

# GOLDEN EGGS

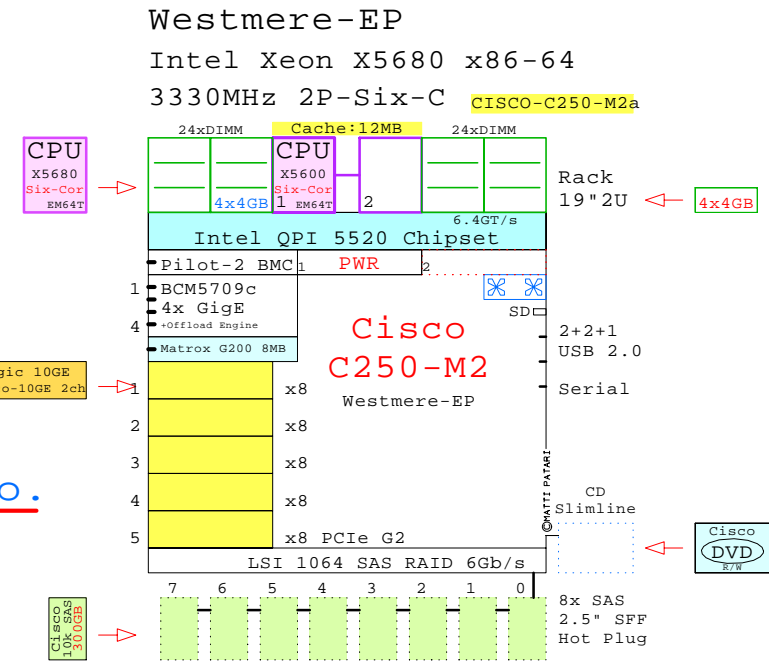
Visual Cook Book to Compare X86-64 Servers:  
 Dell, IBM, HP, Fujitsu, SUN, Cisco, Acer and Lenovo.

## X86 Compare Maps:

- 1 - Compare Diagram 2P 1U
- 2 - Compare Diagram 2P 2U
- 3 - Compare Diagram 4P 4U
- 4 - Compare Diagram 8P 8U
- 5 - Compare Diagram Tower 1-2P 5U

## X86 Family Maps:

- 6 - Dell Family
- 7 - IBM Family
- 8 - HP Family
- 9 - Fujitsu Family
- 10 - SUN Family
- 11 - Cisco Family
- 12 - Acer family
- 13 - Lenovo Family



This is a Compare collection for x86-64 servers. It is prepared for End-customers, Partners and Sales personnel.  
A picture talks all languages.

Created by:  
 Matti.Patari@Kolumbus.Fi Helsinki

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

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GE-COMPARE-BOOK-2011.pdf

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GOLDEN EGGS Visuals™ Helsinki	01-Jul-2011	GE-COMPARE-X86A
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Compare x86-64 Servers 1P 2P 4P 8P

Compare X86 Servers 1P 2P 4P 8P  
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# Compare Intel and AMD 2-socket 1U x86 rack servers

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1U

Tip for detail printing:  
- Zoom in area of interest  
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Dell

IBM

HP

Fujitsu

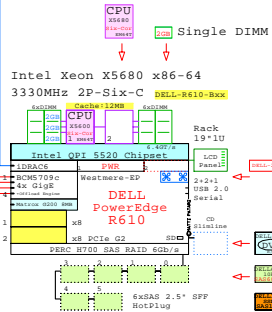
SUN

Acer

Cisco

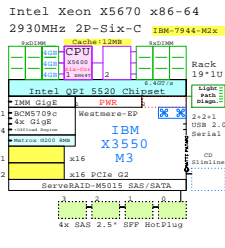
Lenovo

## Intel Xeon x86-64

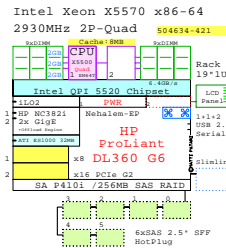
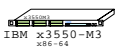


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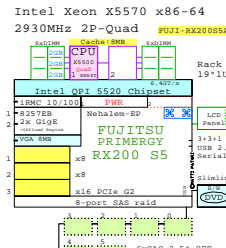
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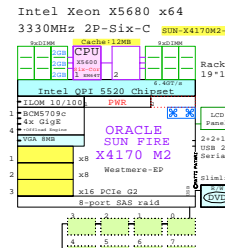
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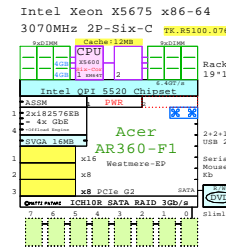
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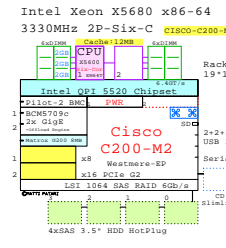
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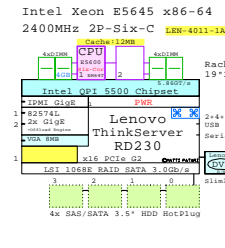
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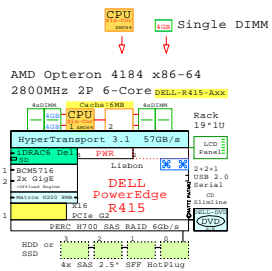


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## AMD Opteron x86-64

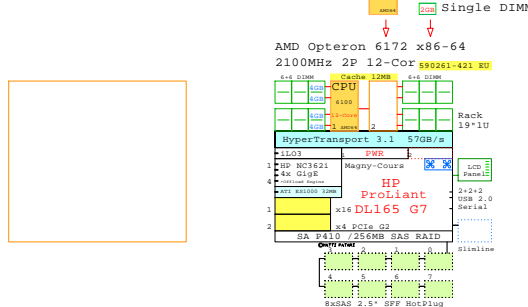
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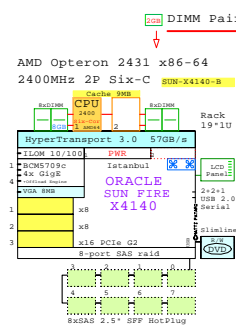
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### Opteron 6100



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- <http://www.goldeneggs.fi/documents/GE-FUJITSU-FAMILY-A.pdf>
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1U

Date: 22-May-2011

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Compare AMD/Intel 2P-1U systems		
GOLDEN EGGS Visuals, Helsinki		

