

HP High Performance Clusters LC 2000 Series Design and Configuration Guide



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Introduction

Summary:

The LC 2000 Series Design and Configuration Guide provides an easy and flexible way to design High Performance Computing (HPC) clusters. It is easy to design an HPC cluster with this guide because everything needed for the cluster is specified through Reference Designs. The flexible process provides the ability to fully configure the cluster by selecting the number of compute nodes in the cluster, type of cluster interconnect network, processor types, processor speeds, other server options, storage subsystems, storage options, and software options.

Reference Designs:

The LC 2000 Series Cluster Reference Designs in this guide serve as the foundation for designing an HPC cluster. The Reference Designs include wiring diagrams of the three cluster networks: In Band (IB) and Out of Band (OOB) management networks and the cluster interconnect network. The Reference Designs contain rack configurations detailing component placement in the racks and the location of the potential expansion compute nodes and switches. The Reference Designs also provide comprehensive parts lists to assist you in the order process. The parts lists include all of the part numbers and part descriptions, along with their respective quantities, needed to build an LC 2000 Series Cluster. The Reference Designs are distinguished from one another by the types and sizes of the cluster interconnect network switch. The types of cluster interconnect networks supported by the LC 2000 Series Clusters are: Myrinet, Gigabit Ethernet and Fast Ethernet. Each cluster interconnect network switch supports a certain range of compute nodes and can be expanded to some maximum number of compute nodes.

Using the Design and Configuration Matrix:

The LC 2000 Series Design and Configuration Matrix assists in selecting an LC 2000 Series Cluster Reference Design to be customized to meet your needs. By utilizing three basic inputs, the LC 2000 Series Design and Configuration Matrix helps define the most cost efficient cluster interconnect network switch solution while satisfying both your current compute node count configuration needs and future compute node count expansion plans.

The three basic inputs needed to define the cluster configuration are located in the first three columns of the Design and Configuration matrix. Select a Cluster Interconnect Network, the number of Compute nodes to make up the cluster, and the maximum number of Compute nodes you may expand the cluster to in the future. Each selection from left to right narrows down the potential options. Once the three selections are made, the result on the right hand side of the matrix is a particular Reference Design and Reference Parts List as well as the page(s) to find them on. The resulting page(s) provide(s) a detailed reference wiring diagram, a reference rack configuration diagram, and a Reference Parts List. Refer to the quantity column of the Reference Parts List whose range includes the selected compute node count. Each quantity column encompasses an entire cluster solution. (Note: Use only the column for your desired node count.) Once the correct column quantity is selected, record the quantities needed for each part in the appropriate cluster interconnect network Order Worksheet. Order Worksheets for each cluster interconnect network are included in this document to assist in recording the quantities needed to order the LC 2000 Series Cluster. Where prompted, substitute the number of compute nodes selected for the # sign in the simple equations.

An Options Worksheet is also available in this document to order hardware options for the DL380 (Control node) and DL360 (Compute node). Options include, but are not limited to, additional processors, memory and disk capacity. All Compute nodes must be identically configured.

Software Options:

Software options such as operating system media and licenses are available. Please refer to the LC 2000 Series Software Options worksheet for part numbers and quantities. The operating system options available with the LC 2000 Series Clusters include Red Hat 3 one year and three year licenses, SLES 8 one year and three year licenses, and Microsoft Windows Server 2003. Separate part numbers are provided for Control and Compute nodes. When ordering Red Hat 3 and SLES 8, the first group of eight compute nodes require a special part number to be ordered that contains the media, HP Care Pack, and the base eight licenses. The licenses for the additional groups of eight compute nodes should be ordered using the separate part number indicated in the Software Options table. The licenses for Microsoft Windows come in bundles of 16 for the Compute nodes.

Scali Manage/Connect software is also available. The appropriate Control node media and license and the correct number of Compute node licenses must be ordered. Scali Manage/Connect is supported on Linux operating systems only.

Storage Subsystems:

Storage Subsystems are also available for the compute cluster. In the LC 2000 Series Design and Configuration Guide, several Storage Subsystems have been defined with wiring diagrams, rack configurations, and Reference Parts Lists. The Storage Subsystems are attached to the compute cluster via the In Band Gigabit Ethernet network. If you would like to select one of the Storage Subsystems, simply place the order using the appropriate Reference Parts List.

To add storage options, please refer to the Storage Subsystem Options worksheet.

Using the Upgrade Worksheets:

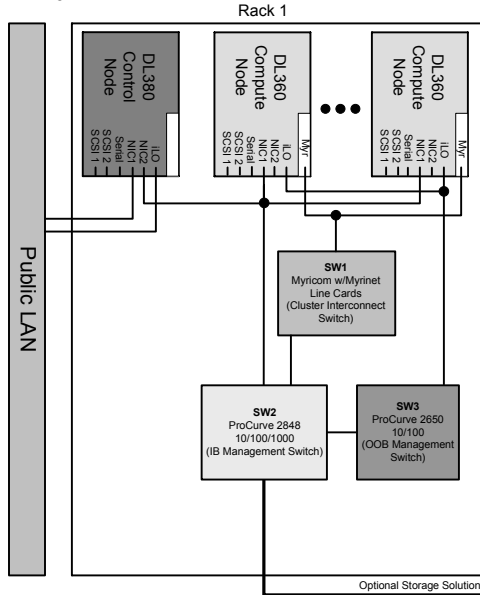
There are Upgrade Worksheets for each cluster interconnect network included in this document. Each Reference Design has its own maximum expandability as illustrated by the LC 2000 Series Design and Configuration Matrix and listed on each LC 2000 Series Cluster Reference Design page. To expand your Compute node count, find the correct cluster interconnect network Upgrade Worksheet and fill out the Current Configuration column and the New Configuration column using the appropriate Reference Parts List. Depending on the situation, these two inputs could come from separate quantity columns but will always come from the same Reference Design. Then subtract the quantity of each part in the Current Configuration column from each part in the New Configuration column, and enter the difference in the Parts Needed column. The generated Parts Needed column provides you with exactly the necessary parts to achieve your new configuration.

LC 2000 Series Design and Configuration Matrix

| Select | | | Result | | |
|------------------------------|--------------------|--------------------------|------------------|----------------------|---------|
| Cluster Interconnect Network | # of Compute Nodes | Maximum Future Expansion | Reference Design | Reference Parts List | Pages |
| Myrinet | 1 - 32 | 32 | 16 Node Myrinet | 1 - 32 Nodes | 6 |
| | 1 - 64 | 64 | 32 Node Myrinet | 1 - 32 Nodes | 7 |
| | | | | 33 - 64 Nodes | 7 |
| | 29 - 128 | 128 | 64 Node Myrinet | 29 - 68 Nodes | 8 - 9 |
| | | | | 69 - 108 Nodes | 8 - 9 |
| | | | | 109 - 128 Nodes | 8 - 9 |
| GigE | 1 - 22 | 22 | 16 Node GigE | 1 - 22 Nodes | 11 |
| | 1 - 36 | 36 | 24 Node GigE | 1 - 36 Nodes | 12 |
| | 1 - 64 | 64 | 32 Node GigE | 1 - 32 Nodes | 13 |
| | | | | 33 - 64 Nodes | 13 |
| | 29 - 128 | 128 | 64 Node GigE | 29 - 68 Nodes | 14 - 15 |
| | | | | 69 - 108 Nodes | 14 - 15 |
| | | | | 109 - 128 Nodes | 14 - 15 |
| Fast Ethernet | 1 - 22 | 22 | 16 Node FE | 1 - 22 Nodes | 17 |
| | 1 - 36 | 36 | 24 Node FE | 1 - 36 Nodes | 18 |
| | 1 - 32 | 72 | 32 Node FE | 1 - 32 Nodes | 19 |
| | 33 - 192 | 192 | 64 Node FE | 33 - 72 Nodes | 20 - 21 |
| | | | | 73 - 112 Nodes | 20 - 21 |
| | | | | 113 - 152 Nodes | 20 - 21 |
| | | | | 153 - 192 Nodes | 20 - 21 |

LC 2000 Series 16 Node Myrinet DL360 Cluster Reference Design

Myrinet (expandable to 32 nodes)



- Notes: 1. # represents the number of compute nodes.
 2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

| LC 2000 Series Parts List | | 1 - 32 Nodes (32 Node Max) | |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--|
| Myrinet | | | |
| Factory Integration | | | |
| 325733-888 | Level 4 Factory Integration | 1 | |
| 359578-B21 | Configuration Resource Kit | 1 | |
| DL380G3 Control Node | | | |
| Quantity | | | |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 | |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | | |
| DL360G3 Compute Nodes | | | |
| Quantity | | | |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | # | |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | |
| 257894-006 | Myrinet Fiber PCI-X Single Port Adapter Card - M3F-PCIXD-2 | | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | | |
| IB / OOB Management Interconnect | | | |
| Quantity | | | |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 1 | |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 1 | |
| Compute Interconnect | | | |
| Quantity | | | |
| 257896-002 | Myrinet 5-Slot Switch Frame, 3U, Max Support 32 Ports - M3-E32 | 1 | |
| 257896-003 | Myrinet 9-Slot Switch Frame, 5U, Max Support 64 Ports - M3-E64 | | |
| 257896-004 | Myrinet 17-Slot Switch Frame, 9U, Max Support 128 Ports - M3-E128 | | |
| 257895-001 | Myrinet 8-Port Fiber Switch Card With XBar - M3-SW16-8F *** Round up to the nearest integer. | # / 8 | |
| 262818-001 | Myrinet SNMP Monitoring Line Card, Dual Port - M3-M | 1 | |
| 337807-001 | Myrinet Front Blanking Panel - M3-BLANK *** Round down to the nearest integer. | 4 - # / 8 | |
| 360363-B21 | Myrinet Switch Rail Kit | 1 | |
| Common Interconnect Parts | | | |
| Quantity | | | |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 2 | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 3 | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | # * 2 + 2 | |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 1 | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 | |
| 221692-B22 | Fiber Cable, LC-LC, OPTICAL, 5M | # | |
| 221692-B23 | Fiber Cable, LC-LC, OPTICAL, 15M | | |
| Rack and Power Components | | | |
| Quantity | | | |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 1 | |
| 221546-YYY | TFT5600RKM | 1 | |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 | |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 8, then 1. If 8 < # <= 22, then 2. If # > 22, then 3. | |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 | |
| 246107-B21 | Stabilizer 600mm, 10K Series All | 1 | |
| 248929-B21 | Baying Kit, 10K Series All | | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (39 - #) / 10 | |

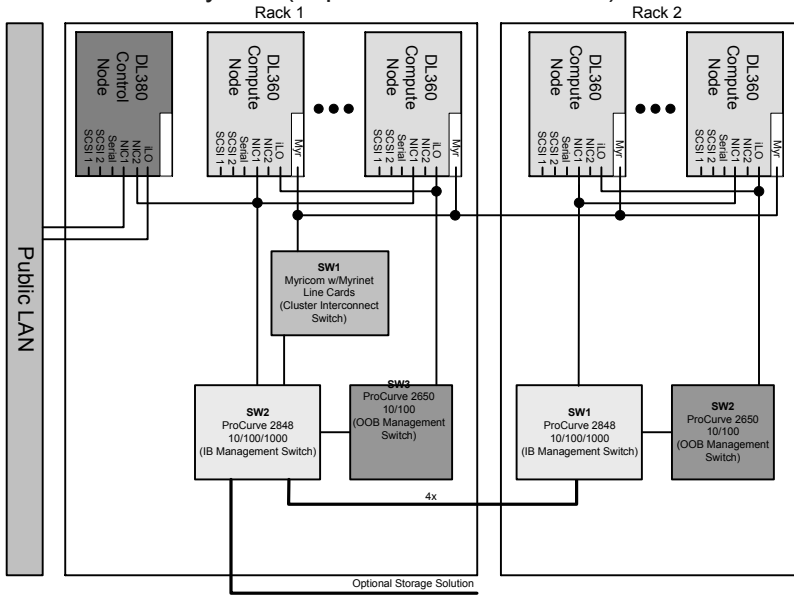
| | | |
|----|-----------------------------------|---------------|
| 42 | | |
| 41 | | |
| 40 | S 33 | Expansion |
| 39 | S 32 | Expansion |
| 38 | S 31 | Expansion |
| 37 | S 30 | Expansion |
| 36 | S 29 | Expansion |
| 35 | S 28 | Expansion |
| 34 | S 27 | Expansion |
| 33 | S 26 | Expansion |
| 32 | S 25 | Expansion |
| 31 | S 24 | Expansion |
| 30 | S 23 | DL380 |
| 29 | | |
| 28 | S 22 | Expansion |
| 27 | S 21 | Expansion |
| 26 | S 20 | Expansion |
| 25 | S 19 | Expansion |
| 24 | S 18 | Expansion |
| 23 | S 17 | Expansion |
| 22 | SW 3 | ProCurve 2650 |
| 21 | SW 2 | ProCurve 2848 |
| 20 | TFT5600 | |
| 19 | S 16 | DL360 |
| 18 | S 15 | DL360 |
| 17 | S 14 | DL360 |
| 16 | S 13 | DL360 |
| 15 | S 12 | DL360 |
| 14 | S 11 | DL360 |
| 13 | S 10 | DL360 |
| 12 | S 9 | DL360 |
| 11 | S 8 | DL360 |
| 10 | S 7 | DL360 |
| 9 | S 6 | DL360 |
| 8 | S 5 | DL360 |
| 7 | S 4 | DL360 |
| 6 | S 3 | DL360 |
| 5 | S 2 | DL360 |
| 4 | S 1 | DL360 |
| 3 | Myricom 5 slot | |
| 2 | SW 1 chassis w/Myrinet line cards | |
| 1 | | |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

Rack 1 (R1)

LC 2000 Series 32 Node Myrinet DL360 Cluster Reference Design

Myrinet (expandable to 64 nodes)



Notes: 1. # represents the number of compute nodes.
2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

| Part Numbers | LC 2000 Series Parts List | | 1 - 32 Nodes | 33 - 64 Nodes | | |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------|-----------------------------------------------------------------------|----------|----------|
| | Myrinet | | (Expandable to 64 Nodes) | (64 Node Max) | | |
| Factory Integration | | | Quantity | Quantity | | |
| 325733-888 | Level 4 Factory Integration | | 1 | 2 | | |
| 359578-B21 | Configuration Resource Kit | | 1 | 1 | | |
| DL380G3 Control Node | | | Quantity | Quantity | | |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | 1 | 1 | | |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | | | | | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | | | | | |
| DL360G3 Compute Nodes | | | Quantity | Quantity | | |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | # | # | | |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | | | | | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | | | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | | | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | | |
| 257894-006 | Myrinet Fiber PCI-X Single Port Adapter Card - M3F-PCIXD-2 | | | | | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | | | | | |
| IB / OOB Management Interconnect | | | | | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | | | | 1 | 2 |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | | 1 | 2 | | |
| Compute Interconnect | | | Quantity | Quantity | | |
| 257896-002 | Myrinet 5-Slot Switch Frame, 3U, Max Support 32 Ports - M3-E32 | | 1 | 1 | | |
| 257896-003 | Myrinet 9-Slot Switch Frame, 5U, Max Support 64 Ports - M3-E64 | | | | | |
| 257896-004 | Myrinet 17-Slot Switch Frame, 9U, Max Support 128 Ports - M3-E128 | | | | | |
| 257895-001 | Myrinet 8-Port Fiber Switch Card With XBar - M3-SW16-8F *** Round up to the nearest integer. | | # / 8 | # / 8 | | |
| 262818-001 | Myrinet SNMP Monitoring Line Card, Dual Port - M3-M | | 1 | 1 | | |
| 337807-001 | Myrinet Front Blanking Panel - M3-BLANK *** Round down to the nearest integer. | | 8 - # / 8 | 8 - # / 8 | | |
| 360363-B21 | Myrinet Switch Rail Kit | | 1 | 1 | | |
| Common Interconnect Parts | | | Quantity | Quantity | | |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | | 2 | 4 | | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | | 3 | 5 | | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | | # * 2 + 2 | # * 2 + 7 | | |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | | 1 | 1 | | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | | 2 | 2 | | |
| 221692-B22 | Fiber Cable, LC-LC, OPTICAL, 5M | | # | # | | |
| 221692-B23 | Fiber Cable, LC-LC, OPTICAL, 15M | | | | | |
| Rack and Power Components | | | Quantity | Quantity | | |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | | 1 | 2 | | |
| 221546-YYY | TFT5600RKM | | 1 | 1 | | |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | | 1 | 1 | | |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | | If # <= 6, then 1. If 6 < # <= 20, then 2. If # > 20, then 3. | If # <= 44, then 4. If 44 < # <= 58, then 5. If # > 58, then 6. | | |
| 246099-B21 | Side Panel 42U, 10K Series All | | 1 | 1 | | |
| 246107-B21 | Stabilizer 600mm, 10K Series All | | 1 | | | |
| 248929-B21 | Baying Kit, 10K Series All | | | 1 | | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | | (39 - #) / 10 | (81 - #) / 10 | | |

