

Compare Intel Xeon E5-4600 4-socket 2U x86 rack servers

GE-link to this document: <http://www.goldeneggs.fi/documents/GE-COMP-E54600-A.pdf>

2U

Dell

IBM

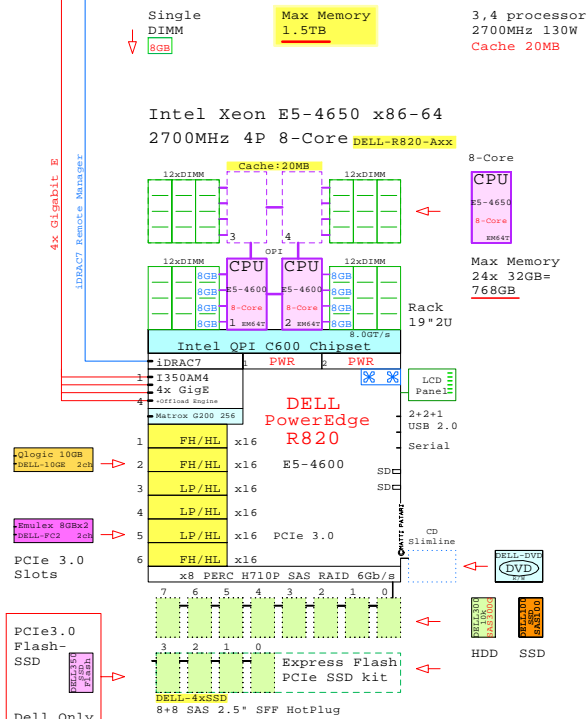
Fujitsu

Acer

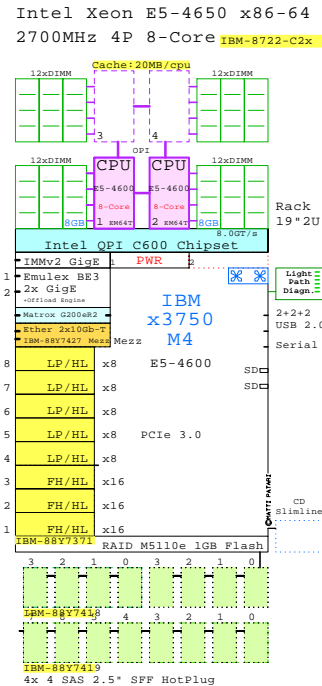
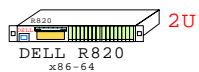
HP

Intel Xeon x86-64

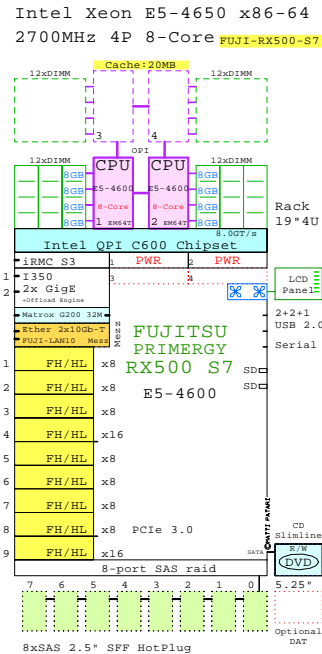
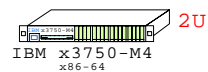
Sandy Bridge-EP
2700MHz Eight-Core



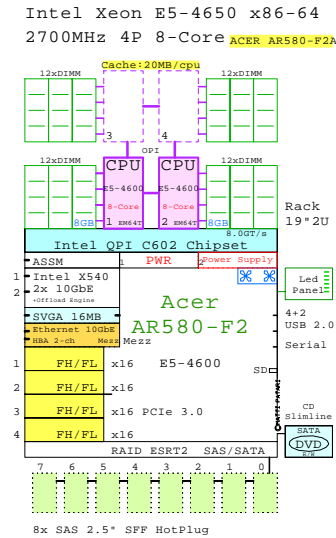
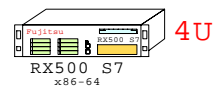
<http://www.goldeneggs.fi/documents/GE-DELL-R820-A.pdf>



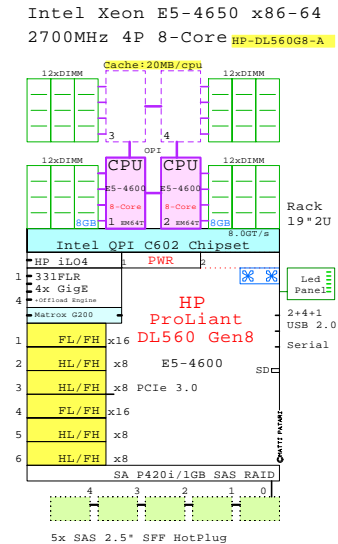
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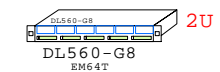
<http://www.goldeneggs.fi/documents/GE-FUJI-RX500S7-A.pdf>