# Compare AMD and Intel 2-socket 2U x86 rack servers

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2U

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Dell

IBM

HP

Fujitsu

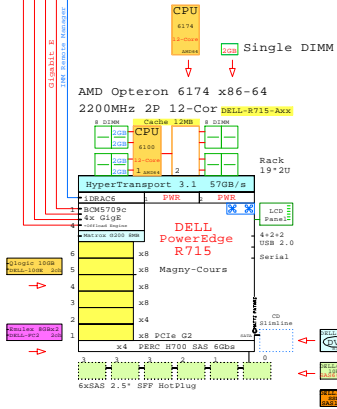
SUN

Acer

Cisco

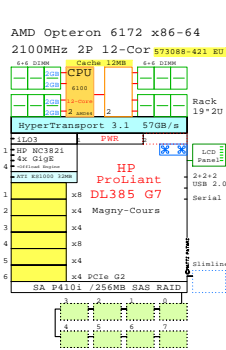
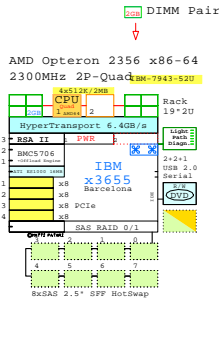
Lenovo

## AMD Opteron x86-64

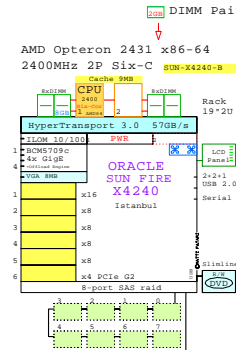
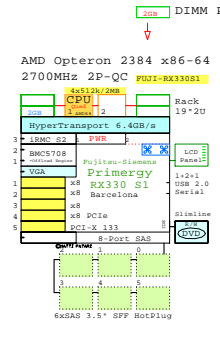


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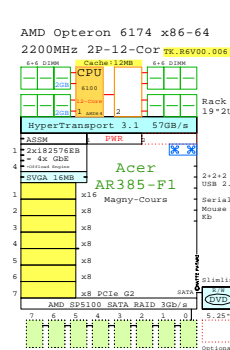
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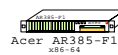
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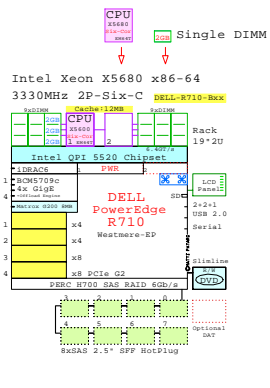
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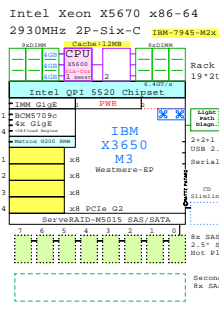
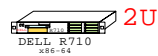
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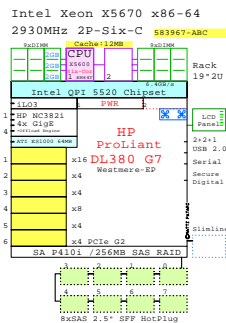
## Intel Xeon x86-64



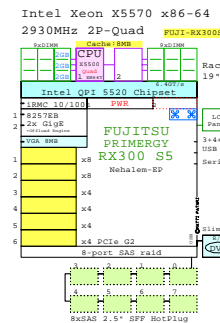
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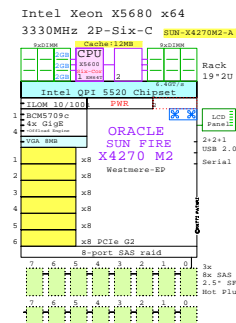
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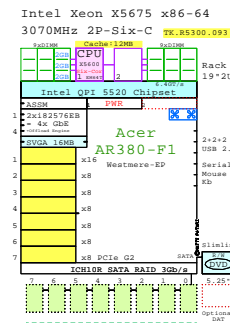
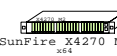
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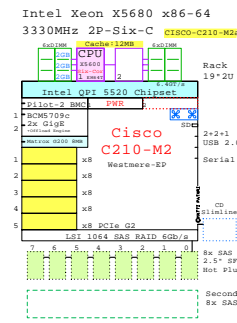
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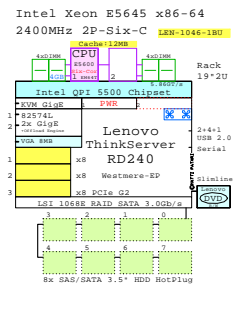
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2U

Date: 22-May-2011

# Compare AMD and Intel 2-socket 2U x86 rack servers

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Compare AMD/Intel 2-socket system  
GOLDEN EGGS Visuals, Helsinki

# Compare AMD and Intel 4-socket 4U/2U x86-64 rack servers 4P

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## Dell

## HP

## Cisco

AMD Opteron 6174 x86-64  
 2200MHz 4P 12-Cor  
 DELL-R815-AXX

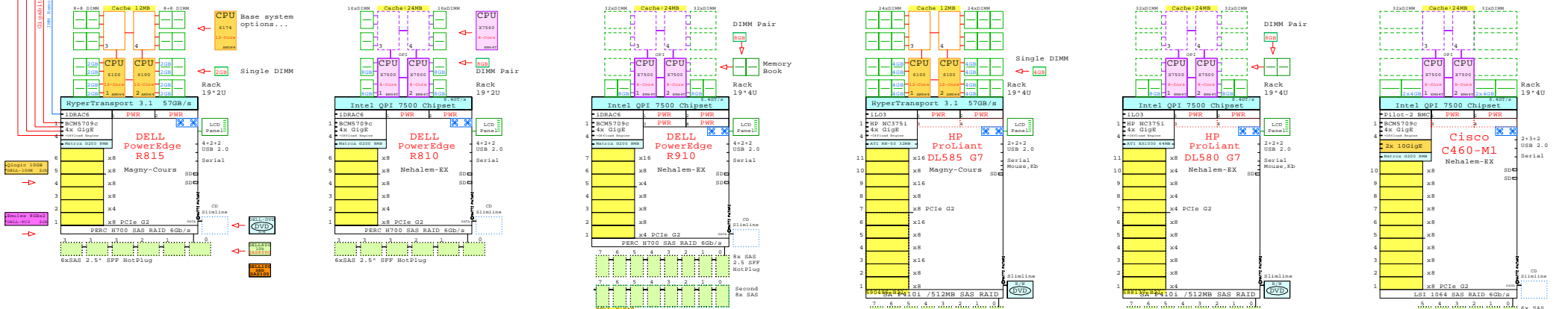
Intel Xeon X7560 x86-64  
 2260MHz 4P-8Core  
 DELL-R810-AXX

Intel Xeon X7560 x86-64  
 2260MHz 4P-8Core  
 DELL-R910-AXX

AMD Opteron 6168 x86-64  
 1900MHz 4P 12-Cor  
 HP-DL585-G7

Intel Xeon X7560 x86-64  
 2260MHz 4P-8Core  
 HP-DL580-G7

Intel Xeon X7560 x86-64  
 2260MHz 4P-8Core  
 CISCO-C460-M1



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<http://www.goldeneggs.fi/documents/GE-CISCO-C460-M1-A.pdf>