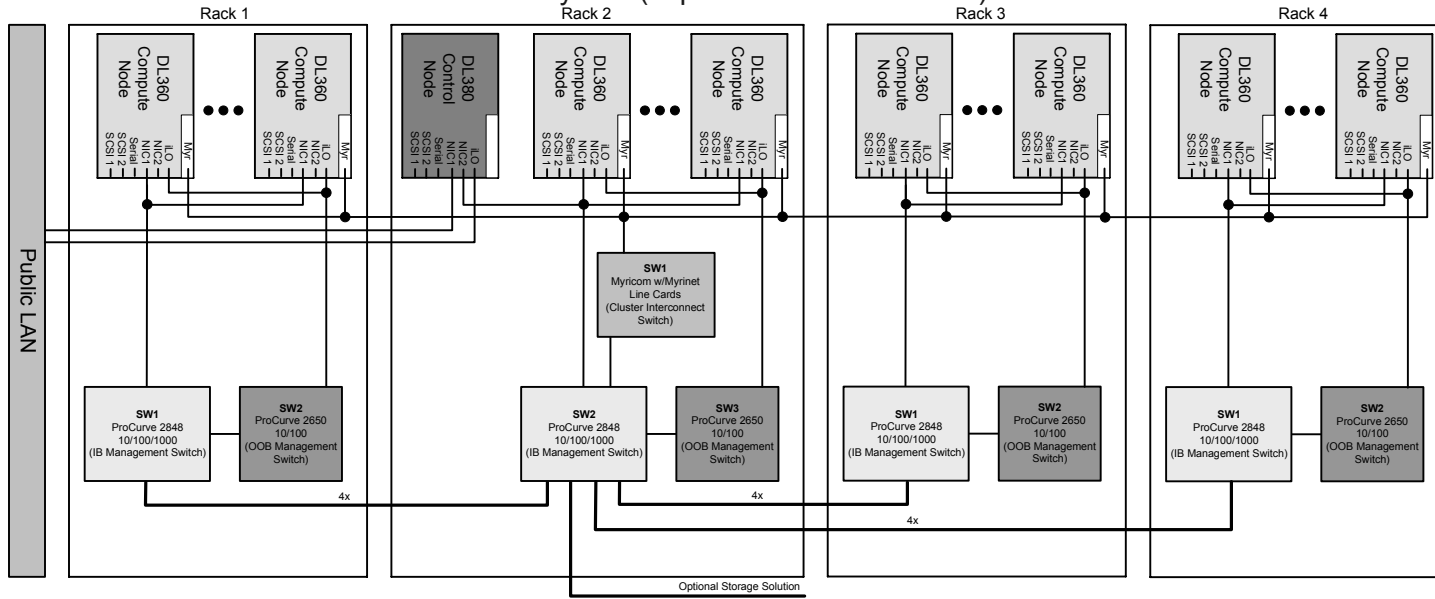
| | | |
|----|--------------------------------------------------|---------------|
| 42 | S 33 | DL360 |
| 41 | S 32 | DL360 |
| 40 | S 31 | DL360 |
| 39 | S 30 | DL360 |
| 38 | S 29 | DL360 |
| 37 | S 28 | DL360 |
| 36 | S 27 | DL360 |
| 35 | S 26 | DL360 |
| 34 | S 25 | DL360 |
| 33 | S 24 | DL360 |
| 32 | S 23 | DL360 |
| 31 | S 22 | DL360 |
| 30 | S 21 | DL380 |
| 29 | | |
| 28 | S 20 | DL360 |
| 27 | S 19 | DL360 |
| 26 | S 18 | DL360 |
| 25 | S 17 | DL360 |
| 24 | S 16 | DL360 |
| 23 | S 15 | DL360 |
| 22 | SW 3 | ProCurve 2650 |
| 21 | SW 2 | ProCurve 2848 |
| 20 | TFT5600 | |
| 19 | S 14 | DL360 |
| 18 | S 13 | DL360 |
| 17 | S 12 | DL360 |
| 16 | S 11 | DL360 |
| 15 | S 10 | DL360 |
| 14 | S 9 | DL360 |
| 13 | S 8 | DL360 |
| 12 | S 7 | DL360 |
| 11 | S 6 | DL360 |
| 10 | S 5 | DL360 |
| 9 | S 4 | DL360 |
| 8 | S 3 | DL360 |
| 7 | S 2 | DL360 |
| 6 | S 1 | DL360 |
| 5 | Myricom 9 slot SW 1 chassis w/Myrinet line cards | |
| 4 | | |
| 3 | | |
| 2 | | |
| 1 | | |

| | | |
|----|------|-----------|
| 42 | | |
| 41 | | |
| 40 | | |
| 39 | | |
| 38 | | |
| 37 | | |
| 36 | | |
| 35 | | |
| 34 | S 32 | Expansion |
| 33 | S 31 | Expansion |
| 32 | S 30 | Expansion |
| 31 | S 29 | Expansion |
| 30 | S 28 | Expansion |
| 29 | S 27 | Expansion |
| 28 | S 26 | Expansion |
| 27 | S 25 | Expansion |
| 26 | S 24 | Expansion |
| 25 | S 23 | Expansion |
| 24 | S 22 | Expansion |
| 23 | S 21 | Expansion |
| 22 | SW 2 | Expansion |
| 21 | SW 1 | Expansion |
| 20 | S 20 | Expansion |
| 19 | S 19 | Expansion |
| 18 | S 18 | Expansion |
| 17 | S 17 | Expansion |
| 16 | S 16 | Expansion |
| 15 | S 15 | Expansion |
| 14 | S 14 | Expansion |
| 13 | S 13 | Expansion |
| 12 | S 12 | Expansion |
| 11 | S 11 | Expansion |
| 10 | S 10 | Expansion |
| 9 | S 9 | Expansion |
| 8 | S 8 | Expansion |
| 7 | S 7 | Expansion |
| 6 | S 6 | Expansion |
| 5 | S 5 | Expansion |
| 4 | S 4 | Expansion |
| 3 | S 3 | Expansion |
| 2 | S 2 | Expansion |
| 1 | S 1 | Expansion |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

LC 2000 Series 64 Node Myrinet DL360 Cluster Reference Design

Myrinet (expandable to 128 nodes)



| | | |
|----|------|---------------|
| 42 | S 40 | Expansion |
| 41 | S 39 | Expansion |
| 40 | S 38 | Expansion |
| 39 | S 37 | Expansion |
| 38 | S 36 | DL360 |
| 37 | S 35 | DL360 |
| 36 | S 34 | DL360 |
| 35 | S 33 | DL360 |
| 34 | S 32 | DL360 |
| 33 | S 31 | DL360 |
| 32 | S 30 | DL360 |
| 31 | S 29 | DL360 |
| 30 | S 28 | DL360 |
| 29 | S 27 | DL360 |
| 28 | S 26 | DL360 |
| 27 | S 25 | DL360 |
| 26 | S 24 | DL360 |
| 25 | S 23 | DL360 |
| 24 | S 22 | DL360 |
| 23 | S 21 | DL360 |
| 22 | SW 2 | ProCurve 2650 |
| 21 | SW 1 | ProCurve 2848 |
| 20 | S 20 | DL360 |
| 19 | S 19 | DL360 |
| 18 | S 18 | DL360 |
| 17 | S 17 | DL360 |
| 16 | S 16 | DL360 |
| 15 | S 15 | DL360 |
| 14 | S 14 | DL360 |
| 13 | S 13 | DL360 |
| 12 | S 12 | DL360 |
| 11 | S 11 | DL360 |
| 10 | S 10 | DL360 |
| 9 | S 9 | DL360 |
| 8 | S 8 | DL360 |
| 7 | S 7 | DL360 |
| 6 | S 6 | DL360 |
| 5 | S 5 | DL360 |
| 4 | S 4 | DL360 |
| 3 | S 3 | DL360 |
| 2 | S 2 | DL360 |
| 1 | S 1 | DL360 |

U Rack 1 (R1)

| | | |
|----|---------------------------------------------------------|---------------|
| 42 | S 29 | DL360 |
| 41 | S 28 | DL360 |
| 40 | S 27 | DL360 |
| 39 | S 26 | DL360 |
| 38 | S 25 | DL360 |
| 37 | S 24 | DL360 |
| 36 | S 23 | DL360 |
| 35 | S 22 | DL360 |
| 34 | S 21 | DL360 |
| 33 | S 20 | DL360 |
| 32 | S 19 | DL360 |
| 31 | S 18 | DL360 |
| 30 | S 17 | DL380 |
| 29 | S 16 | DL360 |
| 28 | S 15 | DL360 |
| 27 | S 14 | DL360 |
| 26 | S 13 | DL360 |
| 25 | S 12 | DL360 |
| 24 | S 11 | DL360 |
| 23 | S 10 | DL360 |
| 22 | SW 3 | ProCurve 2650 |
| 21 | SW 2 | ProCurve 2848 |
| 20 | Myrinet 17 slot SW 1 chassis w/Myrinet line cards | |
| 19 | S 10 | DL360 |
| 18 | S 9 | DL360 |
| 17 | S 8 | DL360 |
| 16 | S 7 | DL360 |
| 15 | S 6 | DL360 |
| 14 | S 5 | DL360 |
| 13 | S 4 | DL360 |
| 12 | S 3 | DL360 |
| 11 | S 2 | DL360 |
| 10 | S 1 | DL360 |

U Rack 2 (R2)

| | | |
|----|------|-----------|
| 42 | S 40 | Expansion |
| 41 | S 39 | Expansion |
| 40 | S 38 | Expansion |
| 39 | S 37 | Expansion |
| 38 | S 36 | Expansion |
| 37 | S 35 | Expansion |
| 36 | S 34 | Expansion |
| 35 | S 33 | Expansion |
| 34 | S 32 | Expansion |
| 33 | S 31 | Expansion |
| 32 | S 30 | Expansion |
| 31 | S 29 | Expansion |
| 30 | S 28 | Expansion |
| 29 | S 27 | Expansion |
| 28 | S 26 | Expansion |
| 27 | S 25 | Expansion |
| 26 | S 24 | Expansion |
| 25 | S 23 | Expansion |
| 24 | S 22 | Expansion |
| 23 | S 21 | Expansion |
| 22 | SW 2 | Expansion |
| 21 | SW 1 | Expansion |
| 20 | S 20 | Expansion |
| 19 | S 19 | Expansion |
| 18 | S 18 | Expansion |
| 17 | S 17 | Expansion |
| 16 | S 16 | Expansion |
| 15 | S 15 | Expansion |
| 14 | S 14 | Expansion |
| 13 | S 13 | Expansion |
| 12 | S 12 | Expansion |
| 11 | S 11 | Expansion |
| 10 | S 10 | Expansion |
| 9 | S 9 | Expansion |
| 8 | S 8 | Expansion |
| 7 | S 7 | Expansion |
| 6 | S 6 | Expansion |
| 5 | S 5 | Expansion |
| 4 | S 4 | Expansion |
| 3 | S 3 | Expansion |
| 2 | S 2 | Expansion |
| 1 | S 1 | Expansion |

U Rack 3 (R3)

| | | |
|----|------|-----------|
| 42 | | |
| 41 | | |
| 40 | | |
| 39 | | |
| 38 | | |
| 37 | | |
| 36 | | |
| 35 | | |
| 34 | | |
| 33 | | |
| 32 | | |
| 31 | | |
| 30 | | |
| 29 | | |
| 28 | | |
| 27 | | |
| 26 | | |
| 25 | | |
| 24 | | |
| 23 | | |
| 22 | SW 2 | Expansion |
| 21 | SW 1 | Expansion |
| 20 | S 20 | Expansion |
| 19 | S 19 | Expansion |
| 18 | S 18 | Expansion |
| 17 | S 17 | Expansion |
| 16 | S 16 | Expansion |
| 15 | S 15 | Expansion |
| 14 | S 14 | Expansion |
| 13 | S 13 | Expansion |
| 12 | S 12 | Expansion |
| 11 | S 11 | Expansion |
| 10 | S 10 | Expansion |
| 9 | S 9 | Expansion |
| 8 | S 8 | Expansion |
| 7 | S 7 | Expansion |
| 6 | S 6 | Expansion |
| 5 | S 5 | Expansion |
| 4 | S 4 | Expansion |
| 3 | S 3 | Expansion |
| 2 | S 2 | Expansion |
| 1 | S 1 | Expansion |

U Rack 4 (R4)

LC 2000 Series 64 Node Myrinet DL360 Cluster Reference Design

- Notes: 1. # represents the number of compute nodes.
2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

| Part Numbers | LC 2000 Series Parts List Myrinet | 29 - 68 Nodes (Expandable to 128 Nodes) | 69 - 108 Nodes (Expandable to 128 Nodes) | 109 - 128 Nodes (128 Node Max) |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|
| | Factory Integration | Quantity | Quantity | Quantity |
| 325733-888 | Level 4 Factory Integration | 2 | 3 | 4 |
| 359578-B21 | Configuration Resource Kit | 1 | 1 | 1 |
| | DL380G3 Control Node | Quantity | Quantity | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 | 1 | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | | | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | | | |
| | DL360G3 Compute Nodes | Quantity | Quantity | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | # | # | # |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 257894-006 | Myrinet Fiber PCI-X Single Port Adapter Card - M3F-PCIXD-2 | | | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | # | # | # |
| | IB / OOB Management Interconnect | Quantity | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 2 | 3 | 4 |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 2 | 3 | 4 |
| | Compute Interconnect | Quantity | Quantity | Quantity |
| 257896-002 | Myrinet 5-Slot Switch Frame, 3U, Max Support 32 Ports - M3-E32 | | | |
| 257896-003 | Myrinet 9-Slot Switch Frame, 5U, Max Support 64 Ports - M3-E64 | | | |
| 257896-004 | Myrinet 17-Slot Switch Frame, 9U, Max Support 128 Ports - M3-E128 | 1 | 1 | 1 |
| 257895-001 | Myrinet 8-Port Fiber Switch Card With XBar - M3-SW16-8F *** Round up to the nearest integer. | # / 8 | # / 8 | # / 8 |
| 262818-001 | Myrinet SNMP Monitoring Line Card, Dual Port - M3-M | 1 | 1 | 1 |
| 337807-001 | Myrinet Front Blanking Panel - M3-BLANK *** Round down to the nearest integer. | 16 - # / 8 | 16 - # / 8 | 16 - # / 8 |
| 360363-B21 | Myrinet Switch Rail Kit | 1 | 1 | 1 |
| | Common Interconnect Parts | Quantity | Quantity | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 4 | 6 | 8 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 5 | 7 | 9 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | # * 2 + 7 | # * 2 + 12 | # * 2 + 13 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 1 | 1 | 1 |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 | 2 | 6 |
| 221692-B22 | Fiber Cable, LC-LC, OPTICAL, 5M | # | # | If # < 120, then # else 120. |
| 221692-B23 | Fiber Cable, LC-LC, OPTICAL, 15M | | | If # < 120, then 0 else # - 120. |
| | Rack and Power Components | Quantity | Quantity | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 2 | 3 | 4 |
| 221546-YYY | TFT5600RKM | 1 | 1 | 1 |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 | 1 | 1 |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 40, then 4. If 40 < # <= 54, then 5. If # > 54, then 6. | If # <= 80, then 7. If 80 < # <= 94, then 8. If # > 94, then 9. | If # <= 120, then 10 else 11. |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 | 1 | 1 |
| 246107-B21 | Stabilizer 600mm, 10K Series All | | | |
| 248929-B21 | Baying Kit, 10K Series All | 1 | 2 | 3 |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (81 - #) / 10 | (123 - #) / 10 | (165 - #) / 10 |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

LC 2000 Series Myrinet DL360 Cluster Order Worksheet

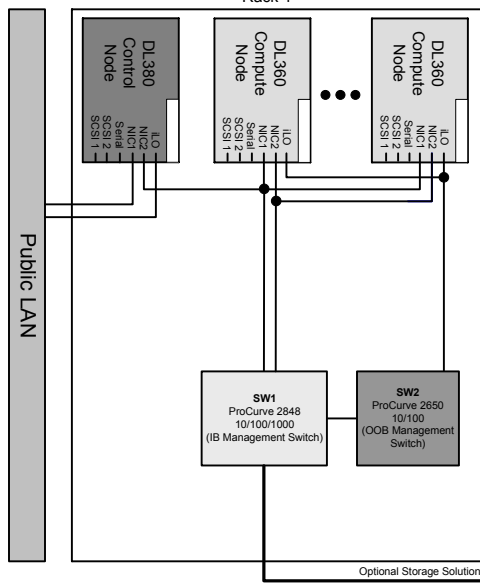
Note: Please make copies for future use.

| Part Numbers | LC 2000 Series Parts List Fast Ethernet | 1 - 22 Nodes (22 Node Max) |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Factory Integration | | Quantity |
| 325733-888 | Level 4 Factory Integration | 1 |
| 359578-B21 | Configuration Resource Kit | 1 |
| DL380G3 Control Node | | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| DL360G3 Compute Nodes | | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | # |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | |
| IB / OOB Management Interconnect | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 1 |
| Compute Interconnect | | Quantity |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 1 |
| J4848A#WWW | Procurve 5372xl - 10/100-TX Switch, 8 Slot Modules, 5U, 3 Slots Filled | |
| J4820A | Procurve Switch XL 10/100-TX Switch Module, 24 Ports Per Module *** Round up to the nearest integer. | |
| Common Interconnect Parts | | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 2 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 2 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | # * 3 + 1 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 1 |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 |
| Rack and Power Components | | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 1 |
| 221546-YYY | TFT5600RKM | 1 |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 9, then 1 else 2 |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 |
| 246107-B21 | Stabilizer 600mm, 10K Series All | 1 |
| 248929-B21 | Baying Kit, 10K Series All | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (39 - #) / 10 |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

LC 2000 Series 16 Node GigE DL360 Cluster Reference Design

GigE (expandable to 22 nodes)



Notes: 1. # represents the number of compute nodes.