<http://www.goldeneggs.fi/documents/GE-ACER-AR580F2-A.pdf>



<http://www.goldeneggs.fi/documents/GE-HP-DL560G8-A.pdf>



GE-links to x86 COMPARE Pictures:

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<http://www.goldeneggs.fi/documents/GE-COMPARE-4P-4U-A.pdf>
<http://www.goldeneggs.fi/documents/GE-COMPARE-8P-8U-A.pdf>
<http://www.goldeneggs.fi/documents/GE-COMPARE-TOWER-A.pdf>

<http://www.goldeneggs.fi/documents/GE-COMP-E52400-A.pdf>
<http://www.goldeneggs.fi/documents/GE-COMP-E52600-A.pdf>
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Tip for detail printing:
- Zoom in area of interest
- Print, Print Current View

Compare Intel Xeon E5-4600 4P/2U rack servers

2U 15-Aug-2012

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<http://www.goldeneggs.fi>

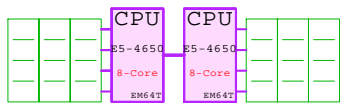
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GOLDEN EGGS Visuals™ Helsinki	15-Aug-2012	GE-COMP-E54600-A2
Matti.Patari@Kolumbus.fi		

Compare Rack 4P/2U E5-4600 2700MHz
GOLDEN EGGS Visuals, Helsinki

DELL R820
Xeon E5-4650

Internal Options:



3-4 Eight-Core
E5-4650 20MB
2700MHz 130W

8GB DELL-8GB-1

DDR3-1333
1x DIMMs each

16GB DELL-16GB-1

32GB DELL-32GB-1

DELL-300GB
300GB 10k SAS 2.5"

DELL-600GB
600GB 10k SAS 2.5"

DELL-900GB
900GB 10k SAS 2.5"

DELL-100GB
100GB SSD SAS 2.5"

DELL-350GB
350GB Flash SSD 2.5"

DELL-DVD
SATA CD-RW/DVD

DELL-H710P
PERC SAS Raid

DELL-1GbE
Dell GigabitE 2ch

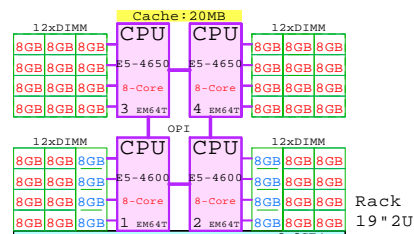
DELL-10GE
Qlogic 10Gb CNA 2ch

DELL-FC2
Emulex FC 8Gb 2ch

Tip for detail printing:
- Zoom in area of interest
- Print, Print CurrentView

Example Configuration
x86-64

Intel Xeon E5-4650 x86-64
2700MHz 4P 8-Core **DELL-R820-Axx**



Intel OPI C600 Chipset
iDRAC7
I350AM4
4x Gige
offload Engine

DELL PowerEdge
R820

Matrix G200 256
Qlogic 10GB
DELL-10GE 2ch
Emulex 8GbX2
DELL-FC2 2ch

Emulex 8GbX2
DELL-FC2 2ch
PCIE 3.0

x8 PERC H710P SAS RAID 6Gb/s

Express Flash
PCIe SSD kit

DELL-4xSSD
8+8 SAS 2.5" SFF HotPlug

2x 8Gb Fibre Channel to
external storage

Parts list for the 4P Eight-Core 384GB Dell R820

Part Number	Qty	Description
DELL-100GB	3	Dell 100GB SATA SSD hot-plug disk 2.5"
DELL-10GE	1	DELL Qlogic 10Gb CNA 2-ch adapter
DELL-350GB	4	Dell 350GB PCIe Flash SSD 2.5" hot-plug
DELL-4xSSD	1	DELL R720 +4SSD Express Flash SSD kit
DELL-8GB-1	40	DELL 8GB PE Memory 1x8GB DIMM
DELL-900GB	5	DELL 900GB SAS 10000r hot-plug disk 2.5"
DELL-DVD	1	DELL CD-RW/DVD-ROM Option kit, slimline
DELL-E54650	1	DELL 2x Xeon E5-4650 8-Core 2.7GHz 20MB
DELL-FC2	2	DELL Emulex FC 8Gb 2-ch PCIe HBA
DELL-R820-A	1	DELL R820 4P 8-C E5-4650-20MB 64GB 2U