## IBM

## Fujitsu

## SUN

## Acer

AMD Opteron 8360SE x86-64  
 2500MHz 4P-Quad  
 IBM-7145-SRQ

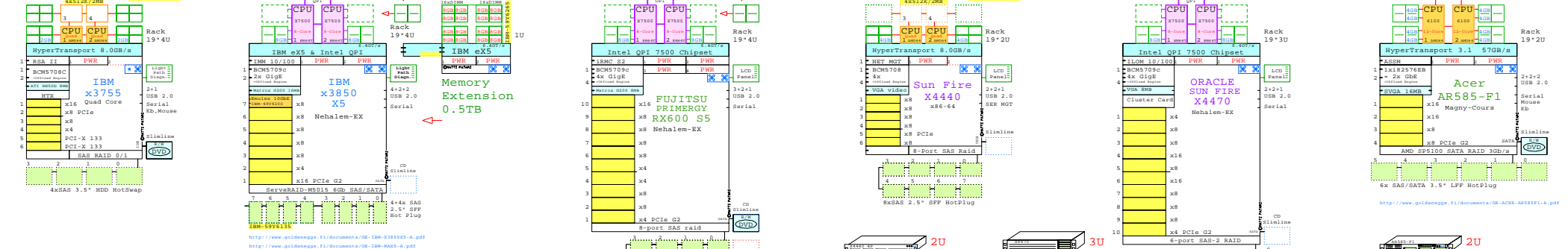
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 IBM-7145-SRQ

Intel Xeon X7560 x86-64  
 2260MHz 4P-8Core  
 FUJITSU-RX600-S5

AMD Opteron 8360SE x86-64  
 2500MHz 4P-QC  
 SUN-X4440-A

Intel Xeon X7560 x64  
 2260MHz 4P-8Core  
 SUN-X4470-A

AMD Opteron 6174 x86-64  
 2200MHz 4P-12-Cor  
 ACER-AR585-F1



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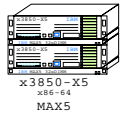
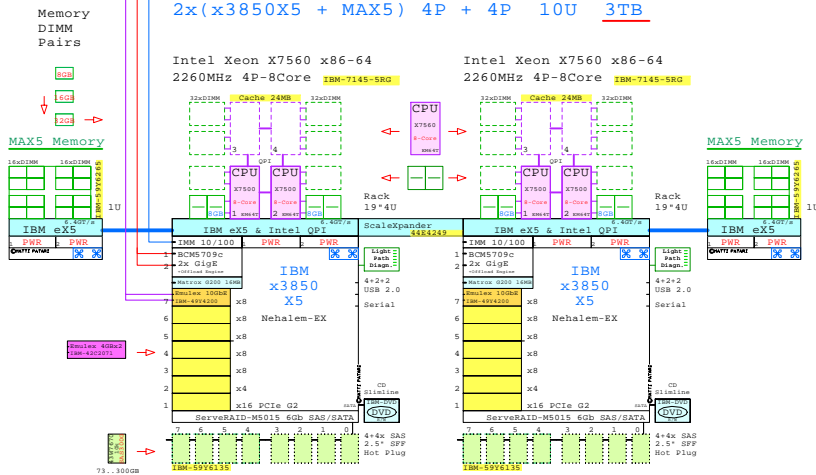
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 Compare AMD/Intel 4-socket system  
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IBM

2x(x3850X5 + MAX5) 4P + 4P 10U 3TB

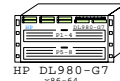


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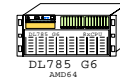
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10U

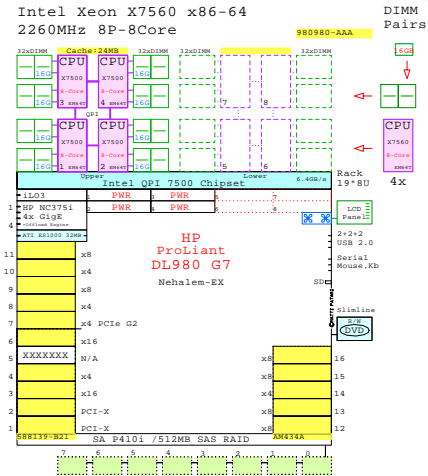


8U

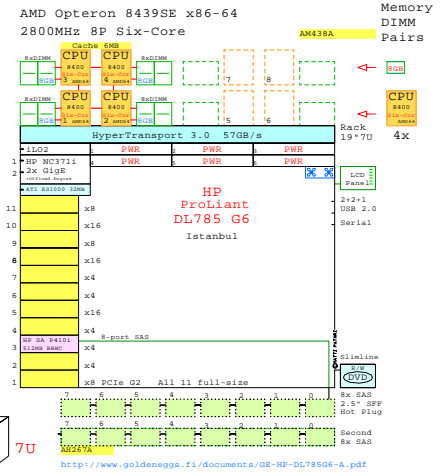


7U

DL980-G7 4P + 4P 8U 2TB



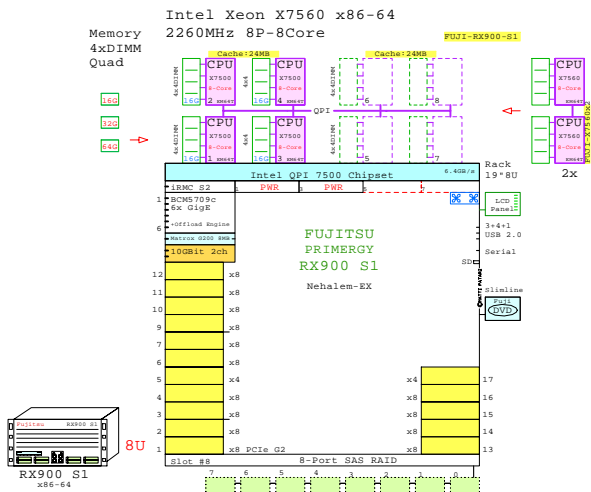
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Fujitsu