2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

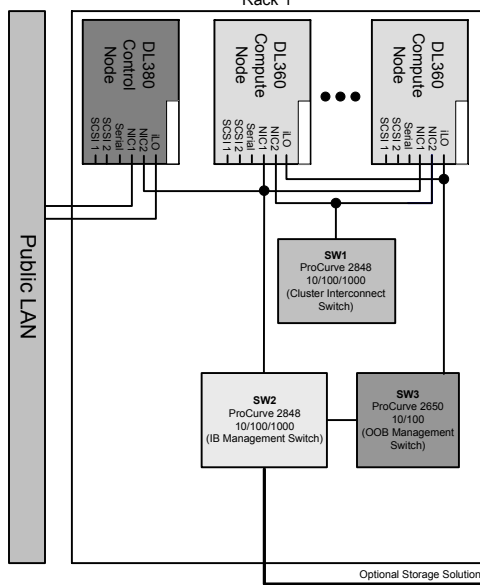
| Part Numbers | LC 2000 Series Parts List GigE | 1 - 22 Nodes (22 Node Max) |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Factory Integration | | Quantity |
| 325733-888 | Level 4 Factory Integration | 1 |
| 359578-B21 | Configuration Resource Kit | 1 |
| DL380G3 Control Node | | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| DL360G3 Compute Nodes | | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | # |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | |
| IB / OOB Management Interconnect | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 1 |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | |
| Compute Interconnect | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 1 |
| 257896-003 | Myrinet 9-Slot Switch Frame, 5U, Max Support 64 Ports - M3-E64 | |
| 257896-004 | Myrinet 17-Slot Switch Frame, 9U, Max Support 128 Ports - M3-E128 | |
| 356921-B21 | Myrinet 8-Port GigE Switch Card With XBar - M3-SW16-8E *** Round up to the nearest integer. | |
| 262818-001 | Myrinet SNMP Monitoring Line Card, Dual Port - M3-M | |
| 337807-001 | Myrinet Front Blanking Panel - M3-BLANK *** Round down to the nearest integer. | |
| 360363-B21 | Myrinet Switch Rail Kit | |
| Common Interconnect Parts | | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 2 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 2 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | # * 3 + 1 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 1 |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 |
| Rack and Power Components | | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 1 |
| 221546-YYY | TFT5600RKM | 1 |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 9, then 1 else 2 |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 |
| 246107-B21 | Stabilizer 600mm, 10K Series All | 1 |
| 248929-B21 | Baying Kit, 10K Series All | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (39 - #) / 10 |

| | | |
|----|---------|---------------|
| 42 | | |
| 41 | | |
| 40 | | |
| 39 | | |
| 38 | | |
| 37 | | |
| 36 | | |
| 35 | | |
| 34 | | |
| 33 | | |
| 32 | | |
| 31 | | |
| 30 | S 23 | DL380 |
| 29 | | |
| 28 | | |
| 27 | | |
| 26 | | |
| 25 | S 22 | Expansion |
| 24 | S 21 | Expansion |
| 23 | S 20 | Expansion |
| 22 | SW 2 | ProCurve 2650 |
| 21 | SW 1 | ProCurve 2848 |
| 20 | TFT5600 | |
| 19 | S 19 | Expansion |
| 18 | S 18 | Expansion |
| 17 | S 17 | Expansion |
| 16 | S 16 | DL360 |
| 15 | S 15 | DL360 |
| 14 | S 14 | DL360 |
| 13 | S 13 | DL360 |
| 12 | S 12 | DL360 |
| 11 | S 11 | DL360 |
| 10 | S 10 | DL360 |
| 9 | S 9 | DL360 |
| 8 | S 8 | DL360 |
| 7 | S 7 | DL360 |
| 6 | S 6 | DL360 |
| 5 | S 5 | DL360 |
| 4 | S 4 | DL360 |
| 3 | S 3 | DL360 |
| 2 | S 2 | DL360 |
| 1 | S 1 | DL360 |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

LC 2000 Series 24 Node GigE DL360 Cluster Reference Design

GigE (expandable to 36 nodes)



- Notes: 1. # represents the number of compute nodes.
 2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

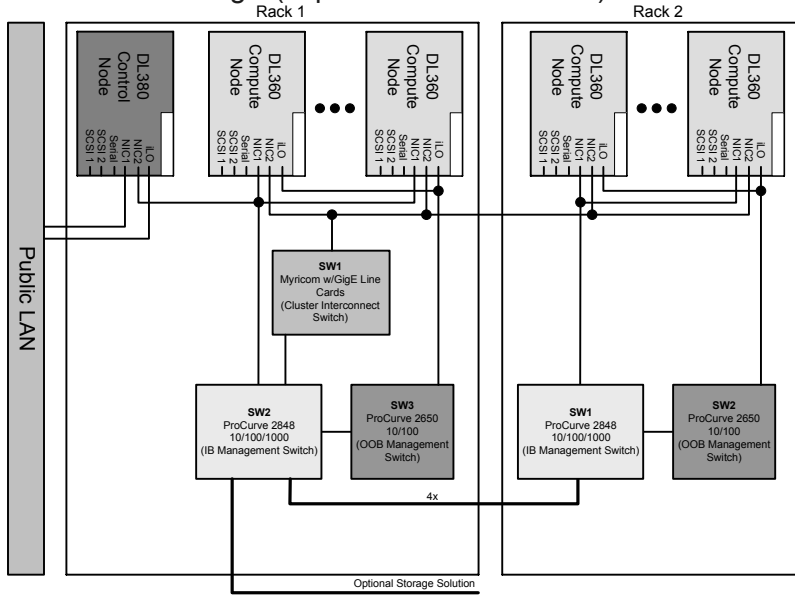
| | | |
|----|-------------|---------------|
| 42 | S 37 | Expansion |
| 41 | S 36 | Expansion |
| 40 | S 35 | Expansion |
| 39 | S 34 | Expansion |
| 38 | S 33 | Expansion |
| 37 | S 32 | Expansion |
| 36 | S 31 | Expansion |
| 35 | S 30 | Expansion |
| 34 | S 29 | Expansion |
| 33 | S 28 | Expansion |
| 32 | S 27 | Expansion |
| 31 | S 26 | Expansion |
| 30 | S 25 | DL380 |
| 29 | S 24 | DL360 |
| 28 | S 23 | DL360 |
| 27 | S 22 | DL360 |
| 26 | S 21 | DL360 |
| 25 | S 20 | DL360 |
| 24 | S 19 | DL360 |
| 23 | SW 3 | ProCurve 2650 |
| 22 | SW 2 | ProCurve 2848 |
| 21 | TFT5600 | |
| 20 | SW 1 | ProCurve 2848 |
| 19 | S 18 | DL360 |
| 18 | S 17 | DL360 |
| 17 | S 16 | DL360 |
| 16 | S 15 | DL360 |
| 15 | S 14 | DL360 |
| 14 | S 13 | DL360 |
| 13 | S 12 | DL360 |
| 12 | S 11 | DL360 |
| 11 | S 10 | DL360 |
| 10 | S 9 | DL360 |
| 9 | S 8 | DL360 |
| 8 | S 7 | DL360 |
| 7 | S 6 | DL360 |
| 6 | S 5 | DL360 |
| 5 | S 4 | DL360 |
| 4 | S 3 | DL360 |
| 3 | S 2 | DL360 |
| 2 | S 1 | DL360 |
| 1 | Rack 1 (R1) | |

| Part Number Key | | | |
|-----------------|-----|-----|---------|
| | WWW | XXX | YYY ZZZ |
| US | ABA | 001 | 001 D72 |
| EMEA | ABB | 421 | B31 B31 |

| LC 2000 Series Parts List | | 1 - 36 Nodes (36 Node Max) |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Part Numbers | GigE | Quantity |
| Factory Integration | | |
| 325733-888 | Level 4 Factory Integration | 1 |
| 359578-B21 | Configuration Resource Kit | 1 |
| DL380G3 Control Node | | |
| Quantity | | |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| DL360G3 Compute Nodes | | |
| Quantity | | |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | # |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | # |
| IB / OOB Management Interconnect | | |
| Quantity | | |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 1 |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 1 |
| Compute Interconnect | | |
| Quantity | | |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 1 |
| 257896-003 | Myrinet 9-Slot Switch Frame, 5U, Max Support 64 Ports - M3-E64 | |
| 257896-004 | Myrinet 17-Slot Switch Frame, 9U, Max Support 128 Ports - M3-E128 | |
| 356921-B21 | Myrinet 8-Port GigE Switch Card With XBar - M3-SW16-8E *** Round up to the nearest integer. | |
| 262818-001 | Myrinet SNMP Monitoring Line Card, Dual Port - M3-M | |
| 337807-001 | Myrinet Front Blanking Panel - M3-BLANK *** Round down to the nearest integer. | |
| 360363-B21 | Myrinet Switch Rail Kit | |
| Common Interconnect Parts | | |
| Quantity | | |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 3 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 3 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | # * 3 + 1 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 1 |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 |
| Rack and Power Components | | |
| Quantity | | |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 1 |
| 221546-YYY | TFT5600RKM | 1 |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 8, then 1. If 8 < # <= 22, then 2. If # > 22, then 3. |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 |
| 246107-B21 | Stabilizer 600mm, 10K Series All | 1 |
| 248929-B21 | Baying Kit, 10K Series All | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (39 - #) / 10 |

LC 2000 Series 32 Node GigE DL360 Cluster Reference Design

GigE (expandable to 64 nodes)



| | | |
|----|------------------------------------------|---------------|
| 42 | S 33 | DL360 |
| 41 | S 32 | DL360 |
| 40 | S 31 | DL360 |
| 39 | S 30 | DL360 |
| 38 | S 29 | DL360 |
| 37 | S 28 | DL360 |
| 36 | S 27 | DL360 |
| 35 | S 26 | DL360 |
| 34 | S 25 | DL360 |
| 33 | S 24 | DL360 |
| 32 | S 23 | DL360 |
| 31 | S 22 | DL360 |
| 30 | S 21 | DL380 |
| 29 | S 20 | DL360 |
| 28 | S 19 | DL360 |
| 27 | S 18 | DL360 |
| 26 | S 17 | DL360 |
| 25 | S 16 | DL360 |
| 24 | S 15 | DL360 |
| 23 | SW 3 | ProCurve 2650 |
| 22 | SW 2 | ProCurve 2848 |
| 21 | TF15600 | |
| 20 | S 14 | DL360 |
| 19 | S 13 | DL360 |
| 18 | S 12 | DL360 |
| 17 | S 11 | DL360 |
| 16 | S 10 | DL360 |
| 15 | S 9 | DL360 |
| 14 | S 8 | DL360 |
| 13 | S 7 | DL360 |
| 12 | S 6 | DL360 |
| 11 | S 5 | DL360 |
| 10 | S 4 | DL360 |
| 9 | S 3 | DL360 |
| 8 | S 2 | DL360 |
| 7 | S 1 | DL360 |
| 6 | Myricom 9 slot chassis w/GigE line cards | |
| 5 | | |
| 4 | | |
| 3 | | |
| 2 | | |
| 1 | | |

| | | |
|----|------|-----------|
| 42 | | |
| 41 | | |
| 40 | | |
| 39 | | |
| 38 | | |
| 37 | | |
| 36 | | |
| 35 | | |
| 34 | S 32 | Expansion |
| 33 | S 31 | Expansion |
| 32 | S 30 | Expansion |
| 31 | S 29 | Expansion |
| 30 | S 28 | Expansion |
| 29 | S 27 | Expansion |
| 28 | S 26 | Expansion |
| 27 | S 25 | Expansion |
| 26 | S 24 | Expansion |
| 25 | S 23 | Expansion |
| 24 | S 22 | Expansion |
| 23 | S 21 | Expansion |
| 22 | SW 2 | Expansion |
| 21 | SW 1 | Expansion |
| 20 | S 20 | Expansion |
| 19 | S 19 | Expansion |
| 18 | S 18 | Expansion |
| 17 | S 17 | Expansion |
| 16 | S 16 | Expansion |
| 15 | S 15 | Expansion |
| 14 | S 14 | Expansion |
| 13 | S 13 | Expansion |
| 12 | S 12 | Expansion |
| 11 | S 11 | Expansion |
| 10 | S 10 | Expansion |
| 9 | S 9 | Expansion |
| 8 | S 8 | Expansion |
| 7 | S 7 | Expansion |
| 6 | S 6 | Expansion |
| 5 | S 5 | Expansion |
| 4 | S 4 | Expansion |
| 3 | S 3 | Expansion |
| 2 | S 2 | Expansion |
| 1 | S 1 | Expansion |

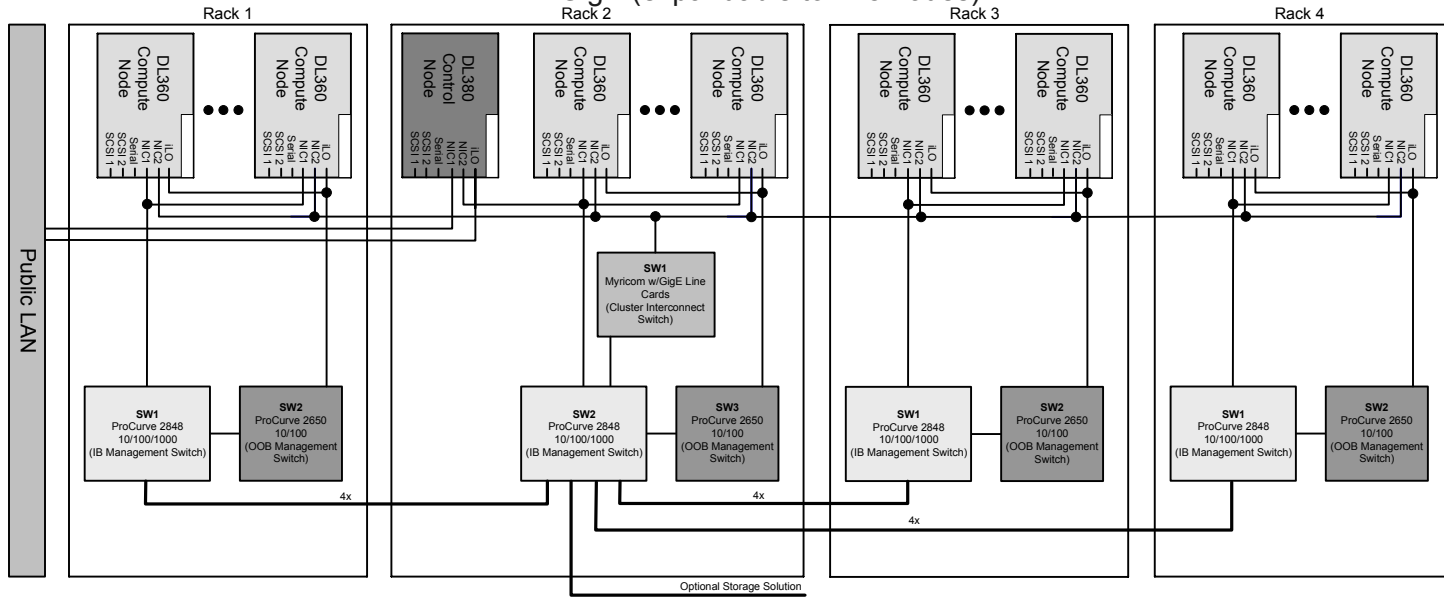
| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