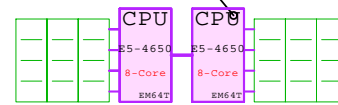
DELL PE R820 Intel E5-4650 4P/2U

E5-4600
2700MHz Eight-Core

Max Memory
48x 32GB=
1.5TB

Intel Xeon E5-4650 x86-64
2700MHz 4P 8-Core **DELL-R820-Axx**

DELL-E54650
3-4 processor
2700MHz 130W
Cache 20MB



Eight-Core

iDRAC7 RJ-45 10/100
4x RJ-45 10/100/1000

Matrox G200 256MB

6x PCIe 3.0 slots

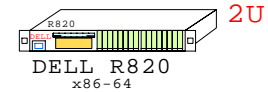
Flash-SSD

Express Flash
PCIe SSD kit

DELL-4xSSD

DELL-8xSAS
HDD assembly

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MS Windows Server 2008
LINUX: Red Hat, SuSE
VMware Virtualization Software

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DELL PE R820 4P/2U E5-4650 2700MH
GOLDEN EGGS Visuals, Helsinki

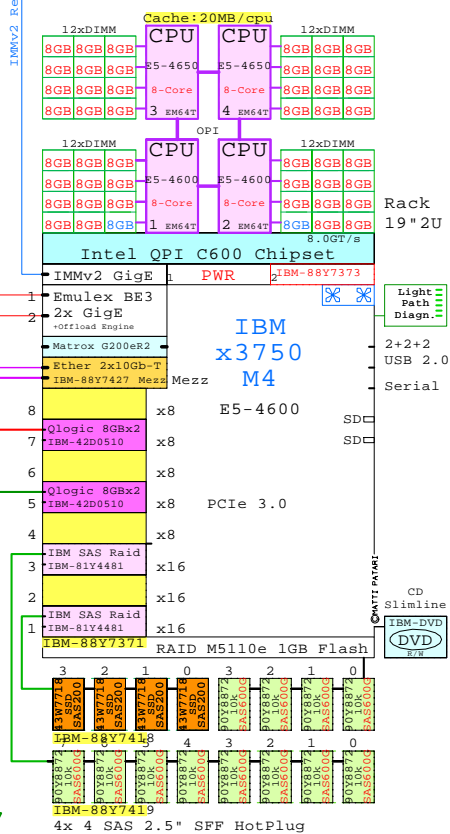
IBM x3750 M4
Xeon E5-4650

Internal Options:

- IBM-88Y7324
CPU
E5-4650
8-Core
EM64T
3,4 Eight-Core
E5-4650 20MB
2700MHz 130W
- IBM-49Y1397
8GB
DDR3-1333
1x DIMMs each
- IBM-49Y1563
16GB
- IBM-90Y3105
32GB
- IBM-88Y7373
2nd Power 1400W
- IBM-81Y9670
300GB 10k SAS 2.5"
- IBM-90Y8872
600GB 10k SAS 2.5"
- IBM-81Y9650
900GB 10k SAS 2.5"
- IBM-43W7718
200GB SSD SAS 2.5"
- IBM-46M0902
SATA CD-RW/DVD
- IBM-81Y4481
SAS RAID M5110
- IBM-49Y4230
Ethernet 2ch
- IBM-88Y7427
Emulex 2x 10GbE Mezzanine
- IBM-42D0510
Qlogic FC 8Gb 2-ch HBA

Example Configuration
x86-64

Intel Xeon E5-4650 x86-64
2700MHz 4P 8-Core **IBM-8722-C2x**

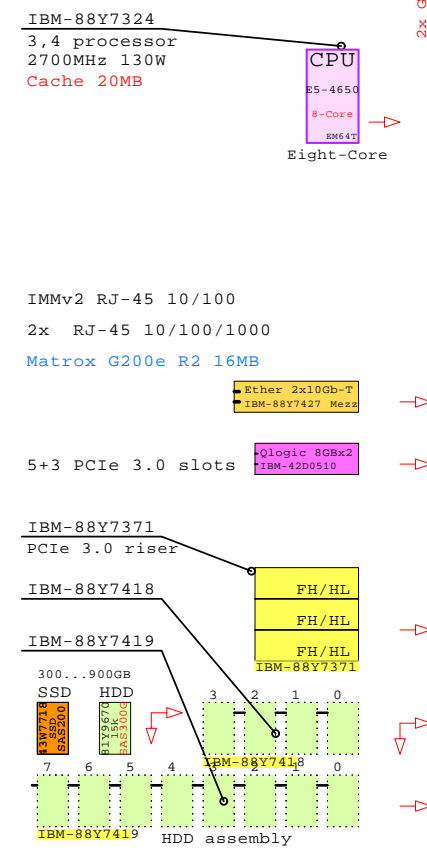
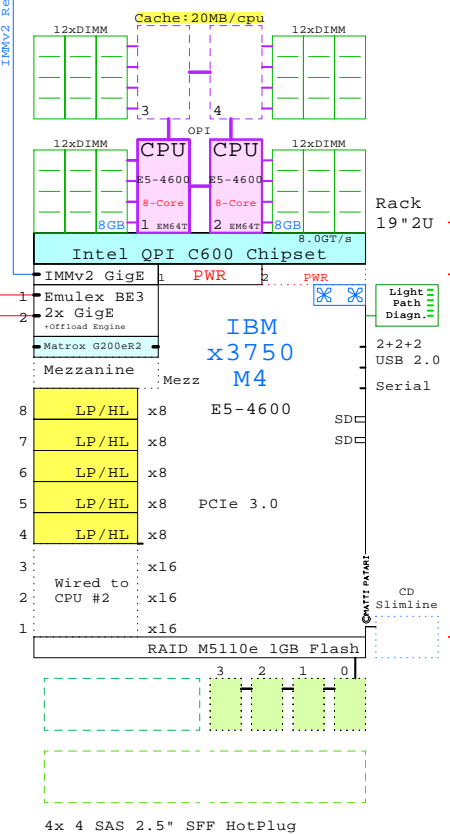