RX900-S1 4P + 4P 8U 2TB

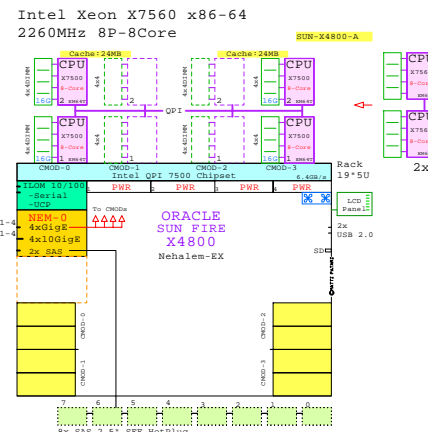


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5U

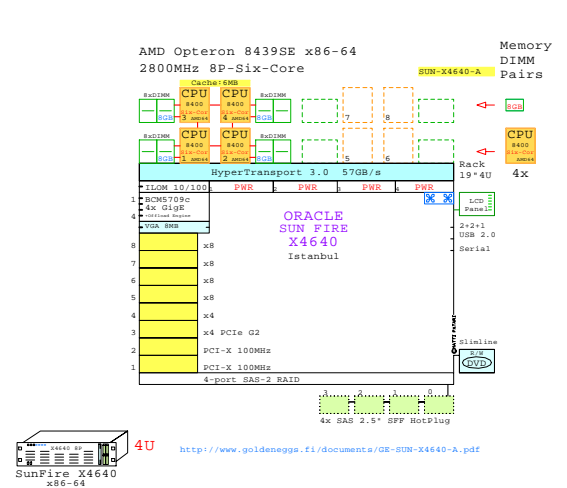
X4800 4P + 4P 5U 2TB



<http://www.goldeneggs.fi/documents/GE-SUN-X4800-A.pdf>

Note, Modular Blade construction

X4640 4P + 4P 4U 1TB



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# Compare Tower, Intel 1- and 2-socket 4U x86-64 Servers

# Tower

Tip for detail printing:  
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- Print, Print Current View

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Dell

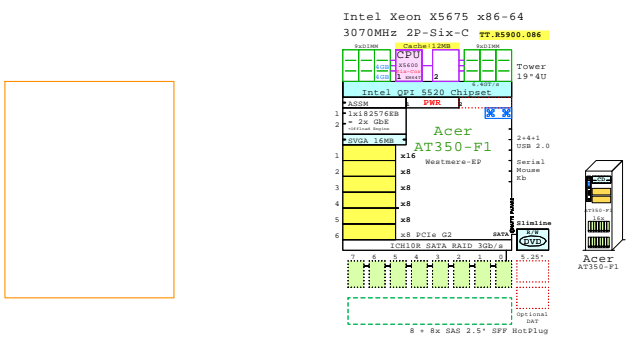
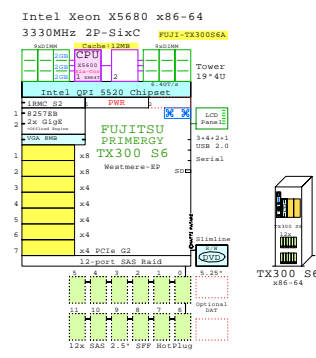
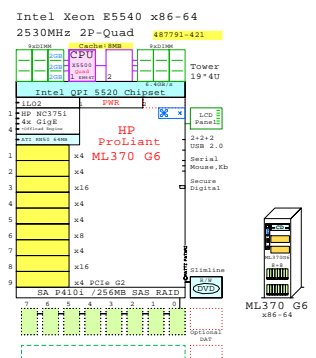
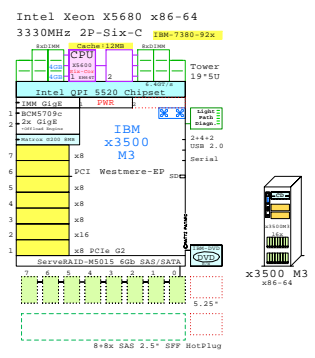
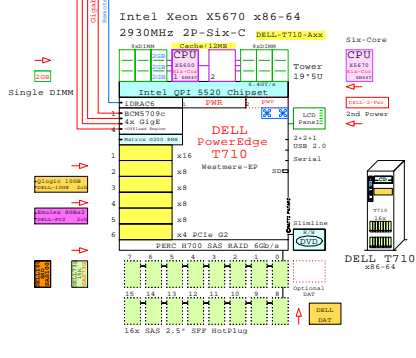
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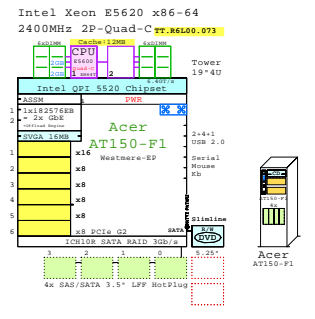
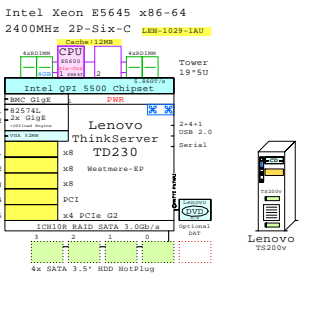
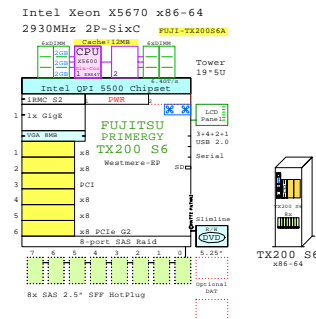
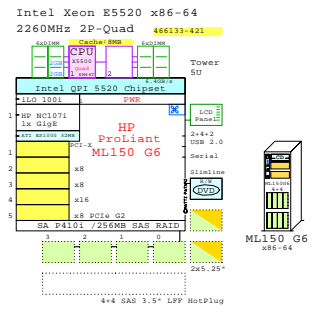
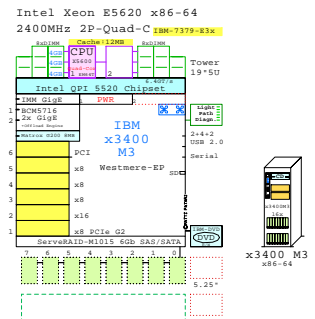
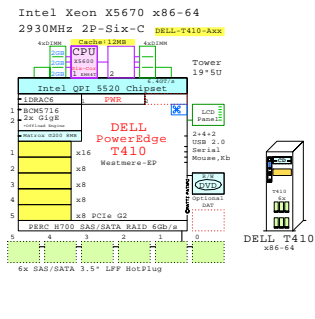
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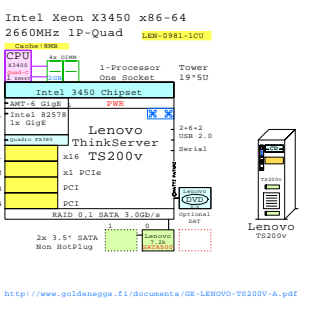
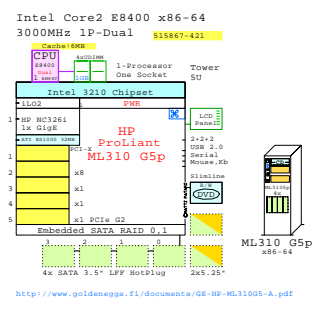
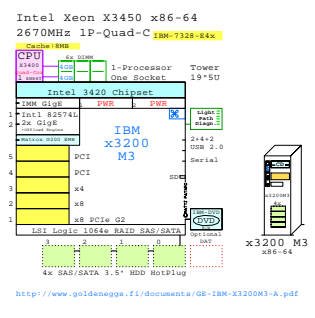
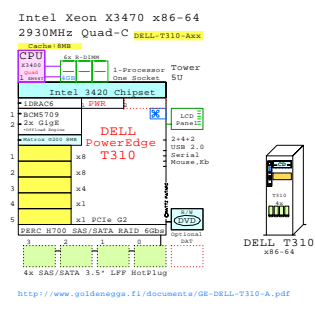
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# Tower

