640 Shipping | 1 |
| | | | Shipping Material | 5102922 | PowerEdge R640 x4 and x10 Drive Shipping Material | 1 |
| | | | Processor | 5103410 | Intel® Xeon® Gold 5118 2.3G, 12C/24T, 10.4GT/s, 16.5M Cache, Turbo, HT (105W) DDR4-2400 | 1 |
| | | | Additional Processor | 5103411 | Intel® Xeon® Gold 5118 2.3G, 12C/24T, 10.4GT/s, 16.5M Cache, Turbo, HT (105W) DDR4-2400 | 1 |
| | | | Processor Thermal Configuration | 5099793 | Standard Heatsink for 2 CPU | 1 |
| | | | Memory DIMM Type and Speed | 5099278 | 2666MT/s RDIMMs | 1 |
| | | | Memory Configuration Type | PEOPT | Performance Optimized | 1 |
| | | | Memory Capacity | 5098888 | 16GB RDIMM, 2666MT/s, Dual Rank | 8 |
| | | | RAID Configuration | 5098866 | C1, No RAID for HDDs/SSDs (Mixed Drive Types Allowed) | 1 |
| | | | RAID/Internal Storage Controllers | 12GBRC | HBA330 12Gbps SAS HBA Controller (NON-RAID), Minicard | 1 |
| | | | Hard Drives | G3UTQH6 | 1.92TB SSD SATA Read Intensive 6Gbps 512e 2.5in Hot-plug S4510 Drive, 1 DWPD,3504 TBW | 4 |
| | | | Hard Drives | GHZ7BMA | 800GB SSD SAS Write Intensive 12Gbps 512e 2.5in Hot Plug Drive, PM5-M, 10 DWPD, 14600 TBW | 1 |
| | | | Boot Optimized Storage Cards | 5104266 | BOSS controller card + with 2 M.2 Sticks 240G (RAID 1),LP | 1 |
| | | | Operating System | G1P7C4Q | VMware ESXi 6.7 U2 Embedded Image (License Not Included) | 1 |
| | | | OS Media Kits | NOMED | No Media Required | 1 |
| | | | Embedded Systems Management | 5100750 | iDRAC9 Enterprise with OpenManage Enterprise Advanced | 1 |
| | | | Group Manager | 5100926 | iDRAC Group Manager, Disabled | 1 |
| | | | Password | 5101344 | iDRAC,Legacy Password | 1 |
| | | | PCIe Riser | 5098849 | Riser Config 2, 3x16 LP | 1 |
| | | | Network Daughter Card | X710PQ | Intel X710 Quad Port 10GbE SFP+, rNDC | 1 |
| | | | Additional Network Cards | X710FP | Intel X710 Dual Port 10GbE SFP+ Adapter, PCIe Low Profile | 1 |
| | | | IDSDM and VFlash Card Reader | 5102683 | IDSDM and Combo Card Reader with 16GB VFlash SD | 1 |
| | | | Internal SD Module | 5100615 | 2x 16GB microSDHC/SDXC Card | 1 |
| | | | Fans | 5101073 | 8 Standard Fans for R640 | 1 |
| | | | Power Supply | 750R | Dual, Hot-plug, Redundant Power Supply (1+1), 750W | 1 |
| | | | Power Cords | 125V10 | NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America | 2 |
| | | | Bezel | GRCTJQ7 | 1U Standard Bezel for x10, VSAN RN R640 | 1 |
| | | | Quick Sync 2 (At-the-box mgmt) | 5101882 | Quick Sync 2 (At-the-box mgmt) | 1 |
| | | | BIOS and Advanced System Configuration Settings | HPBIOS | Performance BIOS Setting | 1 |
| | | | Advanced System Configurations | UEFIB | UEFI BIOS Boot Mode with GPT Partition | 1 |
| | | | Rack Rails | RRCMA | ReadyRails™ Sliding Rails With Cable Management Arm | 1 |
| | | | System Documentation | NODOCS | No Systems Documentation, No OpenManage DVD Kit | 1 |
| | | | Additional Software | VMV3Y | OpenManage Integration for VMware vCenter - 1 host increment, 3 year license digitally fulfilled | 1 |
| | | | Deployment Services | GD4FBLP | ProDeploy Dell Server R Series 1U/2U | 1 |
| | | | Additional Deployment Services | GMI1JZY | ProDeploy Add-On: VMware vSAN (Requires ProDeploy) | 1 |
| | | | Virtualization Software and Support | GBHRXL1 | Virtual SAN Ready Node, 3 Years | 1 |
| | | | Internal Optical Drive | NODVD1 | No Internal Optical Drive for 10 or 24 HDD Chassis | 1 |

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| | | | Dell Services: Hardware Support | GTR8CHJ | 3 Years ProSupport Plus Next Business Day Onsite Service | 1 |
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Build Notes:

All Flash vSAN Ready Node

2x 12C Intel Processors

128GBs of RAM (Per Node)

1x 800GB Write Intensive Cache Drive

4x 1.92TB Read Intensive (7.68TB Raw per Node)

*with 3 nodes this would provide ~8.5TBs of useable storage