- Notes: 1. # represents the number of compute nodes.
2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

| Part Numbers | LC 2000 Series Parts List GigE | 1 - 32 Nodes (Expandable to 64 Nodes) | 33 - 64 Nodes (64 Node Max) |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|
| | | Quantity | Quantity |
| Factory Integration | | | |
| 325733-888 | Level 4 Factory Integration | 1 | 2 |
| 359578-B21 | Configuration Resource Kit | 1 | 1 |
| DL380G3 Control Node | | | |
| | | Quantity | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | | |
| DL360G3 Compute Nodes | | | |
| | | Quantity | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | # | # |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | # | # |
| IB / OOB Management Interconnect | | | |
| | | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 1 | 2 |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 1 | 2 |
| Compute Interconnect | | | |
| | | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 1 | 1 |
| 257896-003 | Myrinet 9-Slot Switch Frame, 5U, Max Support 64 Ports - M3-E64 | | |
| 257896-004 | Myrinet 17-Slot Switch Frame, 9U, Max Support 128 Ports - M3-E128 | | |
| 356921-B21 | Myrinet 8-Port GigE Switch Card With XBar - M3-SW16-8E *** Round up to the nearest integer. | # / 8 | # / 8 |
| 262818-001 | Myrinet SNMP Monitoring Line Card, Dual Port - M3-M | 1 | 1 |
| 337807-001 | Myrinet Front Blanking Panel - M3-BLANK *** Round down to the nearest integer. | 8 - # / 8 | 8 - # / 8 |
| 360363-B21 | Myrinet Switch Rail Kit | 1 | 1 |
| Common Interconnect Parts | | | |
| | | Quantity | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 2 | 4 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 3 | 5 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | If # < 20, then # * 3 + 1 else # * 2 + 22. | If # < 44, then # * 3 - 5 else # * 2 + 39. |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | If # < 20, then 1 else # - 19. | If # < 44, then 13 else # - 31. |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 | 2 |
| Rack and Power Components | | | |
| | | Quantity | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 1 | 2 |
| 221546-YYY | TF15600RKM | 1 | 1 |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 | 1 |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 6, then 1. If 8 < # <= 20, then 2. If # > 20, then 3. | If # <= 44, then 4. If 44 < # <= 58, then 5. If # > 58, then 6. |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 | 1 |
| 246107-B21 | Stabilizer 600mm, 10K Series All | 1 | |
| 248929-B21 | Baying Kit, 10K Series All | | 1 |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (39 - #) / 10 | (81 - #) / 10 |

LC 2000 Series 64 Node GigE DL360 Cluster Reference Design

GigE (expandable to 128 nodes)



| | | |
|----|------|---------------|
| 42 | S 40 | Expansion |
| 41 | S 39 | Expansion |
| 40 | S 38 | Expansion |
| 39 | S 37 | Expansion |
| 38 | S 36 | DL360 |
| 37 | S 35 | DL360 |
| 36 | S 34 | DL360 |
| 35 | S 33 | DL360 |
| 34 | S 32 | DL360 |
| 33 | S 31 | DL360 |
| 32 | S 30 | DL360 |
| 31 | S 29 | DL360 |
| 30 | S 28 | DL360 |
| 29 | S 27 | DL360 |
| 28 | S 26 | DL360 |
| 27 | S 25 | DL360 |
| 26 | S 24 | DL360 |
| 25 | S 23 | DL360 |
| 24 | S 22 | DL360 |
| 23 | S 21 | DL360 |
| 22 | SW 2 | ProCurve 2650 |
| 21 | SW 1 | ProCurve 2848 |
| 20 | S 20 | DL360 |
| 19 | S 19 | DL360 |
| 18 | S 18 | DL360 |
| 17 | S 17 | DL360 |
| 16 | S 16 | DL360 |
| 15 | S 15 | DL360 |
| 14 | S 14 | DL360 |
| 13 | S 13 | DL360 |
| 12 | S 12 | DL360 |
| 11 | S 11 | DL360 |
| 10 | S 10 | DL360 |
| 9 | S 9 | DL360 |
| 8 | S 8 | DL360 |
| 7 | S 7 | DL360 |
| 6 | S 6 | DL360 |
| 5 | S 5 | DL360 |
| 4 | S 4 | DL360 |
| 3 | S 3 | DL360 |
| 2 | S 2 | DL360 |
| 1 | S 1 | DL360 |

U Rack 1 (R1)

| | | |
|----|-------------------------------------------|---------------|
| 42 | S 29 | DL360 |
| 41 | S 28 | DL360 |
| 40 | S 27 | DL360 |
| 39 | S 26 | DL360 |
| 38 | S 25 | DL360 |
| 37 | S 24 | DL360 |
| 36 | S 23 | DL360 |
| 35 | S 22 | DL360 |
| 34 | S 21 | DL360 |
| 33 | S 20 | DL360 |
| 32 | S 19 | DL360 |
| 31 | S 18 | DL360 |
| 30 | S 17 | DL380 |
| 29 | S 16 | DL360 |
| 28 | S 15 | DL360 |
| 27 | S 14 | DL360 |
| 26 | S 13 | DL360 |
| 25 | S 12 | DL360 |
| 24 | S 11 | DL360 |
| 23 | SW 3 | ProCurve 2650 |
| 22 | SW 2 | ProCurve 2848 |
| 21 | TF T5600 | |
| 20 | S 10 | DL360 |
| 19 | S 9 | DL360 |
| 18 | S 8 | DL360 |
| 17 | S 7 | DL360 |
| 16 | S 6 | DL360 |
| 15 | S 5 | DL360 |
| 14 | S 4 | DL360 |
| 13 | S 3 | DL360 |
| 12 | S 2 | DL360 |
| 11 | S 1 | DL360 |
| 10 | Myricom 17 slot chassis w/GigE line cards | |
| 9 | | |
| 8 | | |
| 7 | | |
| 6 | | |
| 5 | | |
| 4 | | |
| 3 | | |
| 2 | | |
| 1 | | |

U Rack 2 (R2)

| | | |
|----|------|-----------|
| 42 | S 40 | Expansion |
| 41 | S 39 | Expansion |
| 40 | S 38 | Expansion |
| 39 | S 37 | Expansion |
| 38 | S 36 | Expansion |
| 37 | S 35 | Expansion |
| 36 | S 34 | Expansion |
| 35 | S 33 | Expansion |
| 34 | S 32 | Expansion |
| 33 | S 31 | Expansion |
| 32 | S 30 | Expansion |
| 31 | S 29 | Expansion |
| 30 | S 28 | Expansion |
| 29 | S 27 | Expansion |
| 28 | S 26 | Expansion |
| 27 | S 25 | Expansion |
| 26 | S 24 | Expansion |
| 25 | S 23 | Expansion |
| 24 | S 22 | Expansion |
| 23 | S 21 | Expansion |
| 22 | SW 2 | Expansion |
| 21 | SW 1 | Expansion |
| 20 | S 20 | Expansion |
| 19 | S 19 | Expansion |
| 18 | S 18 | Expansion |
| 17 | S 17 | Expansion |
| 16 | S 16 | Expansion |
| 15 | S 15 | Expansion |
| 14 | S 14 | Expansion |
| 13 | S 13 | Expansion |
| 12 | S 12 | Expansion |
| 11 | S 11 | Expansion |
| 10 | S 10 | Expansion |
| 9 | S 9 | Expansion |
| 8 | S 8 | Expansion |
| 7 | S 7 | Expansion |
| 6 | S 6 | Expansion |
| 5 | S 5 | Expansion |
| 4 | S 4 | Expansion |
| 3 | S 3 | Expansion |
| 2 | S 2 | Expansion |
| 1 | S 1 | Expansion |

U Rack 3 (R3)

| | | |
|----|------|-----------|
| 42 | | |
| 41 | | |
| 40 | | |
| 39 | | |
| 38 | | |
| 37 | | |
| 36 | | |
| 35 | | |
| 34 | | |
| 33 | | |
| 32 | | |
| 31 | | |
| 30 | | |
| 29 | | |
| 28 | | |
| 27 | | |
| 26 | | |
| 25 | | |
| 24 | | |
| 23 | | |
| 22 | SW 2 | Expansion |
| 21 | SW 1 | Expansion |
| 20 | S 20 | Expansion |
| 19 | S 19 | Expansion |
| 18 | S 18 | Expansion |
| 17 | S 17 | Expansion |
| 16 | S 16 | Expansion |
| 15 | S 15 | Expansion |
| 14 | S 14 | Expansion |
| 13 | S 13 | Expansion |
| 12 | S 12 | Expansion |
| 11 | S 11 | Expansion |
| 10 | S 10 | Expansion |
| 9 | S 9 | Expansion |
| 8 | S 8 | Expansion |
| 7 | S 7 | Expansion |
| 6 | S 6 | Expansion |
| 5 | S 5 | Expansion |
| 4 | S 4 | Expansion |
| 3 | S 3 | Expansion |
| 2 | S 2 | Expansion |
| 1 | S 1 | Expansion |

U Rack 4 (R4)

LC 2000 Series 64 Node GigE DL360 Cluster Reference Design

- Notes: 1. # represents the number of compute nodes.
 2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

| Part Numbers | LC 2000 Series Parts List GigE | 29 - 68 Nodes (Expandable to 128 Nodes) | 69 - 108 Nodes (Expandable to 128 Nodes) | 109 - 128 Nodes (128 Node Max) |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------|
| Factory Integration | | Quantity | Quantity | Quantity |
| 325733-888 | Level 4 Factory Integration | 2 | 3 | 4 |
| 359578-B21 | Configuration Resource Kit | 1 | 1 | 1 |
| DL380G3 Control Node | | Quantity | Quantity | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 | 1 | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | | | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | | | |
| DL360G3 Compute Nodes | | Quantity | Quantity | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | # | # | # |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | | | |
| IB / OOB Management Interconnect | | Quantity | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 2 | 3 | 4 |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 2 | 3 | 4 |
| Compute Interconnect | | Quantity | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | | | |
| 257896-003 | Myrinet 9-Slot Switch Frame, 5U, Max Support 64 Ports - M3-E64 | | | |
| 257896-004 | Myrinet 17-Slot Switch Frame, 9U, Max Support 128 Ports - M3-E128 | 1 | 1 | 1 |
| 356921-B21 | Myrinet 8-Port GigE Switch Card With XBar - M3-SW16-8E *** Round up to the nearest integer. | # / 8 | # / 8 | # / 8 |
| 262818-001 | Myrinet SNMP Monitoring Line Card, Dual Port - M3-M | 1 | 1 | 1 |
| 337807-001 | Myrinet Front Blanking Panel - M3-BLANK *** Round down to the nearest integer. | 16 - # / 8 | 16 - # / 8 | 16 - # / 8 |
| 360363-B21 | Myrinet Switch Rail Kit | 1 | 1 | 1 |
| Common Interconnect Parts | | Quantity | Quantity | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 4 | 6 | 8 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 5 | 7 | 9 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | If # < 40, then # * 3 - 5 else # * 2 + 35. | If # < 80, then # * 3 - 28 else # * 2 + 52. | # * 2 + 53 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | If # < 40, then 13 else # - 27. | If # < 80, then 41 else # - 39. | If # < 120, then # - 39 else 81. |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 | 2 | If # < 120, then 6 else # - 114. |
| Rack and Power Components | | Quantity | Quantity | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 2 | 3 | 4 |
| 221546-YYY | TFT5600RKM | 1 | 1 | 1 |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 | 1 | 1 |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 40, then 4. If 40 < # <= 54, then 5. If # > 54, then 6. | If # <= 80, then 7. If 80 < # <= 94, then 8. If # > 94, then 9. | If # <= 120, then 10 else 11. |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 | 1 | 1 |
| 246107-B21 | Stabilizer 600mm, 10K Series All | | | |
| 248929-B21 | Baying Kit, 10K Series All | 1 | 2 | 3 |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (81 - #) / 10 | (123 - #) / 10 | (165 - #) / 10 |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

LC 2000 Series GigE DL360 Cluster Order Worksheet

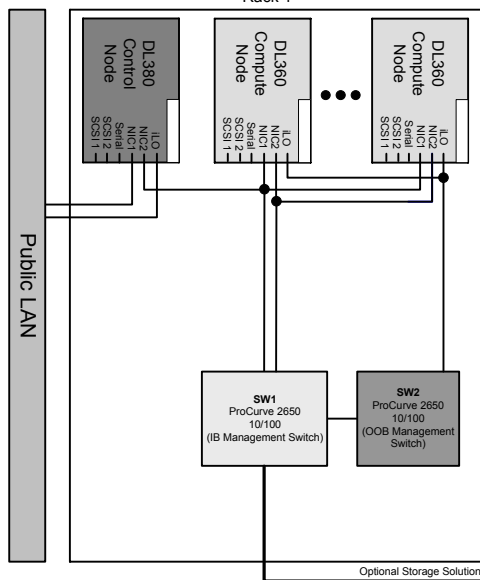
Note: Please make copies for future use.

| Part Numbers | LC 2000 Series Parts List GigE | Order |
|-----------------------------------------|---------------------------------------------------------------------------------|-----------------|
| Factory Integration | | Quantity |
| 325733-888 | Level 4 Factory Integration | |
| 359578-B21 | Configuration Resource Kit | |
| DL380G3 Control Node | | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| DL360G3 Compute Nodes | | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | |
| IB / OOB Management Interconnect | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | |
| Compute Interconnect | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | |
| 257896-003 | Myrinet 9-Slot Switch Frame, 5U, Max Support 64 Ports - M3-E64 | |
| 257896-004 | Myrinet 17-Slot Switch Frame, 9U, Max Support 128 Ports - M3-E128 | |
| 356921-B21 | Myrinet 8-Port GigE Switch Card With XBar - M3-SW16-8E | |
| 262818-001 | Myrinet SNMP Monitoring Line Card, Dual Port - M3-M | |
| 337807-001 | Myrinet Front Blanking Panel - M3-BLANK | |
| 360363-B21 | Myrinet Switch Rail Kit | |
| Common Interconnect Parts | | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack | |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack | |
| Rack and Power Components | | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | |
| 221546-YYY | TFT5600RKM | |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | |
| 246099-B21 | Side Panel 42U, 10K Series All | |
| 246107-B21 | Stabilizer 600mm, 10K Series All | |
| 248929-B21 | Baying Kit, 10K Series All | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All | |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

LC 2000 Series 16 Node Fast Ethernet DL360 Cluster Reference Design

Fast Ethernet (expandable to 22 nodes)



- Notes: 1. # represents the number of compute nodes.
 2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

| | |
|----|--------------------|
| 42 | |
| 41 | |
| 40 | |
| 39 | |
| 38 | |
| 37 | |
| 36 | |
| 35 | |
| 34 | |
| 33 | |
| 32 | |
| 31 | |
| 30 | S 23 DL380 |
| 29 | |
| 28 | |
| 27 | |
| 26 | |
| 25 | S 22 Expansion |
| 24 | S 21 Expansion |
| 23 | S 20 Expansion |
| 22 | SW 2 ProCurve 2650 |
| 21 | SW 1 ProCurve 2650 |
| 20 | TFT5600 |
| 19 | S 19 Expansion |
| 18 | S 18 Expansion |
| 17 | S 17 Expansion |
| 16 | S 16 DL360 |
| 15 | S 15 DL360 |
| 14 | S 14 DL360 |
| 13 | S 13 DL360 |
| 12 | S 12 DL360 |
| 11 | S 11 DL360 |
| 10 | S 10 DL360 |
| 9 | S 9 DL360 |
| 8 | S 8 DL360 |
| 7 | S 7 DL360 |
| 6 | S 6 DL360 |
| 5 | S 5 DL360 |
| 4 | S 4 DL360 |
| 3 | S 3 DL360 |
| 2 | S 2 DL360 |
| 1 | S 1 DL360 |