Date: 22-May-2011

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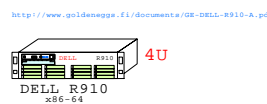
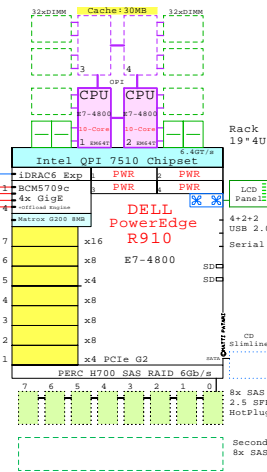
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## Dell Rack Servers

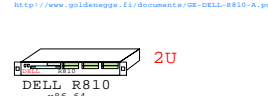
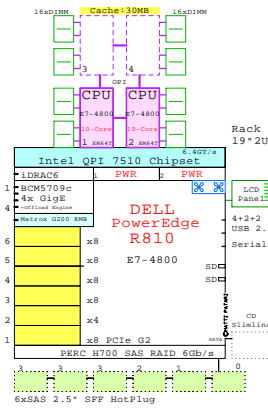
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Intel Xeon E7-4870 x86-64  
2400MHz 4P-10Core **DELL-R910-Bxx**



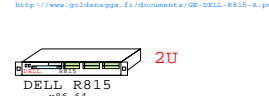
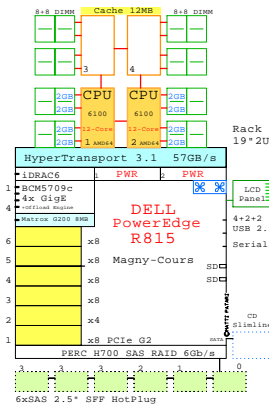
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2400MHz 4P 10-Core **DELL-R810-Cxx**



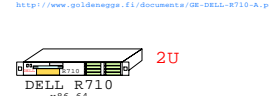
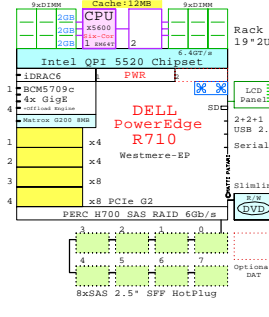
### Opteron 4P-2U

AMD Opteron 6174 x86-64  
2200MHz 4P 12-Cor **DELL-R815-Axx**



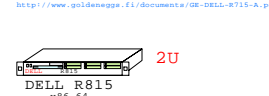
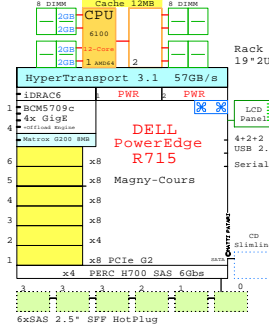
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Intel Xeon X5680 x86-64  
3330MHz 2P-Six-C **DELL-R710-Bxx**



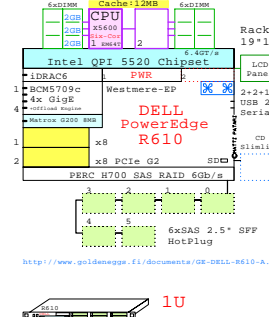
### Opteron 2P-2U

AMD Opteron 6174 x86-64  
2200MHz 2P 12-Cor **DELL-R715-Axx**



### Xeon 2P-1U

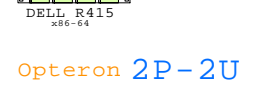
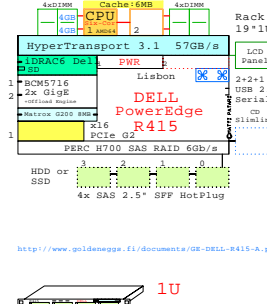
Intel Xeon X5680 x86-64  
3330MHz 2P-Six-C **DELL-R610-Bxx**



### Opteron 2P-1U

AMD 4100  
Low Wattage  
High Torque

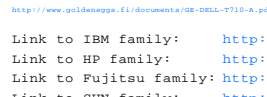
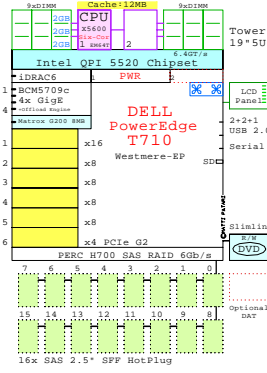
AMD Opteron 4184 x86-64  
2800MHz 2P 6-Core **DELL-R415-Axx**



## Dell Tower Servers

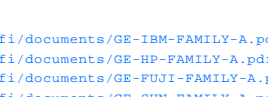
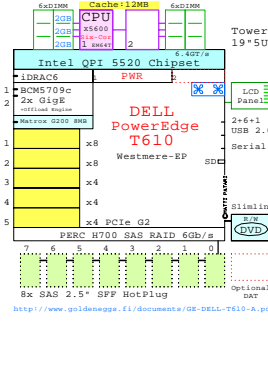
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Intel Xeon X5670 x86-64  
2930MHz 2P-Six-C **DELL-T710-Axx**



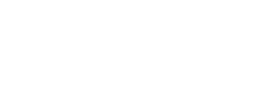
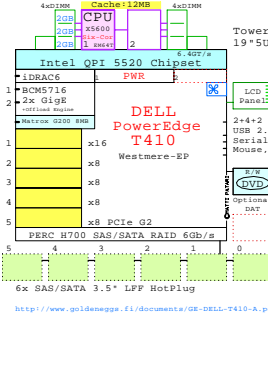
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Intel Xeon X5670 x86-64  
2930MHz 2P-Six-C **DELL-T610-Axx**



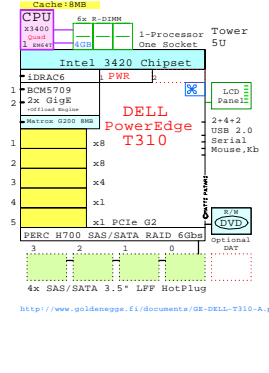
### Xeon 2P-5U

Intel Xeon X5670 x86-64  
2930MHz 2P-Six-C **DELL-T410-Axx**



### Xeon 1P-5U

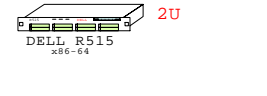
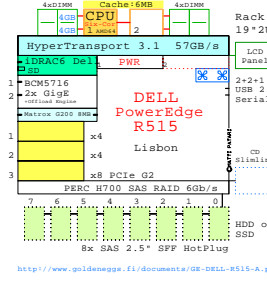
Intel Xeon X3470 x86-64  
2930MHz Quad-C **DELL-T310-Axx**