2x 10-Gigabit E
2x Gigabit E
IBMv2 Remote Manager
IBMv2 GigE
EMulex BE3
2x GigE
Matrix G200eR2
Ether 2x10Gb-T
IBM-88Y7427 Mezz
Mezz
8.0GT/s
IBM-88Y7373
PWR
Light Path Diagn.
2+2+2
USB 2.0
Serial
CD Slimline
IBM-DVD
S/W
2x 8Gb Fibre Channel External

E5-4600
2700MHz Eight-Core

Max Memory
48x 32GB=
1.5TB

Intel Xeon E5-4650 x86-64
2700MHz 4P 8-Core **IBM-8722-C2x**



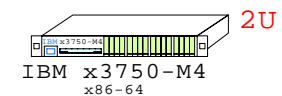
2x Gigabit E
IBMv2 Remote Manager
IBMv2 GigE
EMulex BE3
2x GigE
Matrix G200eR2
Ether 2x10Gb-T
IBM-88Y7427 Mezz
Mezz
8.0GT/s
IBM-88Y7373
PWR
Light Path Diagn.
2+2+2
USB 2.0
Serial
CD Slimline
IBM-DVD
S/W
4x 4 SAS 2.5" SFF HotPlug

Parts list for the 4P Eight-Core 384GB IBM x3750 M4

Part Number	Qty	Description
IB-8722-C2X	1	IBM x3750 4P 8-C E5-4650-20MB 64GB 2U
IBM-42D0510	2	IBM Qlogic FC 8Gb 2-ch PCIe HBA
IBM-43W7718	4	IBM 200GB SAS SSD hot-plug disk 2.5"
IBM-46M0902	1	IBM CD-RW/DVD-ROM Option kit, slimline
IBM-49Y1397	46	IBM 8GB DDR3-1333 LP RDIMM 1x8GB
IBM-81Y4481	2	IBM Server RAID M5110 SAS/SATA Controller
IBM-88Y7324	2	IBM Xeon E5-4650 8-Core 2.7GHz 20MB Proc
IBM-88Y7371	1	IBM x3750-M4 PCIe 3.0 3x x16 Riser Card
IBM-88Y7373	1	IBM x3750-M4 1400W second power supply
IBM-88Y7418	1	IBM x3750-M4 SAS +4HDD Disk Backplane
IBM-88Y7419	1	IBM x3750-M4 SAS +8HDD Disk Backplane
IBM-88Y7427	1	IBM x3750-M4 Ethernet 2x 10GbE Mezz
IBM-90Y8872	12	IBM 600GB SAS 10k 6Gbps hotP 2.5" disk

Tip for detail printing:
- Zoom in area of interest
- Print, Print CurrentView

IBM x3750 M4 Intel E5-4650 4P/2U



MS Windows Server 2008
LINUX: Red Hat, SuSE
VMware Virtualization Software

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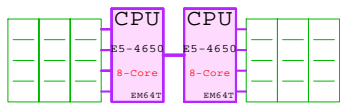
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	Matti.Patari@Kolumbus.fi	

IBM x3750 M4 4P/2U E5-4650 2700MH
GOLDEN EGGS Visuals, Helsinki

FUJITSU RX500 S7
Xeon E5-4650

Internal Options:

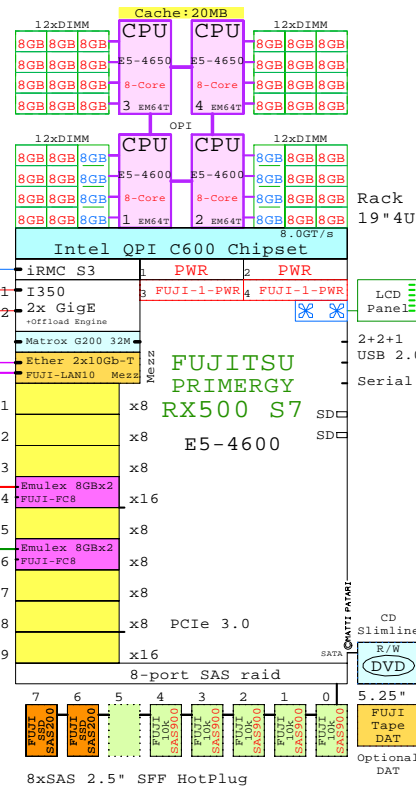


3-4 Eight-Core
E5-4650 20MB
2700MHz 130W

- 8GB FUJI-1X8GB
- DDR3-1333 1x DIMMs each
- 16GB FUJI-1X16G
- 32GB FUJI-1X32G
- FUJI-1-PWR 3-4 Power 800W
- FUJI-300GB 300GB 15k SAS 2.5"
- FUJI-600GB 600GB 10k SAS 2.5"
- FUJI-900GB 900GB 10k SAS 2.5"
- FUJI-200GB 200GB SSD SAS 2.5"
- FUJI-DAT DAT USB Tape
- FUJI-RAID Fujitsu SAS RAID
- FUJI-1GE Fujitsu GigabitE 4ch
- FUJI-LAN10 LAN adapter 10Gb 2ch
- FUJI-FC8 Emulex FC 8Gb 2ch

Example Configuration
x86-64

Intel Xeon E5-4650 x86-64
2700MHz 4P 8-Core FUJI-RX500-S7



2x 8Gb Fibre Channel to external storage

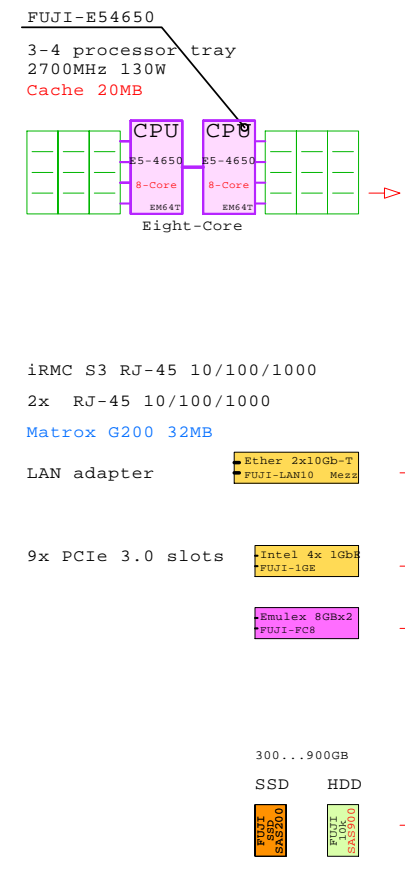
Parts list for the 4P Eight-Core 384GB Fujitsu RX500 S7

Part Number	Qty	Description
FUJI-1-PWR	2	FUJI RXxxx Power Supply
FUJI-1X8GB	40	Fuji 1x8GB Memory RX300 S7
FUJI-200GB	2	FUJI 200GB SSD SAS HotPlug SSD 2.5"
FUJI-900GB	5	FUJI 900GB HDA 10K SAS HotPlug 2.5" disk
FUJI-DAT	1	Fujitsu SATA DAT Tape Drive
FUJI-E54650	1	FUJI 2x Xeon E5-4650 8-Core 2.7GHz 20MB
FUJI-FC8	2	FUJI Emulex FC 8Gb 2-ch PCIe HBA
FUJI-LAN10	1	FUJI RX500 Ethernet 2x 10GbE Mezz LAN
FUJI-RX500S	1	Fuji RX500 S7 4P 8-C E5-4650-20MB 64GB 4

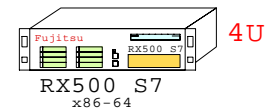
E5-4600
2700MHz Eight-Core

Max Memory
48x 32GB=
1.5TB

Intel Xeon E5-4650 x86-64
2700MHz 4P 8-Core FUJI-RX500-S7



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MS Windows Server 2008
LINUX: Red Hat, SuSE
VMware Virtualization Software

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FUJITSU RX500 S7 4P E5-4650 2.GH
GOLDEN EGGS Visuals, Helsinki