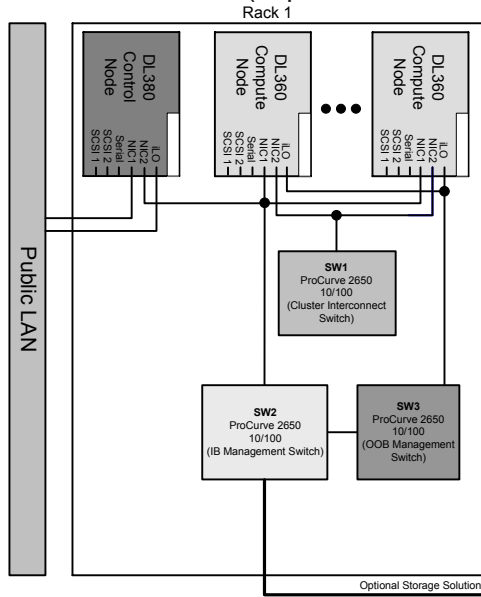
U Rack 1 (R1)

| Part Number Key | | | |
|-----------------|-----|-----|---------|
| | WWW | XXX | YYY ZZZ |
| US | ABA | 001 | 001 D72 |
| EMEA | ABB | 421 | B31 B31 |

| LC 2000 Series Parts List | | 1 - 22 Nodes (22 Node Max) |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| Part Numbers | Fast Ethernet | Quantity |
| Factory Integration | | |
| 325733-888 | Level 4 Factory Integration | 1 |
| 359578-B21 | Configuration Resource Kit | 1 |
| DL380G3 Control Node | | |
| | | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| DL360G3 Compute Nodes | | |
| | | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | # |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | |
| IB / OOB Management Interconnect | | |
| | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 1 |
| Compute Interconnect | | |
| | | Quantity |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 1 |
| J4848A#WWW | Procurve 5372xl - 10/100-TX Switch, 8 Slot Modules, 5U, 3 Slots Filled | |
| J4820A | Procurve Switch XL 10/100-TX Switch Module, 24 Ports Per Module *** Round up to the nearest integer. | |
| Common Interconnect Parts | | |
| | | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 2 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 2 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | # * 3 + 1 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 1 |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 |
| Rack and Power Components | | |
| | | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 1 |
| 221546-YYY | TFT5600RKM | 1 |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 9, then 1 else 2 |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 |
| 246107-B21 | Stabilizer 600mm, 10K Series All | 1 |
| 248929-B21 | Baying Kit, 10K Series All | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (39 - #) / 10 |

LC 2000 Series 24 Node Fast Ethernet DL360 Cluster Reference Design

Fast Ethernet (expandable to 36 nodes)



Notes: 1. # represents the number of compute nodes.
2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

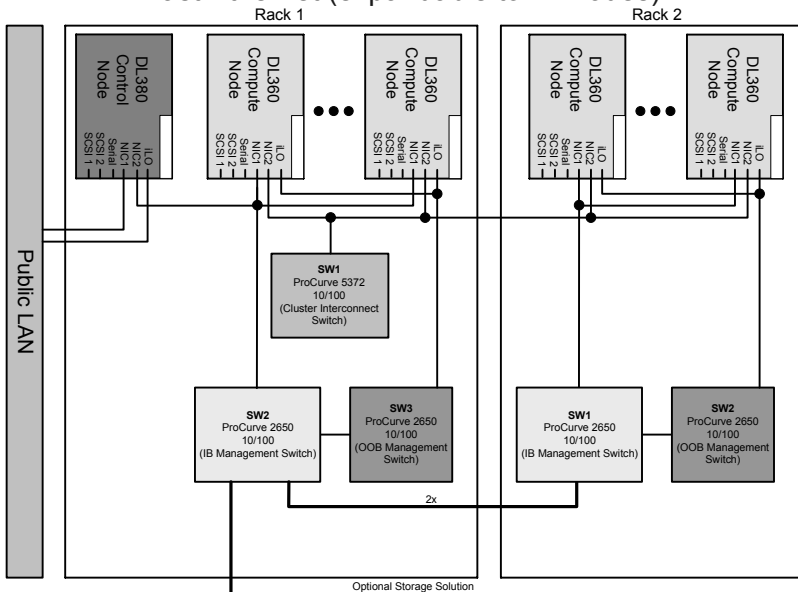
| | | |
|----|---------|---------------|
| 42 | S 37 | Expansion |
| 41 | S 36 | Expansion |
| 40 | S 35 | Expansion |
| 39 | S 34 | Expansion |
| 38 | S 33 | Expansion |
| 37 | S 32 | Expansion |
| 36 | S 31 | Expansion |
| 35 | S 30 | Expansion |
| 34 | S 29 | Expansion |
| 33 | S 28 | Expansion |
| 32 | S 27 | Expansion |
| 31 | S 26 | Expansion |
| 30 | S 25 | DL380 |
| 29 | S 24 | DL360 |
| 28 | S 23 | DL360 |
| 27 | S 22 | DL360 |
| 26 | S 21 | DL360 |
| 25 | S 20 | DL360 |
| 24 | S 19 | DL360 |
| 23 | S 18 | DL360 |
| 22 | SW 3 | ProCurve 2650 |
| 21 | SW 2 | ProCurve 2650 |
| 20 | TFT5600 | |
| 19 | SW 1 | ProCurve 2650 |
| 18 | S 18 | DL360 |
| 17 | S 17 | DL360 |
| 16 | S 16 | DL360 |
| 15 | S 15 | DL360 |
| 14 | S 14 | DL360 |
| 13 | S 13 | DL360 |
| 12 | S 12 | DL360 |
| 11 | S 11 | DL360 |
| 10 | S 10 | DL360 |
| 9 | S 9 | DL360 |
| 8 | S 8 | DL360 |
| 7 | S 7 | DL360 |
| 6 | S 6 | DL360 |
| 5 | S 5 | DL360 |
| 4 | S 4 | DL360 |
| 3 | S 3 | DL360 |
| 2 | S 2 | DL360 |
| 1 | S 1 | DL360 |

| Part Number Key | | | |
|-----------------|-----|-----|---------|
| | WWW | XXX | YYY ZZZ |
| US | ABA | 001 | 001 D72 |
| EMEA | ABB | 421 | B31 B31 |

| Part Numbers | LC 2000 Series Parts List Fast Ethernet | 1 - 36 Nodes (36 Node Max) |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Factory Integration | | Quantity |
| 325733-888 | Level 4 Factory Integration | 1 |
| 359578-B21 | Configuration Resource Kit | 1 |
| DL380G3 Control Node | | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| DL360G3 Compute Nodes | | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | # |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | |
| IB / OOB Management Interconnect | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 2 |
| Compute Interconnect | | Quantity |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 1 |
| J4848A#WWW | Procurve 5372xl - 10/100-TX Switch, 8 Slot Modules, 5U, 3 Slots Filled | |
| J4820A | Procurve Switch XL 10/100-TX Switch Module, 24 Ports Per Module *** Round up to the nearest integer. | |
| Common Interconnect Parts | | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 3 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 3 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | # * 3 + 1 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 1 |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 |
| Rack and Power Components | | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 1 |
| 221546-YYY | TFT5600RKM | 1 |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 8, then 1. If 8 < # <= 22, then 2. If # > 22, then 3. |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 |
| 246107-B21 | Stabilizer 600mm, 10K Series All | 1 |
| 248929-B21 | Baying Kit, 10K Series All | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (39 - #) / 10 |

LC 2000 Series 32 Node Fast Ethernet DL360 Cluster Reference Design

Fast Ethernet (expandable to 72 nodes)



- Notes: 1. # represents the number of compute nodes.
 2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

| | | |
|----|------|---------------|
| 42 | S 33 | DL360 |
| 41 | S 32 | DL360 |
| 40 | S 31 | DL360 |
| 39 | S 30 | DL360 |
| 38 | S 29 | DL360 |
| 37 | S 28 | DL360 |
| 36 | S 27 | DL360 |
| 35 | S 26 | DL360 |
| 34 | S 25 | DL360 |
| 33 | S 24 | DL360 |
| 32 | S 23 | DL360 |
| 31 | S 22 | DL360 |
| 30 | S 21 | DL380 |
| 29 | | |
| 28 | S 20 | DL360 |
| 27 | S 19 | DL360 |
| 26 | S 18 | DL360 |
| 25 | S 17 | DL360 |
| 24 | S 16 | DL360 |
| 23 | S 15 | DL360 |
| 22 | SW 3 | ProCurve 2650 |
| 21 | SW 2 | ProCurve 2650 |
| 20 | | TFT5600 |
| 19 | S 14 | DL360 |
| 18 | S 13 | DL360 |
| 17 | S 12 | DL360 |
| 16 | S 11 | DL360 |
| 15 | S 10 | DL360 |
| 14 | S 9 | DL360 |
| 13 | S 8 | DL360 |
| 12 | S 7 | DL360 |
| 11 | S 6 | DL360 |
| 10 | S 5 | DL360 |
| 9 | S 4 | DL360 |
| 8 | S 3 | DL360 |
| 7 | S 2 | DL360 |
| 6 | S 1 | DL360 |
| 5 | | |
| 4 | | |
| 3 | SW 1 | ProCurve 5372 |
| 2 | | |
| 1 | | |

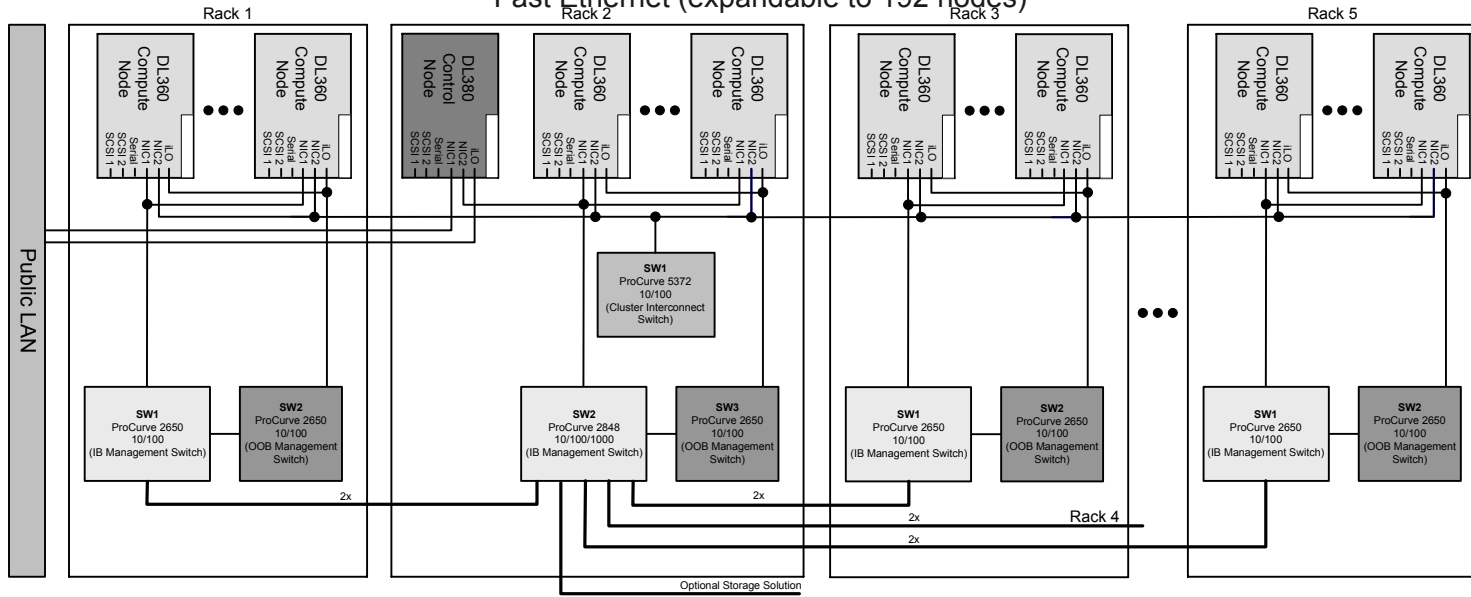
| | | |
|----|------|-----------|
| 42 | S 40 | Expansion |
| 41 | S 39 | Expansion |
| 40 | S 38 | Expansion |
| 39 | S 37 | Expansion |
| 38 | S 36 | Expansion |
| 37 | S 35 | Expansion |
| 36 | S 34 | Expansion |
| 35 | S 33 | Expansion |
| 34 | S 32 | Expansion |
| 33 | S 31 | Expansion |
| 32 | S 30 | Expansion |
| 31 | S 29 | Expansion |
| 30 | S 28 | Expansion |
| 29 | S 27 | Expansion |
| 28 | S 26 | Expansion |
| 27 | S 25 | Expansion |
| 26 | S 24 | Expansion |
| 25 | S 23 | Expansion |
| 24 | S 22 | Expansion |
| 23 | S 21 | Expansion |
| 22 | SW 2 | Expansion |
| 21 | SW 1 | Expansion |
| 20 | S 20 | Expansion |
| 19 | S 19 | Expansion |
| 18 | S 18 | Expansion |
| 17 | S 17 | Expansion |
| 16 | S 16 | Expansion |
| 15 | S 15 | Expansion |
| 14 | S 14 | Expansion |
| 13 | S 13 | Expansion |
| 12 | S 12 | Expansion |
| 11 | S 11 | Expansion |
| 10 | S 10 | Expansion |
| 9 | S 9 | Expansion |
| 8 | S 8 | Expansion |
| 7 | S 7 | Expansion |
| 6 | S 6 | Expansion |
| 5 | S 5 | Expansion |
| 4 | S 4 | Expansion |
| 3 | S 3 | Expansion |
| 2 | S 2 | Expansion |
| 1 | S 1 | Expansion |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

| Part Numbers | LC 2000 Series Parts List | 1 - 32 Nodes (Expandable to 72 Nodes) | 33 - 72 Nodes (72 Node Max) |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------------|
| Fast Ethernet | | | |
| Factory Integration | | | |
| | | Quantity | Quantity |
| 325733-888 | Level 4 Factory Integration | 1 | 2 |
| 359578-B21 | Configuration Resource Kit | 1 | 1 |
| DL380G3 Control Node | | | |
| | | Quantity | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 | 1 |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | | |
| DL360G3 Compute Nodes | | | |
| | | Quantity | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | # | # |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | # | # |
| IB / OOB Management Interconnect | | | |
| | | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | | |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 2 | 4 |
| Compute Interconnect | | | |
| | | Quantity | Quantity |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | | |
| J4848A#WWW | Procurve 5372xl - 10/100-TX Switch, 8 Slot Modules, 5U, 3 Slots Filled | 1 | 1 |
| J4820A | Procurve Switch XL 10/100-TX Switch Module, 24 Ports Per Module *** Round up to the nearest integer. | | |
| Common Interconnect Parts | | | |
| | | Quantity | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 2 | 4 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 3 | 5 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | If # < 20, then # * 3 + 1 else # * 2 + 21. | If # < 44, then # * 3 - 8 else # * 2 + 36. |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | If # < 20, then 1 else # - 19. | If # < 44, then 13 else # - 31. |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 | 2 |
| Rack and Power Components | | | |
| | | Quantity | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 1 | 2 |
| 221546-YYY | TFT5600RKM | 1 | 1 |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 | 1 |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 6, then 1. If 8 < # <= 20, then 2. If # > 20, then 3. | If # <= 44, then 4. If 44 < # <= 58, then 5. If # > 58, then 6. |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 | 1 |
| 246107-B21 | Stabilizer 600mm, 10K Series All | 1 | |
| 248929-B21 | Baying Kit, 10K Series All | | 1 |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (39 - #) / 10 | (81 - #) / 10 |

LC 2000 Series 64 Node Fast Ethernet DL360 Cluster Reference Design

Fast Ethernet (expandable to 192 nodes)



| | | |
|----|------|---------------|
| 42 | S 40 | Expansion |
| 41 | S 39 | Expansion |
| 40 | S 38 | Expansion |
| 39 | S 37 | Expansion |
| 38 | S 36 | DL360 |
| 37 | S 35 | DL360 |
| 36 | S 34 | DL360 |
| 35 | S 33 | DL360 |
| 34 | S 32 | DL360 |
| 33 | S 31 | DL360 |
| 32 | S 30 | DL360 |
| 31 | S 29 | DL360 |
| 30 | S 28 | DL360 |
| 29 | S 27 | DL360 |
| 28 | S 26 | DL360 |
| 27 | S 25 | DL360 |
| 26 | S 24 | DL360 |
| 25 | S 23 | DL360 |
| 24 | S 22 | DL360 |
| 23 | S 21 | DL360 |
| 22 | SW 2 | ProCurve 2650 |
| 21 | SW 1 | ProCurve 2848 |
| 20 | S 20 | DL360 |
| 19 | S 19 | DL360 |
| 18 | S 18 | DL360 |
| 17 | S 17 | DL360 |
| 16 | S 16 | DL360 |
| 15 | S 15 | DL360 |
| 14 | S 14 | DL360 |
| 13 | S 13 | DL360 |
| 12 | S 12 | DL360 |
| 11 | S 11 | DL360 |
| 10 | S 10 | DL360 |
| 9 | S 9 | DL360 |
| 8 | S 8 | DL360 |
| 7 | S 7 | DL360 |
| 6 | S 6 | DL360 |
| 5 | S 5 | DL360 |
| 4 | S 4 | DL360 |
| 3 | S 3 | DL360 |
| 2 | S 2 | DL360 |
| 1 | S 1 | DL360 |