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### Opteron 2P-2U

AMD Opteron 4184 x86-64  
2800MHz 2P 6-Core **DELL-R515-Axx**



Created by:  
Matti.Patari@Kolumbus.Fi  
Helsinki

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- Zoom in area of interest  
- Print, Print Current View

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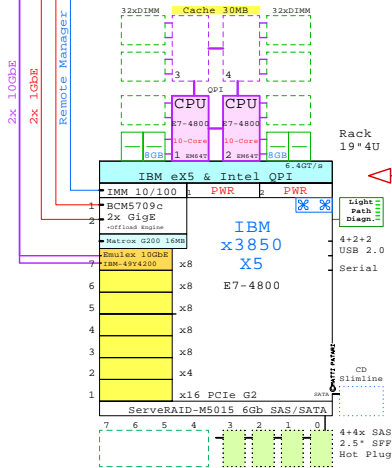
# IBM xSERVER x86 Server Family

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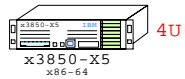
## IBM Rack Servers

### Xeon 4P-4U

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2400MHz 4P-10Core IBM-7143-B7U

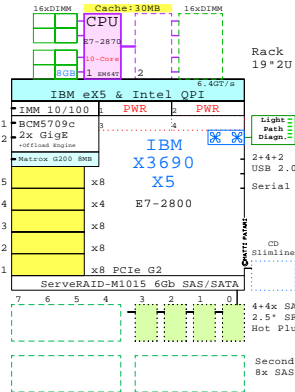


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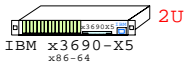


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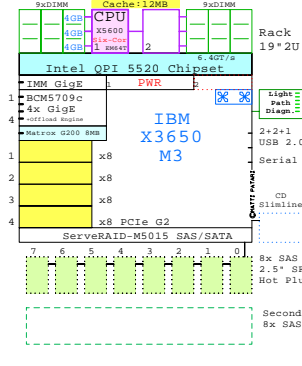


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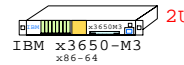


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Intel Xeon X5670 x86-64  
2930MHz 2P-Six-C IBM-7945-M2x

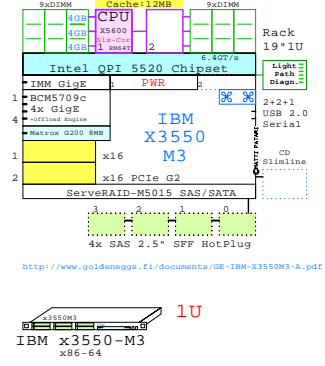


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### Xeon 2P-1U

Intel Xeon X5670 x86-64  
2930MHz 2P-Six-C IBM-7944-M2x



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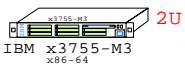
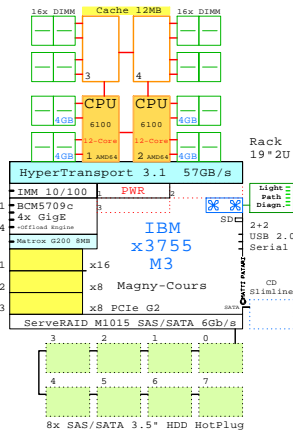
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### Opteron 4P-2U

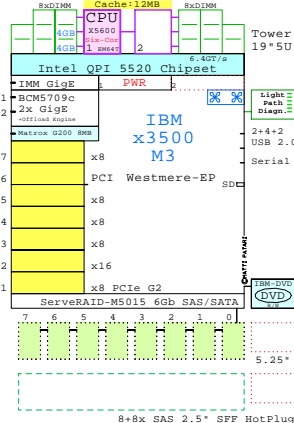
AMD Opteron 6172 x86-64  
2100MHz 4P 12-Cor IBM-7164-62U



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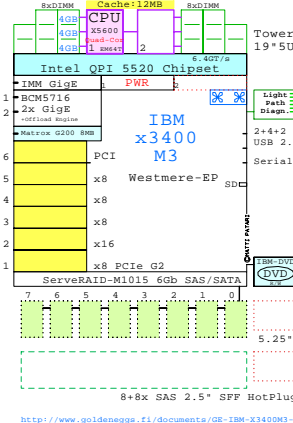
Intel Xeon X5680 x86-64  
3330MHz 2P-Six-C IBM-7380-92x



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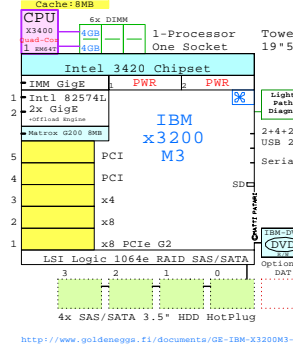
Intel Xeon E5620 x86-64  
2400MHz 2P-Quad-C IBM-7379-E3x



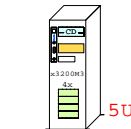
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### Xeon 1P-5U

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2670MHz 1P-Quad-C IBM-7328-E4x



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AMD Opteron 6172 x86-64  
2100MHz 4P 12-Cor IBM-7164-62U

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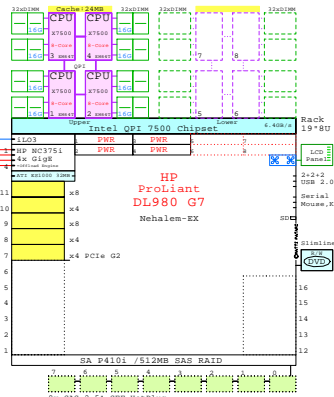
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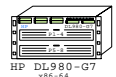
## HP Rack Servers

### Xeon 8P-8U

Intel Xeon X7560 x86-64  
2260MHz 8P-8Core



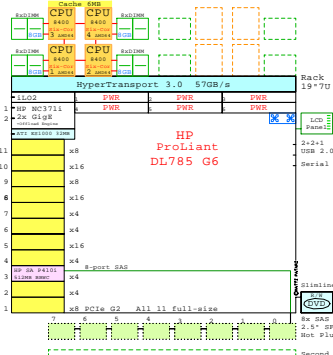
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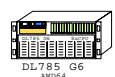
8U

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AMD Opteron 8439SE x86-64  
2800MHz 8P Six-Core