Tip for detail printing:
- Zoom in area of interest
- Print, Print CurrentView

FUJITSU RX500 S7 Intel E5-4650 4P/4U

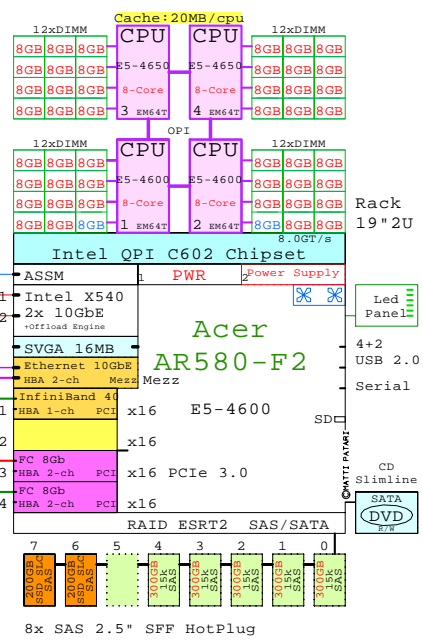
Acer AR580-F2
Xeon E5-4650

Internal Options:

- CPU** INT-E5-4650
E5-4650
8-Core
EM64T
3,4 Eight-Core
E5-4650 20MB
2700MHz 130W
- MEM-8GB**
DDR3-1333
1x DIMMs each
- MEM-16GB**
- MEM-32GB**
- POWER-2**
2nd Power 1600W
- HDD-300GB**
300GB 15k SAS
- HDD-600GB**
600GB 10k SAS
- HDD-900GB**
900GB 10k SAS
- SSD-200GB**
200GB SSD SAS 2.5"
- DVD-SATA**
SATA CD-RW/DVD
- PCI-RAID**
SAS RAID PCIe
- PCI-1GbE**
Ethernet 2ch
- MEZ-10GbE**
Ethernet 2x 10GbE Mezzanine
- PCI-FC8**
FibreChannel 8Gb 2-ch
- PCI-INF40**
InfiniBand 1-ch 40Gbs

Example Configuration
x86-64

Intel Xeon E5-4650 x86-64
2700MHz 4P 8-Core **ACER AR580-F2A**

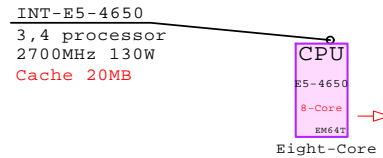


2x 8Gb Fibre Channel External

E5-4600
2700MHz Eight-Core

Max Memory
48x 32GB=
1.5TB

Intel Xeon E5-4650 x86-64
2700MHz 4P 8-Core **ACER AR580-F2A**



ASSM RJ-45 10/100
2x RJ-45 10GbE

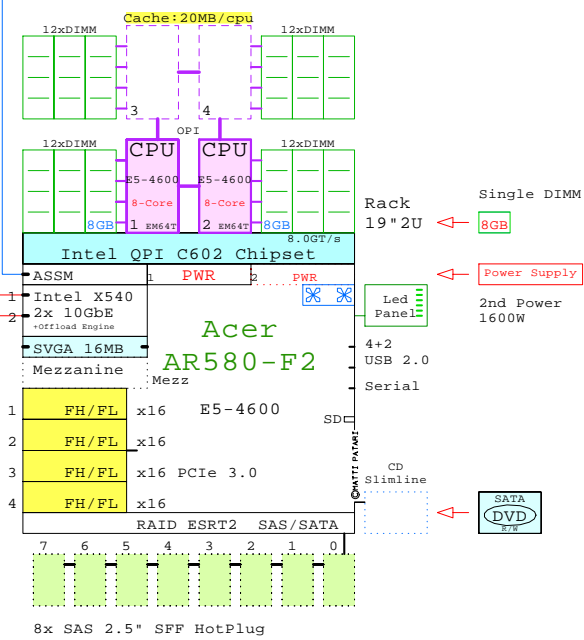
SVGA16MB
10GbE Adapter, Mezzanine

4x PCIe 3.0 slots

Ethernet 10GbE
HBA 2-ch Mezz

FC 16Gb
HBA 2-ch PCI

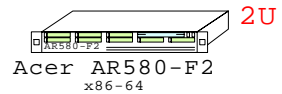
SSD HDD
200...900GB



GE-link to this document: <http://www.goldeneggs.fi/documents/GE-ACER-AR580F2-A.pdf>

Parts list for the 4P Eight-Core 384GB Acer AR580-F2

Part Number	Qty	Description
ACE-AR580F2	1	Acer AR580-F2 4P 8-C E5-4650-20MB 16GB 2
DVD-SATA	1	DVD SATA Slimline
HDD-300GB	5	Disk HDD 300GB 2.5" SAS 15k hot-plug
INT-E5-4650	2	Intel Xeon E5-4650 8-Core 2.7GHz 20MB Pr
MEM-8GB	46	Memory 1x 8GB DIMM
MEZ-10GbE	1	Ethernet 2x 10GbE Mezzanine
PCI-FC8	2	Fibre Channel 8Gb 2-ch PCI HBA
PCI-INF40	1	InfiniBand 1x 40Gb PCI HBA
POWER-2	1	Additional power supply hot-plug
SSD-200GB	2	Disk SSD 200GB 2.5" SAS SLC hot-plug