U Rack 1 (R1)

| | | |
|----|---------------------------------------------------------|---------------|
| 42 | S 29 | DL360 |
| 41 | S 28 | DL360 |
| 40 | S 27 | DL360 |
| 39 | S 26 | DL360 |
| 38 | S 25 | DL360 |
| 37 | S 24 | DL360 |
| 36 | S 23 | DL360 |
| 35 | S 22 | DL360 |
| 34 | S 21 | DL360 |
| 33 | S 20 | DL360 |
| 32 | S 19 | DL360 |
| 31 | S 18 | DL360 |
| 30 | S 17 | DL380 |
| 29 | S 16 | DL360 |
| 28 | S 15 | DL360 |
| 27 | S 14 | DL360 |
| 26 | S 13 | DL360 |
| 25 | S 12 | DL360 |
| 24 | S 11 | DL360 |
| 23 | SW 3 | ProCurve 2650 |
| 22 | SW 2 | ProCurve 2848 |
| 21 | SW 1 | ProCurve 2848 |
| 20 | TFT 5600 | |
| 19 | S 10 | DL360 |
| 18 | S 9 | DL360 |
| 17 | S 8 | DL360 |
| 16 | S 7 | DL360 |
| 15 | S 6 | DL360 |
| 14 | S 5 | DL360 |
| 13 | S 4 | DL360 |
| 12 | S 3 | DL360 |
| 11 | S 2 | DL360 |
| 10 | S 1 | DL360 |
| 9 | Myricom 17 slot SW 1 chassis w/Myrinet line cards | |
| 8 | | |
| 7 | | |
| 6 | | |
| 5 | | |
| 4 | | |
| 3 | | |
| 2 | | |
| 1 | S 1 | DL360 |

U Rack 2 (R2)

| | | |
|----|------|-----------|
| 42 | S 40 | Expansion |
| 41 | S 39 | Expansion |
| 40 | S 38 | Expansion |
| 39 | S 37 | Expansion |
| 38 | S 36 | Expansion |
| 37 | S 35 | Expansion |
| 36 | S 34 | Expansion |
| 35 | S 33 | Expansion |
| 34 | S 32 | Expansion |
| 33 | S 31 | Expansion |
| 32 | S 30 | Expansion |
| 31 | S 29 | Expansion |
| 30 | S 28 | Expansion |
| 29 | S 27 | Expansion |
| 28 | S 26 | Expansion |
| 27 | S 25 | Expansion |
| 26 | S 24 | Expansion |
| 25 | S 23 | Expansion |
| 24 | S 22 | Expansion |
| 23 | S 21 | Expansion |
| 22 | SW 2 | Expansion |
| 21 | SW 1 | Expansion |
| 20 | S 20 | Expansion |
| 19 | S 19 | Expansion |
| 18 | S 18 | Expansion |
| 17 | S 17 | Expansion |
| 16 | S 16 | Expansion |
| 15 | S 15 | Expansion |
| 14 | S 14 | Expansion |
| 13 | S 13 | Expansion |
| 12 | S 12 | Expansion |
| 11 | S 11 | Expansion |
| 10 | S 10 | Expansion |
| 9 | S 9 | Expansion |
| 8 | S 8 | Expansion |
| 7 | S 7 | Expansion |
| 6 | S 6 | Expansion |
| 5 | S 5 | Expansion |
| 4 | S 4 | Expansion |
| 3 | S 3 | Expansion |
| 2 | S 2 | Expansion |
| 1 | S 1 | Expansion |

U Rack 3 (R3)

| | | |
|----|------|-----------|
| 42 | | |
| 41 | | |
| 40 | | |
| 39 | | |
| 38 | | |
| 37 | | |
| 36 | | |
| 35 | | |
| 34 | | |
| 33 | | |
| 32 | | |
| 31 | | |
| 30 | | |
| 29 | | |
| 28 | | |
| 27 | | |
| 26 | | |
| 25 | | |
| 24 | | |
| 23 | | |
| 22 | SW 2 | Expansion |
| 21 | SW 1 | Expansion |
| 20 | S 20 | Expansion |
| 19 | S 19 | Expansion |
| 18 | S 18 | Expansion |
| 17 | S 17 | Expansion |
| 16 | S 16 | Expansion |
| 15 | S 15 | Expansion |
| 14 | S 14 | Expansion |
| 13 | S 13 | Expansion |
| 12 | S 12 | Expansion |
| 11 | S 11 | Expansion |
| 10 | S 10 | Expansion |
| 9 | S 9 | Expansion |
| 8 | S 8 | Expansion |
| 7 | S 7 | Expansion |
| 6 | S 6 | Expansion |
| 5 | S 5 | Expansion |
| 4 | S 4 | Expansion |
| 3 | S 3 | Expansion |
| 2 | S 2 | Expansion |
| 1 | S 1 | Expansion |

U Rack 4 (R4)

LC 2000 Series 64 Node Fast Ethernet DL360 Cluster Reference Design

- Notes: 1. # represents the number of compute nodes.
2. Please refer to the server options table for adding processors, memory, disks, network adapters, ...

| Part Numbers | LC 2000 Series Parts List Fast Ethernet | 33 - 72 Nodes (Expandable to 192 Nodes) | 73 - 112 Nodes (Expandable to 192 Nodes) | 113 - 152 Nodes (Expandable to 192 Nodes) | 153 - 192 Nodes (Expandable to 192 Nodes) |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| | Factory Integration | Quantity | Quantity | Quantity | Quantity |
| 325733-888 | Level 4 Factory Integration | 2 | 3 | 4 | 5 |
| 359578-B21 | Configuration Resource Kit | 1 | 1 | 1 | 1 |
| | DL380G3 Control Node | Quantity | Quantity | Quantity | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 | 1 | 1 | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | | | | |
| | DL360G3 Compute Nodes | Quantity | Quantity | Quantity | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | # | # | # | # |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | | | | |
| | IB / OOB Management Interconnect | Quantity | Quantity | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 1 | 1 | 1 | 1 |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 3 | 5 | 7 | 9 |
| | Compute Interconnect | Quantity | Quantity | Quantity | Quantity |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | 1 | 1 | 1 | 1 |
| J4848A#WWW | Procurve 5372xl - 10/100-TX Switch, 8 Slot Modules, 5U, 3 Slots Filled | | | | |
| J4820A | Procurve Switch XL 10/100-TX Switch Module, 24 Ports Per Module *** Round up to the nearest integer. | | # / 24 - 3 | # / 24 - 3 | # / 24 - 3 |
| | Common Interconnect Parts | Quantity | Quantity | Quantity | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 4 | 6 | 8 | 10 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 5 | 7 | 9 | 11 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | If # < 44, then # * 3 - 8 else # * 2 + 36. | If # < 84, then # * 3 - 33 else # * 2 + 51. | # * 2 + 52 | # * 2 + 53 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | If # < 44, then 13 else # - 31. | If # < 84, then 41 else # - 43. | If # < 124, then # - 43 else 81. | 81 |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 4 and round up to the nearest integer. | 2 | 2 | If # < 124, then 4 else # - 120. | # - 118 |
| | Rack and Power Components | Quantity | Quantity | Quantity | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | 2 | 3 | 4 | 5 |
| 221546-YYY | TFT5600RKM | 1 | 1 | 1 | 1 |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | 1 | 1 | 1 | 1 |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | If # <= 44, then 4. If 44 < # <= 58, then 5. If # > 58, then 6. | If # <= 84, then 7. If 84 < # <= 98, then 8. If # > 98, then 9. | If # <= 124, then 10. If 124 < # <= 138, then 11. If # > 138, then 12. | If # <= 164, then 13. If 164 < # <= 178, then 14. If # > 178, then 15. |
| 246099-B21 | Side Panel 42U, 10K Series All | 1 | 1 | 1 | 1 |
| 246107-B21 | Stabilizer 600mm, 10K Series All | | | | |
| 248929-B21 | Baying Kit, 10K Series All | 1 | 2 | 3 | 4 |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All *** Round up to the nearest integer. | (81 - #) / 10 | (123 - #) / 10 | (165 - #) / 10 | (207 - #) / 10 |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

LC 2000 Series Fast Ethernet DL360 Cluster Order Worksheet

Note: Please make copies for future use.

| Part Numbers | LC 1000 Series Parts List Fast Ethernet | Order |
|-----------------------------------------|---------------------------------------------------------------------------------|-----------------|
| Factory Integration | | Quantity |
| 325733-888 | Level 4 Factory Integration | |
| 359578-B21 | Configuration Resource Kit | |
| DL380G3 Control Node | | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| DL360G3 Compute Nodes | | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | |
| IB / OOB Management Interconnect | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | |
| Compute Interconnect | | Quantity |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | |
| J4848A#WWW | Procurve 5372xl - 10/100-TX Switch, 8 Slot Modules, 5U, 3 Slots Filled | |
| J4820A | Procurve Switch XL 10/100-TX Switch Module, 24 Ports Per Module | |
| Common Interconnect Parts | | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack | |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack | |
| Rack and Power Components | | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | |
| 221546-YYY | TFT5600RKM | |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | |
| 246099-B21 | Side Panel 42U, 10K Series All | |
| 246107-B21 | Stabilizer 600mm, 10K Series All | |
| 248929-B21 | Baying Kit, 10K Series All | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All | |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

LC 2000 Series DL380 and DL360 Options

Note: Please make copies for future use.

| Part Numbers | LC 2000 Series Parts List Options | |
|--------------|--------------------------------------------------------|-----------------|
| | | Order |
| | DL380G3 Control Node | Quantity |
| 293048-B21 | Fan Kit | |
| 313054-B21 | Hot Plug Redundant Power Supply | |
| 333714-B21 | 1P-3.2GHz 1MB Cache 533MHz FSB Processor Option Kit | |
| 333713-B21 | 1P-3.06GHz 1MB Cache 533MHz FSB Processor Option Kit | |
| 257916-B21 | 1P-3.06GHz 512KB Cache 533MHz FSB Processor Option Kit | |
| 257915-B21 | 1P-2.8GHz 512KB Cache 400MHz FSB Processor Option Kit | |
| 300678-B21 | 512MB PC2100 Memory Kit (2X256MB) | |
| 300679-B21 | 1024MB PC2100 Memory Kit (2X512MB) | |
| 300680-B21 | 2048MB PC2100 Memory Kit (2X1024MB) | |
| 300682-B21 | 4096MB PC2100 Memory Kit (2X2048MB) | |
| 286713-B22 | 36.4GB 10K HDD U320 | |
| 286714-B22 | 72.8GB 10K HDD U320 | |
| 286716-B22 | 146.8GB 10K HDD U320 | |
| 286775-B22 | 18.2GB 15K HDD U320 | |
| 286776-B22 | 36.4GB 15K HDD U320 | |
| 286778-B22 | 72.8GB 15K HDD U320 | |
| 313881-B21 | NC7170 Dual Port 1000T Gigabit Server Adapter | |
| 290563-B21 | NC7771 PCI-X 10/100/1000-T Server Adapter | |
| 263825-B21 | iLO Advanced Pack All | |
| | DL360G3 Compute Nodes | Quantity |
| 353831-B21 | 1P-3.2GHz 2MB Cache 533MHz Processor Option Kit | |
| 345103-B21 | 1P-3.2GHz 1MB Cache 533MHz Processor Option Kit | |
| 337056-B21 | 1P-3.06GHz 1MB Cache 533MHz Processor Option Kit | |
| 322472-B21 | 1P-3.06GHz 512KB Cache 533MHz Processor Option Kit | |
| 359384-B21 | 1P-2.8GHz 1MB Cache 533MHz Processor Option Kit | |
| 292892-B21 | 1P-2.8GHz 512KB Cache 533MHz Processor Option Kit | |
| 300678-B21 | 512MB PC2100 Memory Kit (2X256MB) | |
| 300679-B21 | 1024MB PC2100 Memory Kit (2X512MB) | |
| 300680-B21 | 2048MB PC2100 Memory Kit (2X1024MB) | |
| 300682-B21 | 4096MB PC2100 Memory Kit (2X2048MB) | |
| 286713-B22 | 36.4GB 10K HDD U320 | |
| 286714-B22 | 72.8GB 10K HDD U320 | |
| 286716-B22 | 146.8GB 10K HDD U320 | |
| 286775-B22 | 18.2GB 15K HDD U320 | |
| 286776-B22 | 36.4GB 15K HDD U320 | |
| 286778-B22 | 72.8GB 15K HDD U320 | |
| 313881-B21 | NC7170 Dual Port 1000T Gigabit Server Adapter | |
| 290563-B21 | NC7771 PCI-X 10/100/1000-T Server Adapter | |
| 263825-B21 | iLO Advanced Pack All | |

LC 2000 Series Software Options

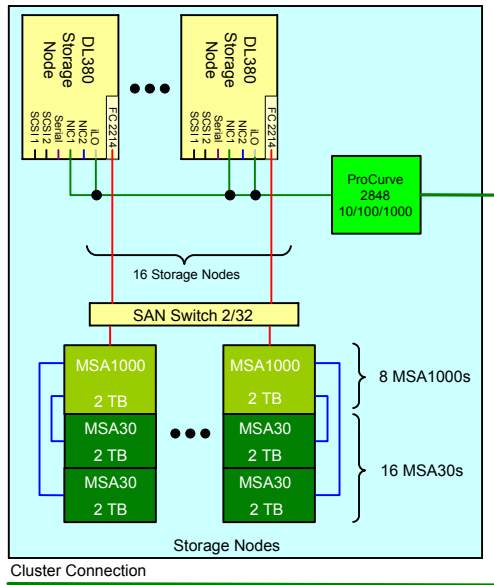
Notes: 1. # represents the number of compute nodes.
2. Please make multiple copies for future use.

| Part Numbers | LC 2000 Series Software Options | Order | | |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-----------------|
| Red Hat - 1 Year | | Control | Compute | Quantity |
| 365979-002 | Red Hat Enterprise Linux ES 3 1-2 CPU, 1 Year (Americas) | 1 | | |
| 351374-B21 | Red Hat Enterprise Linux ES 3 1-2 CPU, 1 Year (EMEA) | | | |
| 365985-002 | Red Hat Enterprise Linux AS 3 1-2 CPU, 1 Year (Americas) | | | |
| 351372-B21 | Red Hat Enterprise Linux AS 3 1-2 CPU, 1 Year (EMEA) | | | |
| 366313-B21 | Red Hat WS 3 / High Performance Computing (32-bit), Base 8 Pack and Media, 1 Year | | 1 | |
| 359971-B21 | Red Hat WS 3 / High Performance Computing (32-bit), Additional 8 Pack, 1 Year *** Round up to the nearest integer. | | (# - 8) / 8 | |
| Red Hat - 3 Year | | Control | Compute | Quantity |
| 365980-002 | Red Hat Enterprise Linux ES 3 1-2 CPU, 3 Year (Americas) | 1 | | |
| 351375-B21 | Red Hat Enterprise Linux ES 3 1-2 CPU, 3 Year (EMEA) | | | |
| 365986-002 | Red Hat Enterprise Linux AS 3 1-2 CPU, 3 Year (Americas) | | | |
| 351373-B21 | Red Hat Enterprise Linux AS 3 1-2 CPU, 3 Year (EMEA) | | | |
| 366316-B21 | Red Hat WS 3 / High Performance Computing (32-bit), Base 8 Pack and Media, 3 Year | | 1 | |
| 359972-B21 | Red Hat WS 3 / High Performance Computing (32-bit), Additional 8 Pack, 3 Year *** Round up to the nearest integer. | | (# - 8) / 8 | |
| SUSE - 1 Year | | Control | Compute | Quantity |
| 344074-B21 | SLES 8 1-2 CPU, 1 Year | 1 | | |
| 366319-B21 | SLES 8 / High Performance Computing (32-bit), Base 8 Pack and Media, 1 Year | | 1 | |
| 359973-B21 | SLES 8 / High Performance Computing (32-bit), Additional 8 Pack, 1 Year *** Round up to the nearest integer. | | (# - 8) / 8 | |
| SUSE - 3 Year | | Control | Compute | Quantity |
| 344075-B21 | SLES 8 1-2 CPU, 3 Year | 1 | | |
| 366322-B21 | SLES 8 / High Performance Computing (32-bit), Base 8 Pack and Media, 3 Year | | 1 | |
| 359974-B21 | SLES 8 / High Performance Computing (32-bit), Additional 8 Pack, 3 Year *** Round up to the nearest integer. | | (# - 8) / 8 | |
| Microsoft Windows | | Control | Compute | Quantity |
| 339105-B21 | Microsoft Windows Server 2003, Standard Edition, 5 Client Access Licenses | 1 | | |
| 339233-B21 | Microsoft Windows Server 2003, Enterprise Edition, 25 Client Access Licenses | | | |
| 354663-B21 | Microsoft Windows Server 2003, Standard Edition for High Performance Computing, Media and 16-License Pack *** Round up to the nearest integer. | | # / 16 | |