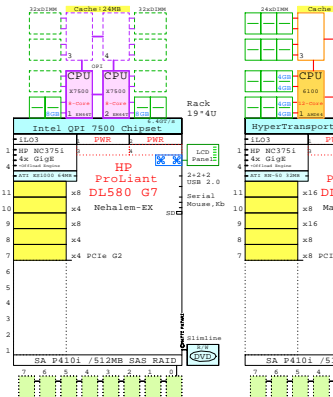
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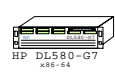
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Intel Xeon X7560 x86-64  
2260MHz 4P-8Core



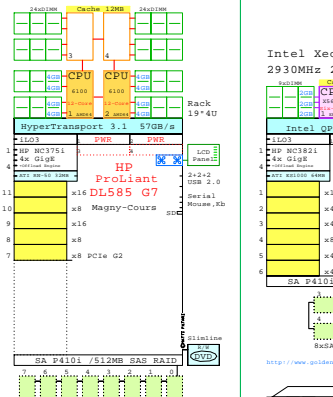
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4U

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AMD Opteron 6168 x86-64  
1900MHz 4P 12-Core



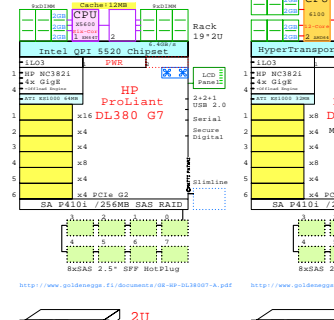
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4U

### Xeon 2P-2U

Intel Xeon X5670 x86-64  
2930MHz 2P-Six-C



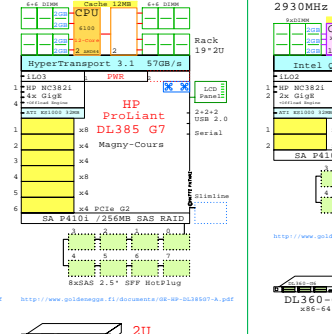
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2U

### Opteron 2P-2U

AMD Opteron 6172 x86-64  
2100MHz 2P 12-Core



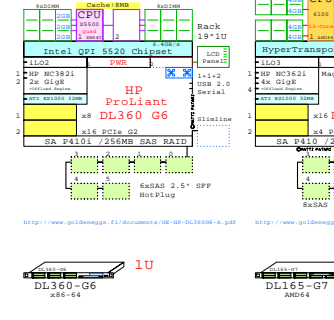
<http://www.goldeneggs.fi/documents/08-0P-DL385G7-A.pdf>



2U

### Xeon 2P-1U

Intel Xeon X5570 x86-64  
2930MHz 2P-Quad



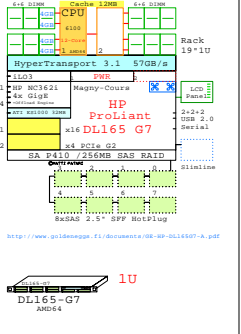
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1U

### Opteron 2P-1U

AMD Opteron 6172 x86-64  
2100MHz 2P 12-Core



<http://www.goldeneggs.fi/documents/08-0P-DL165G7-A.pdf>

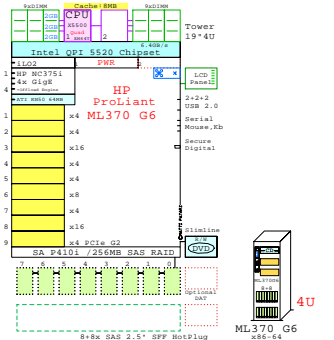


1U

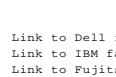
## HP Tower Servers

### Xeon 2P-4U

Intel Xeon E5540 x86-64  
2530MHz 2P-Quad



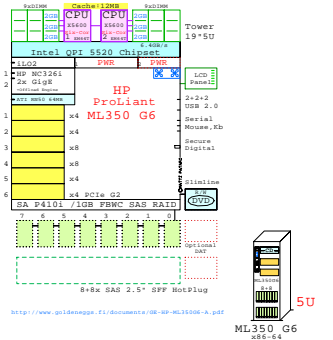
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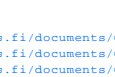
4U

### Xeon 2P-5U

Intel Xeon X5650 x86-64  
2260MHz 2P-Six-C



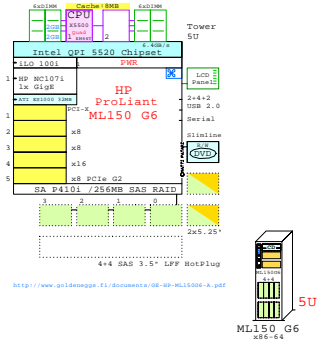
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5U

### Xeon 2P-5U

Intel Xeon E5520 x86-64  
2260MHz 2P-Quad



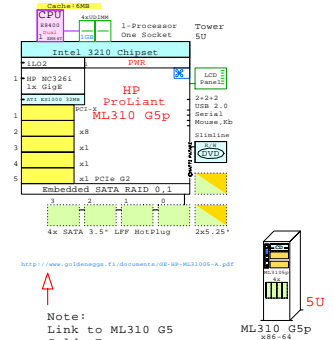
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5U

### Xeon 1P-5U

Intel Core2 E8400 x86-64  
3000MHz 1P-Dual



<http://www.goldeneggs.fi/documents/08-0P-ML310G5p-A.pdf>



5U

Note:  
Link to ML310 G5  
GoldenEggs  
document

Link to Dell family: <http://www.goldeneggs.fi/documents/GE-DELL-FAMILY-A.pdf>  
Link to IBM family: <http://www.goldeneggs.fi/documents/GE-IBM-FAMILY-A.pdf>  
Link to Fujitsu family: <http://www.goldeneggs.fi/documents/GE-FUJITSU-FAMILY-A.pdf>  
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Matti.Patari@Kolumbus.fi		
HP x86 Server 8P,4P,2P Intel,AMD		
GOLDEN EGG Visuals, Helsinki		

# Fujitsu Primergy x86 Server Family

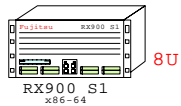
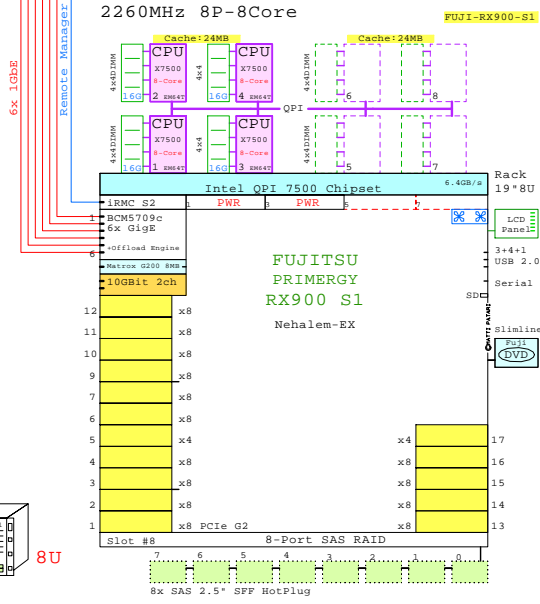
GE-link to this document: <http://www.goldeneggs.fi/documents/GE-FUJI-FAMILY-A.pdf>