MS Windows Server 2008
LINUX: Red Hat, SuSE
VMware Virtualization Software

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Acer AR580-F2 4P/2U E5-4650 2700M
GOLDEN EGGS Visuals, Helsinki

Tip for detail printing:
- Zoom in area of interest
- Print, Print CurrentView

Acer AR580-F2 Intel E5-4650 4P/2U

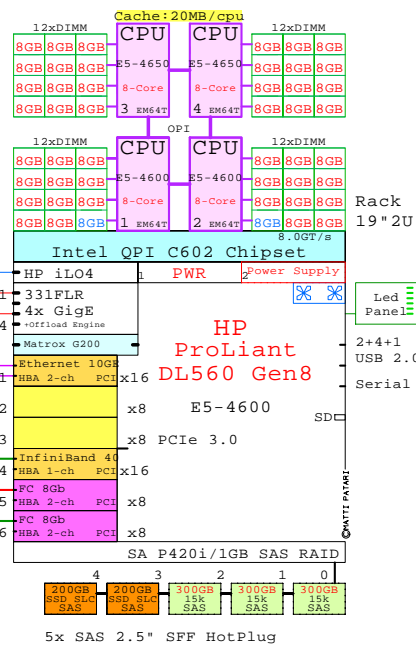
HP DL560 Gen8
Xeon E5-4650

Internal Options:

- CPU** - INT-E5-4650
E5-4650
8-Core
EM64T
3,4 Eight-Core
E5-4650 20MB
2700MHz 130W
- MEM-8GB**
DDR3-1333
1x DIMMs each
- MEM-16GB**
- MEM-32GB**
- POWER-2**
2nd Power 1200W
- HDD-300GB**
300GB 15k SAS
- HDD-600GB**
600GB 10k SAS
- HDD-900GB**
900GB 10k SAS
- SSD-200GB**
200GB SSD SAS
- DVD-USB**
USB CD-RW/DVD External
- PCI-RAID**
SAS RAID PCIe
- PCI-1GbE**
Ethernet 2ch
- MEZ-10GbE**
Ethernet 2x 10GbE Mezzanine
- PCI-FC8**
FibreChannel 8Gb 2-ch
- PCI-INF40**
InfiniBand 1-ch 40Gbs

Example Configuration
x86-64

Intel Xeon E5-4650 x86-64
2700MHz 4P 8-Core **HP-DL560G8-A**

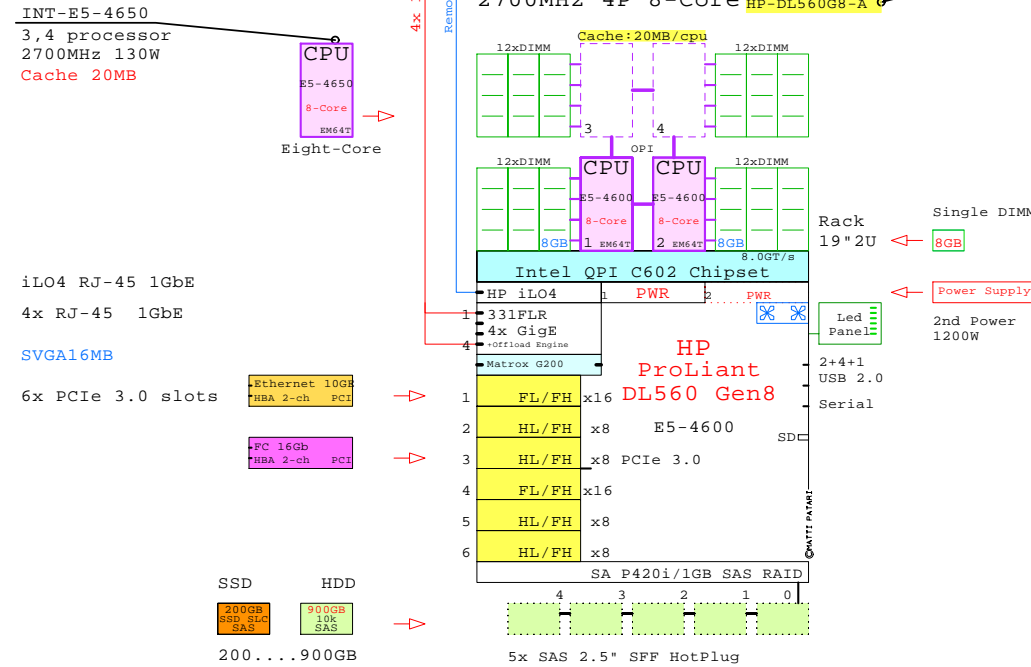


2x 8Gb Fibre Channel External

E5-4600
2700MHz Eight-Core

Max Memory
48x 32GB=
1.5TB

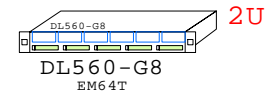
Intel Xeon E5-4650 x86-64
2700MHz 4P 8-Core **HP-DL560G8-A**