Note: Scali Manage/Connect is supported on Linux operating systems only.

| | Scali | Control | Compute | Quantity |
|------------|------------------------------------------------------------------|---------|---------|----------|
| 359960-B21 | Scali Manage/Connect for TCP/IP, Media and Control Node License | 1 | | |
| 359962-B21 | Scali Manage/Connect for Myrinet, Media and Control Node License | | | |
| 366382-B21 | Scali Manage/Connect, Compute Node License | | # | |

LC 2000 Series Fibre Channel GFS (16 node - 48 TB)



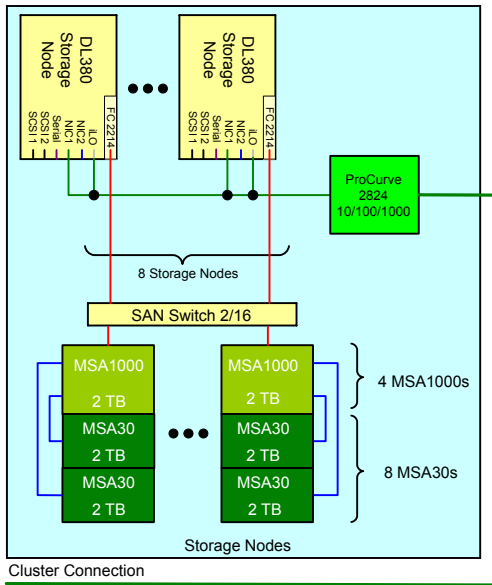
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| 41 | Empty | Empty | Empty |
| 40 | Empty | | |
| 39 | Empty | MSA1000 | MSA1000 |
| 38 | Empty | 2 TB | 2 TB |
| 37 | Empty | | |
| 36 | Empty | | |
| 35 | Empty | MSA30 | MSA30 |
| 34 | ProCurve 2848 | 2 TB | 2 TB |
| 33 | FC SW | MSA30 | MSA30 |
| 32 | DL380 | 2 TB | 2 TB |
| 31 | Storage Node | | |
| 30 | DL380 | | |
| 29 | Storage Node | MSA1000 | MSA1000 |
| 28 | DL380 | 2 TB | 2 TB |
| 27 | Storage Node | | |
| 26 | DL380 | | |
| 25 | Storage Node | MSA30 | MSA30 |
| 24 | DL380 | 2 TB | 2 TB |
| 23 | Storage Node | | |
| 22 | DL380 | MSA30 | MSA30 |
| 21 | Storage Node | 2 TB | 2 TB |
| 20 | DL380 | | |
| 19 | Storage Node | MSA1000 | MSA1000 |
| 18 | DL380 | 2 TB | 2 TB |
| 17 | Storage Node | | |
| 16 | DL380 | | |
| 15 | Storage Node | MSA30 | MSA30 |
| 14 | DL380 | 2 TB | 2 TB |
| 13 | Storage Node | | |
| 12 | DL380 | MSA30 | MSA30 |
| 11 | Storage Node | 2 TB | 2 TB |
| 10 | DL380 | | |
| 9 | Storage Node | MSA1000 | MSA1000 |
| 8 | DL380 | 2 TB | 2 TB |
| 7 | Storage Node | | |
| 6 | DL380 | | |
| 5 | Storage Node | MSA30 | MSA30 |
| 4 | DL380 | 2 TB | 2 TB |
| 3 | Storage Node | | |
| 2 | DL380 | MSA30 | MSA30 |
| 1 | Storage Node | 2 TB | 2 TB |

| Part Number Key | | |
|-----------------|-----|-----|
| | WWW | XXX |
| US | ABA | 001 |
| EMEA | ABB | 421 |

Note: Please refer to the storage subsystem options table for adding processors, memory, disks, network adapters, rack and power, ...

| Part Numbers | Storage Subsystem Parts List | FC GFS 16 node - 48 TB Quantity |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| DL380G3 Storage Node | | |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 16 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| 281541-B21 | FCA2214 (FC HBA) | 16 |
| 273914-B21 | SA 6404 (SCSI HBA) | |
| Storage Components | | |
| 302969-B21 | MSA30 SB w/1 12' VHDCI cable | 16 |
| 201724-B21 | MSA500 w/2 6' VHDCI cables & 128MB cache | |
| 201723-B22 | MSA1000 w/256MB cache, I/O module & 1 SFP | 8 |
| Management/Storage Interconnect | | |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 1 |
| J4903A#WWW | ProCurve 2824 - 10/100/1000-T Switch, 24 Ports, 1U | |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 1 |
| 288247-B21 | MSA1000 SAN Switch 2/8 (Ships with 4 SFPs) | |
| 322118-B21 | SAN Switch 2/16 | |
| 240603-B21 | SAN Switch 2/32 | 1 |
| 221470-B21 | 2 Gb SFP SW Transceiver | 48 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 2 |
| 221692-B21 | Fiber Cable, LC-LC, Optical, 2M | 8 |
| 221692-B22 | Fiber Cable, LC-LC, Optical, 5M | 8 |
| 221692-B23 | Fiber Cable, LC-LC, Optical, 15M | 8 |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 16 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 16 |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 4 |

LC 2000 Series Fibre Channel GFS (8 node - 24 TB)



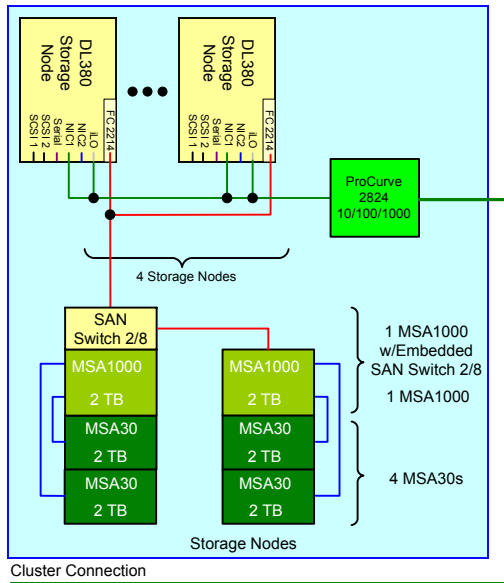
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| 40 | Empty | Empty |
| 39 | Empty | MSA1000 |
| 38 | Empty | 2 TB |
| 37 | Empty | Empty |
| 36 | Empty | Empty |
| 35 | Empty | MSA30 |
| 34 | Empty | 2 TB |
| 33 | Empty | Empty |
| 32 | Empty | MSA30 |
| 31 | Empty | 2 TB |
| 30 | Empty | Empty |
| 29 | Empty | MSA1000 |
| 28 | Empty | 2 TB |
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| 24 | Empty | 2 TB |
| 23 | Empty | Empty |
| 22 | Empty | MSA30 |
| 21 | Empty | 2 TB |
| 20 | Empty | Empty |
| 19 | Empty | MSA1000 |
| 18 | ProCurve 2824 | 2 TB |
| 17 | FC SW | Empty |
| 16 | DL380 | Empty |
| 15 | Storage Node | MSA30 |
| 14 | DL380 | 2 TB |
| 13 | Storage Node | Empty |
| 12 | DL380 | MSA30 |
| 11 | Storage Node | 2 TB |
| 10 | DL380 | Empty |
| 9 | Storage Node | MSA1000 |
| 8 | DL380 | 2 TB |
| 7 | Storage Node | Empty |
| 6 | DL380 | Empty |
| 5 | Storage Node | MSA30 |
| 4 | DL380 | 2 TB |
| 3 | Storage Node | Empty |
| 2 | DL380 | MSA30 |
| 1 | Storage Node | 2 TB |

Note: Please refer to the storage subsystem options table for adding processors, memory, disks, network adapters, rack and power, ...

| Part Numbers | Storage Subsystem Parts List | FC GFS 8 node - 24TB Quantity |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| DL380G3 Storage Node | | |
| Quantity | | |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 8 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| 281541-B21 | FCA2214 (FC HBA) | 8 |
| 273914-B21 | SA 6404 (SCSI HBA) | |
| Storage Components | | |
| Quantity | | |
| 302969-B21 | MSA30 SB w/1 12' VHDCI cable | 8 |
| 201724-B21 | MSA500 w/2 6' VHDCI cables & 128MB cache | |
| 201723-B22 | MSA1000 w/256MB cache, I/O module & 1 SFP | 4 |
| Management/Storage Interconnect | | |
| Quantity | | |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | |
| J4903A#WWW | ProCurve 2824 - 10/100/1000-T Switch, 24 Ports, 1U | 1 |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 1 |
| 288247-B21 | MSA1000 SAN Switch 2/8 (Ships with 4 SFPs) | |
| 322118-B21 | SAN Switch 2/16 | 1 |
| 240603-B21 | SAN Switch 2/32 | |
| 221470-B21 | 2 Gb SFP SW Transceiver | 24 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 2 |
| 221692-B21 | Fiber Cable, LC-LC, Optical, 2M | 6 |
| 221692-B22 | Fiber Cable, LC-LC, Optical, 5M | 6 |
| 221692-B23 | Fiber Cable, LC-LC, Optical, 15M | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 8 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 8 |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 4 |

| Part Number Key | | |
|-----------------|-----|-----|
| | WWW | XXX |
| US | ABA | 001 |
| EMEA | ABB | 421 |

LC 2000 Series Fibre Channel GFS (4 node - 12 TB)



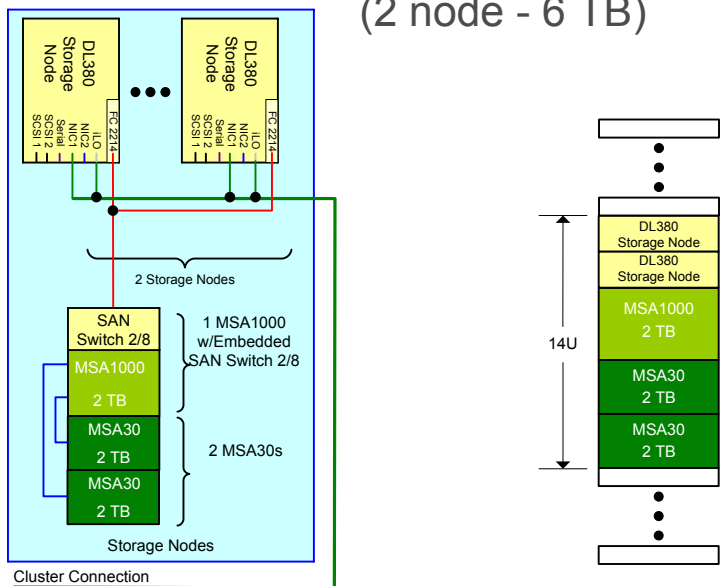
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| 31 | Empty |
| 30 | Empty |
| 29 | ProCurve 2824 |
| 28 | DL380 Storage Node |
| 27 | DL380 Storage Node |
| 26 | DL380 Storage Node |
| 25 | DL380 Storage Node |
| 24 | DL380 Storage Node |
| 23 | DL380 Storage Node |
| 22 | DL380 Storage Node |
| 21 | DL380 Storage Node |
| 20 | MSA1000 2 TB |
| 19 | MSA1000 2 TB |
| 18 | MSA1000 2 TB |
| 17 | MSA1000 2 TB |
| 16 | MSA30 2 TB |
| 15 | MSA30 2 TB |
| 14 | MSA30 2 TB |
| 13 | MSA30 2 TB |
| 12 | MSA30 2 TB |
| 11 | MSA30 2 TB |
| 10 | MSA1000 2 TB |
| 9 | MSA1000 2 TB |
| 8 | MSA1000 2 TB |
| 7 | MSA1000 2 TB |
| 6 | MSA30 2 TB |
| 5 | MSA30 2 TB |
| 4 | MSA30 2 TB |
| 3 | MSA30 2 TB |
| 2 | MSA30 2 TB |
| 1 | MSA30 2 TB |

Note: Please refer to the storage subsystem options table for adding processors, memory, disks, network adapters, rack and power, ...

| Part Numbers | Storage Subsystem Parts List | FC GFS 4 node - 12 TB |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| DL380G3 Storage Node | | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 4 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| 281541-B21 | FCA2214 (FC HBA) | 4 |
| 273914-B21 | SA 6404 (SCSI HBA) | |
| Storage Components | | Quantity |
| 302969-B21 | MSA30 SB w/1 12' VHDCI cable | 4 |
| 201724-B21 | MSA500 w/2 6' VHDCI cables & 128MB cache | |
| 201723-B22 | MSA1000 w/256MB cache, I/O module & 1 SFP | 2 |
| Management/Storage Interconnect | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | |
| J4903A#WWW | ProCurve 2824 - 10/100/1000-T Switch, 24 Ports, 1U | 1 |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | 1 |
| 288247-B21 | MSA1000 SAN Switch 2/8 (Ships with 4 SFPs) | 1 |
| 322118-B21 | SAN Switch 2/16 | |
| 240603-B21 | SAN Switch 2/32 | |
| 221470-B21 | 2 Gb SFP SW Transceiver | 2 |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | 1 |
| 221692-B21 | Fiber Cable, LC-LC, Optical, 2M | 3 |
| 221692-B22 | Fiber Cable, LC-LC, Optical, 5M | |
| 221692-B23 | Fiber Cable, LC-LC, Optical, 15M | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 8 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 4 |

| Part Number Key | | |
|-----------------|-----|-----|
| | WWW | XXX |
| US | ABA | 001 |
| EMEA | ABB | 421 |

LC 2000 Series Fibre Channel GFS (2 node - 6 TB)

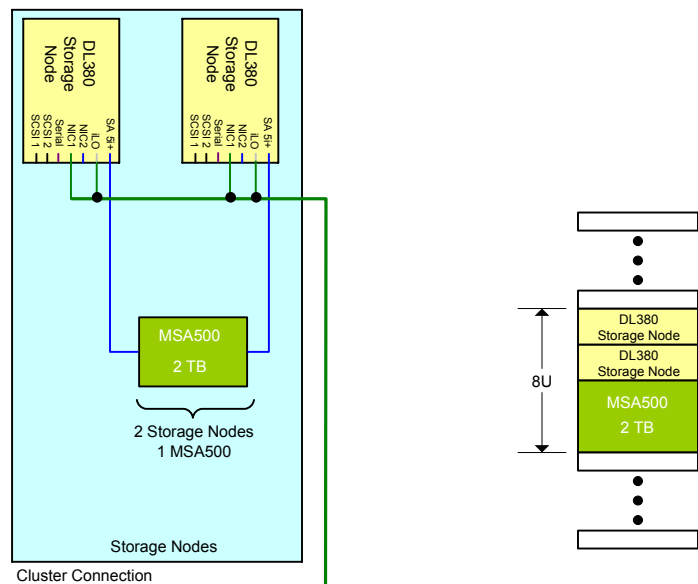


Note: Please refer to the storage subsystem options table for adding processors, memory, disks, network adapters, rack and power, ...

| Part Numbers | Storage Subsystem Parts List | FC GFS 2 Node - 6TB |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| DL380G3 Storage Node | | |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 2 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| 281541-B21 | FCA2214 (FC HBA) | |
| 273914-B21 | SA 6404 (SCSI HBA) | 2 |
| Storage Components | | |
| 302969-B21 | MSA30 SB w/1 12' VHDCI cable | 2 |
| 201724-B21 | MSA500 w/2 6' VHDCI cables & 128MB cache | 1 |
| 201723-B22 | MSA1000 w/256MB cache, I/O module & 1 SFP | |
| Management/Storage Interconnect | | |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 2 |
| J4903A#WWW | ProCurve 2824 - 10/100/1000-T Switch, 24 Ports, 1U | |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | |
| 288247-B21 | MSA1000 SAN Switch 2/8 (Ships with 4 SFPs) | |
| 322118-B21 | SAN Switch 2/16 | |
| 240603-B21 | SAN Switch 2/32 | |
| 221470-B21 | 2 Gb SFP SW Transceiver | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | |
| 221692-B21 | Fiber Cable, LC-LC, Optical, 2M | |
| 221692-B22 | Fiber Cable, LC-LC, Optical, 5M | |
| 221692-B23 | Fiber Cable, LC-LC, Optical, 15M | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 4 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | |
| | | |

| Part Number Key | | |
|-----------------|-----|-----|
| | WWW | XXX |
| US | ABA | 001 |
| EMEA | ABB | 421 |