GE-link to this document: <http://www.goldeneggs.fi/documents/GE-HP-DL560G8-A.pdf>

Parts list for the 4P Eight-Core 384GB HP DL560 Gen8

Part Number	Qty	Description
HDD-300GB	3	Disk HDD 300GB 2.5" SAS 15k hot-plug
HP-DL560G8-	1	HP DL560g8 4P 8-C E5-4650-20MB 16GB 2U
INT-E5-4650	2	Intel Xeon E5-4650 8-Core 2.7GHz 20MB Pr
MEM-8GB	46	Memory 1x 8GB DIMM
PCI-10GbE	1	Ethernet 2x 10GbE PCI HBA
PCI-FC8	2	Fibre Channel 8Gb 2-ch PCI HBA
PCI-INF40	1	InfiniBand 1x 40Gb PCI HBA
POWER-2	1	Additional power supply hot-plug
SSD-200GB	2	Disk SSD 200GB 2.5" SAS SLC hot-plug



MS Windows Server 2008
LINUX: Red Hat, SuSE
VMware Virtualization Software

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		Matti.Patari@Kolumbus.fi

HP DL560 Gen8 4P/2U E5-4650 2700M
GOLDEN EGGS Visuals, Helsinki

Tip for detail printing:
- Zoom in area of interest
- Print, Print CurrentView

HP DL560 Gen8 Intel E5-4650 4P/2U

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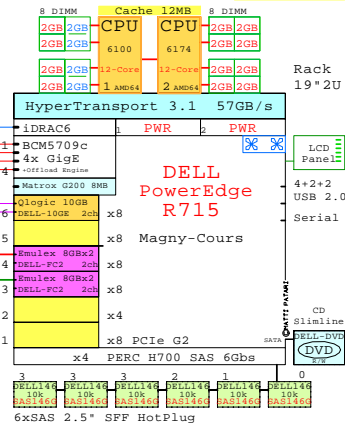
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A picture is worth of one thousand words.
It talks all Global languages.

x86-64 servers: **Dell IBM HP Fujitsu SUN Acer Lenovo and Cisco**

AMD Opteron 6174 x86-64

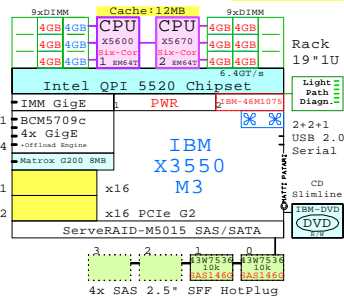
2200MHz 2P 12-Cor **DELL-R715-Axx**



2x 8Gb Fibre Channel to external storage

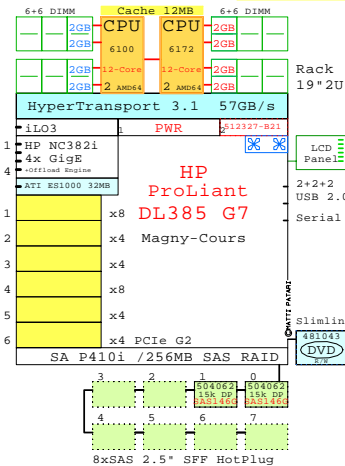
Intel Xeon X5670 x86-64

2930MHz 2P-Six-C **IBM-7944-M2x**



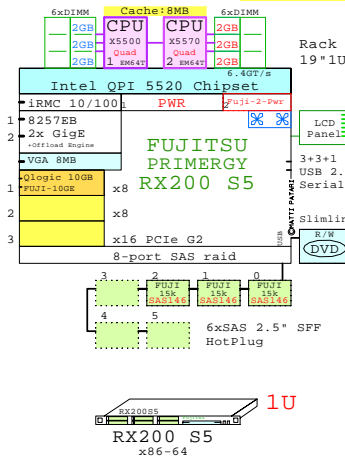
AMD Opteron 6172 x86-64

2100MHz 2P 12-Cor **573088-421 EU**



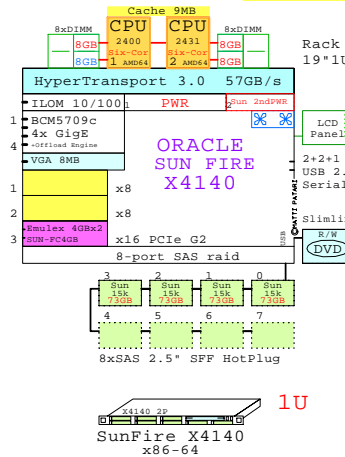
Intel Xeon X5570 x86-64

2930MHz 2P-Quad **FUJI-RX200S5A**



AMD Opteron 2431 x86-64

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