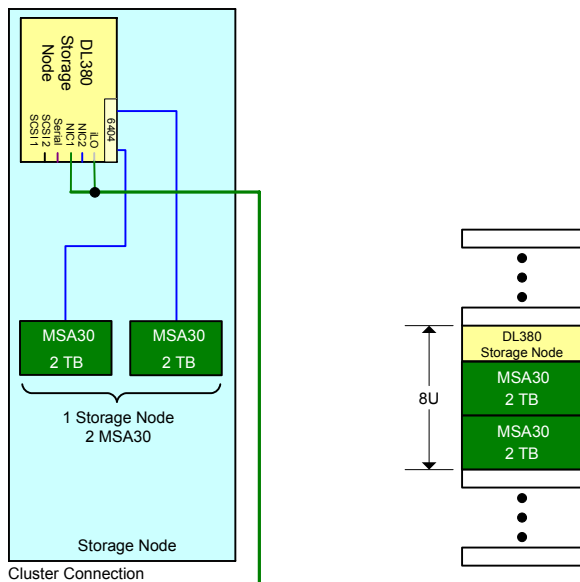
LC 2000 Series SCSI High Availability NFS 2TB



Note: Please refer to the storage subsystem options table for adding processors, memory, disks, network adapters, rack and power, ...

| Part Numbers | Storage Subsystem Parts List | SCSI HA NFS 2TB |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| DL380G3 Storage Node | | |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 2 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| 281541-B21 | FCA2214 (FC HBA) | |
| 273914-B21 | SA 6404 (SCSI HBA) | 2 |
| Storage Components | | |
| 302969-B21 | MSA30 SB w/1 12' VHDCI cable | 1 |
| 201724-B21 | MSA500 w/2 6' VHDCI cables & 128MB cache | |
| 201723-B22 | MSA1000 w/256MB cache, I/O module & 1 SFP | |
| Management/Storage Interconnect | | |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | 2 |
| J4903A#WWW | ProCurve 2824 - 10/100/1000-T Switch, 24 Ports, 1U | |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | |
| 288247-B21 | MSA1000 SAN Switch 2/8 (Ships with 4 SFPs) | |
| 322118-B21 | SAN Switch 2/16 | |
| 240603-B21 | SAN Switch 2/32 | |
| 221470-B21 | 2 Gb SFP SW Transceiver | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | |
| 221692-B21 | Fiber Cable, LC-LC, Optical, 2M | |
| 221692-B22 | Fiber Cable, LC-LC, Optical, 5M | |
| 221692-B23 | Fiber Cable, LC-LC, Optical, 15M | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 4 |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | |
| | | |

LC 2000 Series SCSI NFS 4TB

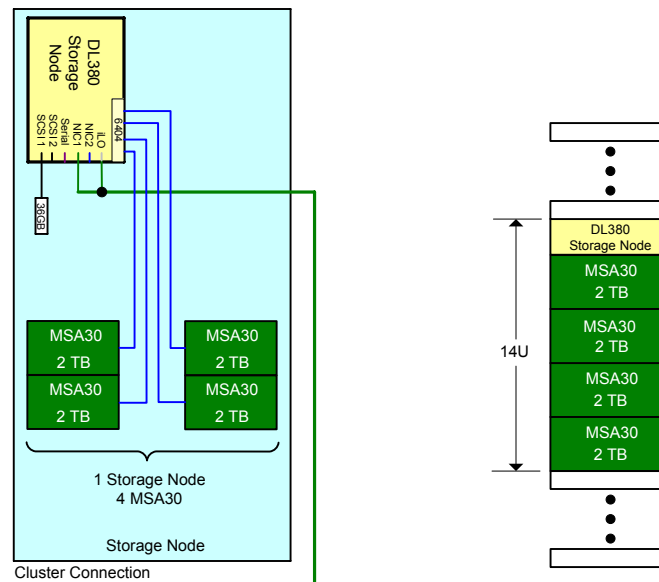


Note: Please refer to the storage subsystem options table for adding processors, memory, disks, network adapters, rack and power, ...

| Part Numbers | Storage Subsystem Parts List | SCSI NFS 4TB |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| DL380G3 Storage Node | | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| 281541-B21 | FCA2214 (FC HBA) | |
| 273914-B21 | SA 6404 (SCSI HBA) | 1 |
| Storage Components | | Quantity |
| 302969-B21 | MSA30 SB w/1 12' VHDCI cable | 2 |
| 201724-B21 | MSA500 w/2 6' VHDCI cables & 128MB cache | |
| 201723-B22 | MSA1000 w/256MB cache, I/O module & 1 SFP | |
| Management/Storage Interconnect | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | |
| J4903A#WWW | ProCurve 2824 - 10/100/1000-T Switch, 24 Ports, 1U | |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | |
| 288247-B21 | MSA1000 SAN Switch 2/8 (Ships with 4 SFPs) | |
| 322118-B21 | SAN Switch 2/16 | |
| 240603-B21 | SAN Switch 2/32 | |
| 221470-B21 | 2 Gb SFP SW Transceiver | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | |
| 221692-B21 | Fiber Cable, LC-LC, Optical, 2M | |
| 221692-B22 | Fiber Cable, LC-LC, Optical, 5M | |
| 221692-B23 | Fiber Cable, LC-LC, Optical, 15M | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 2 |

| Part Number Key | | |
|-----------------|-----|-----|
| | WWW | XXX |
| US | ABA | 001 |
| EMEA | ABB | 421 |

LC 2000 Series SCSI NFS 8TB



Note: Please refer to the storage subsystem options table for adding processors, memory, disks, network adapters, rack and power, ...

| Part Numbers | Storage Subsystem Parts List | SCSI NFS 8TB |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| DL380G3 Storage Node | | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | 1 |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | |
| 281541-B21 | FCA2214 (FC HBA) | |
| 273914-B21 | SA 6404 (SCSI HBA) | 1 |
| Storage Components | | Quantity |
| 302969-B21 | MSA30 SB w/1 12' VHDCI cable | 4 |
| 201724-B21 | MSA500 w/2 6' VHDCI cables & 128MB cache | |
| 201723-B22 | MSA1000 w/256MB cache, I/O module & 1 SFP | |
| Management/Storage Interconnect | | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | |
| J4903A#WWW | ProCurve 2824 - 10/100/1000-T Switch, 24 Ports, 1U | |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | |
| 288247-B21 | MSA1000 SAN Switch 2/8 (Ships with 4 SFPs) | |
| 322118-B21 | SAN Switch 2/16 | |
| 240603-B21 | SAN Switch 2/32 | |
| 221470-B21 | 2 Gb SFP SW Transceiver | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | |
| 221692-B21 | Fiber Cable, LC-LC, Optical, 2M | |
| 221692-B22 | Fiber Cable, LC-LC, Optical, 5M | |
| 221692-B23 | Fiber Cable, LC-LC, Optical, 15M | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack *** For US, divide Quantity by 8 and round up to the nearest integer. | 2 |

LC 2000 Series Storage Subsystem Options

Note: Please make multiple copies for future use.

| Part Numbers | Storage Subsystem Options | Order |
|--------------|---------------------------------------------------|-----------------|
| | DL380G3 | Quantity |
| 263825-B21 | iLO Advanced Pack ALL | |
| 293048-B21 | Fan Kit | |
| 333714-B21 | 1P-3.2GHz 1MB Cache 533MHz FSB Processor Option | |
| 333713-B21 | 1P-3.06GHz 1MB Cache 533MHz FSB Processor Option | |
| 257916-B21 | 1P-3.06GHz 512KB Cache 533MHz FSB Processor | |
| 257915-B21 | 1P-2.8GHz 512KB Cache 400MHz FSB Processor Option | |
| 300678-B21 | 512MB PC2100 Memory Kit (2X256MB) | |
| 300679-B21 | 1024MB PC2100 Memory Kit (2X512MB) | |
| 300680-B21 | 2048MB PC2100 Memory Kit (2X1024MB) | |
| 300682-B21 | 4096MB PC2100 Memory Kit (2X2048MB) | |
| 313054-B21 | Hot Plug Redundant Power Supply | |
| | Disk Drives | Quantity |
| 286713-B22 | 36.4 GB U320 10K | |
| 286714-B22 | 72.8 GB U320 10K | |
| 286716-B22 | 146.8 GB U320 10K | |
| 286775-B22 | 18.2 GB U320 15K | |
| 286776-B22 | 36.4 GB U320 15K | |
| 286778-B22 | 72.8 GB U320 15K | |
| | Storage Options | Quantity |
| 153506-B21 | 128MB Controller cache module | |
| 254786-B21 | 256 MB Controller cache module | |
| | Rack and Power Components | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | |
| 221546-YYY | TFT5600RKM | |
| 169989-001 | K/M/M Ext Cable US | |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | |
| 246099-B21 | Side Panel 42U, 10K Series All | |
| 246107-B21 | Stabilizer 600mm, 10K Series All | |
| 248929-B21 | Baying Kit, 10K Series All | |
| 253214-B21 | Blanking Panel, 10 Per Set, 1U, 10K Series All | |

| Part Number Key | | |
|-----------------|-----|-----|
| | YYY | ZZZ |
| US | 001 | D72 |
| EMEA | B31 | B31 |

LC 2000 Series Myrinet DL360 Cluster Upgrade Worksheet

Note: Please make copies for future use.

| Part Numbers | LC 2000 Series Parts List | | Current Configuration | New Configuration | Parts Needed (New Config - Current Config) |
|-----------------------------------------|---------------------------------------------------------------------------------|--|-----------------------|-------------------|-----------------------------------------------|
| | Myrinet Upgrade | | | | |
| DL380G3 Control Node | | | Quantity | Quantity | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | | | | |
| DL360G3 Compute Nodes | | | Quantity | Quantity | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 257894-006 | Myrinet Fiber PCI-X Single Port Adapter Card - M3F-PCIXD-2 | | | | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | | | | |
| IB / OOB Management Interconnect | | | Quantity | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | | | | |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | | | | |
| Compute Interconnect | | | Quantity | Quantity | Quantity |
| 257896-002 | Myrinet 5-Slot Switch Frame, 3U, Max Support 32 Ports - M3-E32 | | | | |
| 257896-003 | Myrinet 9-Slot Switch Frame, 5U, Max Support 64 Ports - M3-E64 | | | | |
| 257896-004 | Myrinet 17-Slot Switch Frame, 9U, Max Support 128 Ports - M3-E128 | | | | |
| 257895-001 | Myrinet 8-Port Fiber Switch Card With XBar - M3-SW16-8F | | | | |
| 262818-001 | Myrinet SNMP Monitoring Line Card, Dual Port - M3-M | | | | |
| 337807-001 | Myrinet Front Blanking Panel - M3-BLANK | | | | |
| 360363-B21 | Myrinet Switch Rail Kit | | | | |
| Common Interconnect Parts | | | Quantity | Quantity | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | | | | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | | | | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack | | | | |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack | | | | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack | | | | |
| 221692-B22 | Fiber Cable, LC-LC, OPTICAL, 5M | | | | |
| 221692-B23 | Fiber Cable, LC-LC, OPTICAL, 15M | | | | |
| Rack and Power Components | | | Quantity | Quantity | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | | | | |
| 221546-YYY | TFT5600RKM | | | | |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | | | | |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | | | | |
| 246099-B21 | Side Panel 42U, 10K Series All | | | | |
| 246107-B21 | Stabilizer 600mm, 10K Series All | | | | |
| 248929-B21 | Baying Kit, 10K Series All | | | | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All | | | | |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

LC 2000 Series GigE DL360 Cluster Upgrade Worksheet

Note: Please make copies for future use.

| Part Numbers | LC 2000 Series Parts List GigE Upgrade | Current | New | Parts Needed |
|-----------------------------------------|---------------------------------------------------------------------------------|-----------------|-----------------|-------------------------------|
| | | Configuration | Configuration | (New Config - Current Config) |
| DL380G3 Control Node | | Quantity | Quantity | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | | | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | | | |
| DL360G3 Compute Nodes | | Quantity | Quantity | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | | | |
| IB / OOB Management Interconnect | | Quantity | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | | | |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | | | |
| Compute Interconnect | | Quantity | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | | | |
| 257896-003 | Myrinet 9-Slot Switch Frame, 5U, Max Support 64 Ports - M3-E64 | | | |
| 257896-004 | Myrinet 17-Slot Switch Frame, 9U, Max Support 128 Ports - M3-E128 | | | |
| 356921-B21 | Myrinet 8-Port GigE Switch Card With XBar - M3-SW16-8E | | | |
| 262818-001 | Myrinet SNMP Monitoring Line Card, Dual Port - M3-M | | | |
| 337807-001 | Myrinet Front Blanking Panel - M3-BLANK | | | |
| 360363-B21 | Myrinet Switch Rail Kit | | | |
| Common Interconnect Parts | | Quantity | Quantity | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | | | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | | | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack | | | |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack | | | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack | | | |
| Rack and Power Components | | Quantity | Quantity | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | | | |
| 221546-YYY | TFT5600RKM | | | |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | | | |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | | | |
| 246099-B21 | Side Panel 42U, 10K Series All | | | |
| 246107-B21 | Stabilizer 600mm, 10K Series All | | | |
| 248929-B21 | Baying Kit, 10K Series All | | | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All | | | |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |

LC 2000 Series Fast Ethernet DL360 Cluster Upgrade Worksheet

Note: Please make copies for future use.

| Part Numbers | LC 2000 Series Parts List | | Current Configuration | New Configuration | Parts Needed (New Config - Current Config) |
|-----------------------------------------|---------------------------------------------------------------------------------|--|-----------------------|-------------------|-----------------------------------------------|
| | Fast Ethernet Upgrade | | | | |
| DL380G3 Control Node | | | Quantity | Quantity | Quantity |
| 333705-XXX | DL380G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 333704-XXX | DL380G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 310587-XXX | DL380G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 349201-XXX | DL380G3 1P-2.8GHz 512KB Cache 400MHz FSB, 2X512MB RAM | | | | |
| DL360G3 Compute Nodes | | | Quantity | Quantity | Quantity |
| 345101-XXX | DL360G3 1P-3.2GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 353829-XXX | DL360G3 1P-3.2GHz 2MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 337054-XXX | DL360G3 1P-3.06GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 322470-XXX | DL360G3 1P-3.06GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | | |
| 292889-XXX | DL360G3 1P-2.8GHz 512KB Cache 533MHz FSB, 2X256MB RAM | | | | |
| 359383-XXX | DL360G3 1P-2.8GHz 1MB Cache 533MHz FSB, 2X512MB RAM | | | | |
| 142257-B28 | Power Cord, SPT-2, IEC-C13 IEC-C14, 20 inches | | | | |
| IB / OOB Management Interconnect | | | Quantity | Quantity | Quantity |
| J4904A#WWW | ProCurve 2848 - 10/100/1000-T Switch, 48 Ports, 1U | | | | |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | | | | |
| Compute Interconnect | | | Quantity | Quantity | Quantity |
| J4899A#WWW | ProCurve 2650 - 10/100-T Switch, 50 Ports, 1U | | | | |
| J4848A#WWW | Procurve 5372xl - 10/100-TX Switch, 8 Slot Modules, 5U, 3 Slots Filled | | | | |
| J4820A | Procurve Switch XL 10/100-TX Switch Module, 24 Ports Per Module | | | | |
| Common Interconnect Parts | | | Quantity | Quantity | Quantity |
| 356578-B21 | 1U Switch Rail Kit, 10K Series Rack Mount | | | | |
| 142257-006 | Power Cord, IEC-C13 IEC-C14, 4.5FT | | | | |
| BN26M-03 or 263474-B22 | Shielded CAT 5E Cable (EMEA), 3M, 1 Per or CAT 5E Cable (US), 6 FT, 8 Per Pack | | | | |
| BN26M-04 or 263474-B23 | Shielded CAT 5E Cable (EMEA), 4M, 1 Per or CAT 5E Cable (US), 12 FT, 8 Per Pack | | | | |
| BN26M-07 or 263474-B24 | Shielded CAT 5E Cable (EMEA), 7M, 1 Per or CAT 5E Cable (US), 20 FT, 4 Per Pack | | | | |
| Rack and Power Components | | | Quantity | Quantity | Quantity |
| 245161-B22 | Rack 10642 (42U) Shock Pallet | | | | |
| 221546-YYY | TFT5600RKM | | | | |
| 169989-001 | Keyboard/Mouse/Monitor Extension Cable, US | | | | |
| 252663-ZZZ | Modular PDU, 24A (US) or 32A (EMEA), High Voltage | | | | |
| 246099-B21 | Side Panel 42U, 10K Series All | | | | |
| 246107-B21 | Stabilizer 600mm, 10K Series All | | | | |
| 248929-B21 | Baying Kit, 10K Series All | | | | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All | | | | |
| 248929-B21 | Baying Kit, 10K Series All | | | | |
| 253214-B21 | Blanking Panels, 10 Per Set, 1U, 10K Series All | | | | |

| Part Number Key | | | | |
|-----------------|-----|-----|-----|-----|
| | WWW | XXX | YYY | ZZZ |
| US | ABA | 001 | 001 | D72 |
| EMEA | ABB | 421 | B31 | B31 |