## Fujitsu Rack Servers

### Xeon 8P-8U

Intel Xeon X7560 x86-64  
2260MHz 8P-8Core

FUJI-EX900-S1

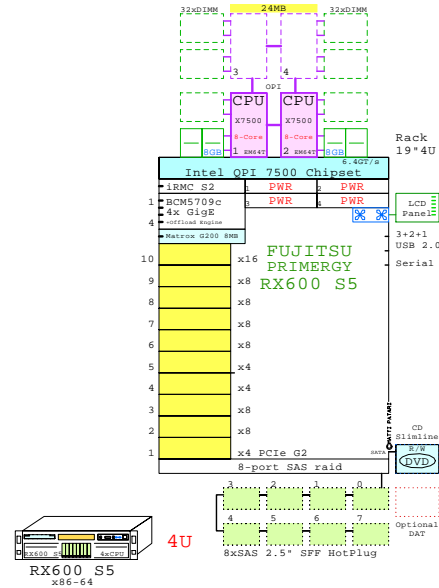


<http://www.goldeneggs.fi/documents/GE-FUJI-RX900S1-A.pdf>

### Xeon 4P-4U

Intel Xeon X7560 x86-64  
2260MHz 4P-8Core

FUJI-RX600-S5

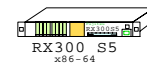
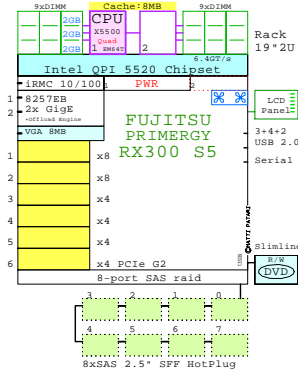


<http://www.goldeneggs.fi/documents/GE-FUJI-RX600S5-A.pdf>

### Xeon 2P-2U

Intel Xeon X5570 x86-64  
2930MHz 2P-Quad

FUJI-RX300S5A

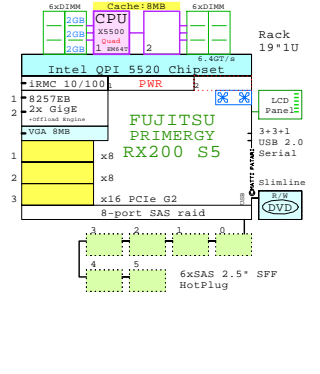


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### Xeon 2P-1U

Intel Xeon X5570 x86-64  
2930MHz 2P-Quad

FUJI-RX200S5A



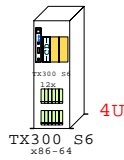
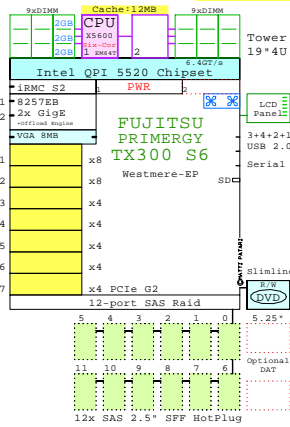
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## Fujitsu Tower Servers

### Xeon 2P-4U

Intel Xeon X5680 x86-64  
3330MHz 2P-SixC

FUJI-TX300S6A

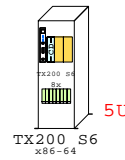
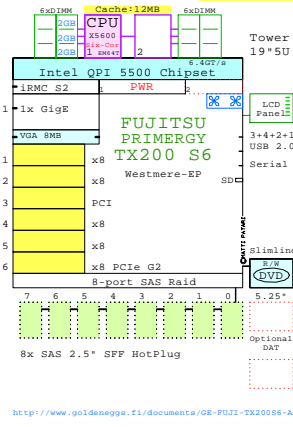


<http://www.goldeneggs.fi/documents/GE-FUJI-TX300S6-A.pdf>

### Xeon 2P-5U

Intel Xeon X5670 x86-64  
2930MHz 2P-SixC

FUJI-TX200S6A



<http://www.goldeneggs.fi/documents/GE-FUJI-TX200S6-A.pdf>

Note:  
Link to TX200 S6  
GoldenEggs  
document

GE-links to other x86 families:

- <http://www.goldeneggs.fi/documents/GE-DELL-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-IBM-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-HP-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-SUN-FAMILY-A.pdf>

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		Matti.Patari@Kolumbus.fi
Fujitsu x86 Server 8P,4P,2P Intel GOLDEN EGGS Visuals, Helsinki		

# SUN SunFire x86 Server Family

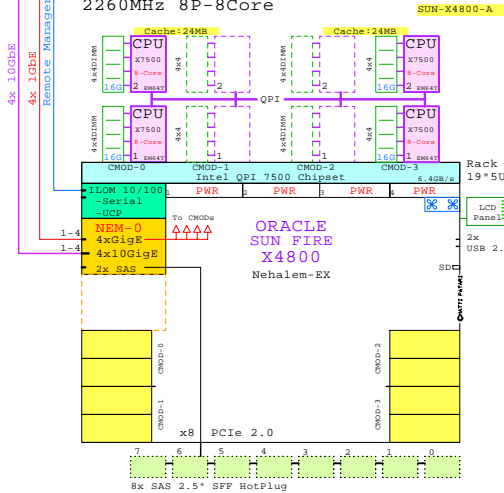
GE-link to this document: <http://www.goldeneggs.fi/documents/GE-SUN-FAMILY-A.pdf>

## SUN Rack Servers

### Xeon 8P-5U

Intel Xeon X7560 x86-64  
2260MHz 8P-8Core

SUN-X4800-A



<http://www.goldeneggs.fi/documents/GE-SUN-X4800-A.pdf>



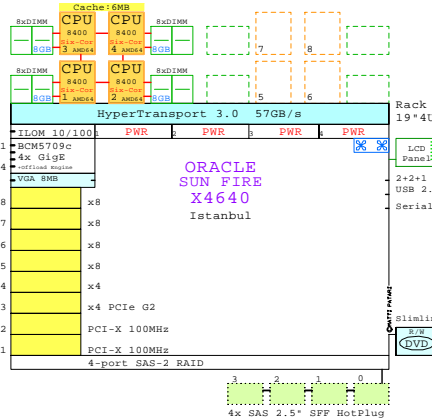
5U

SunFire X4800 x64

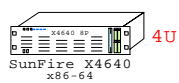
### Opteron 8P-4U

AMD Opteron 8439SE x86-64  
2800MHz 8P-Six-Core

SUN-X4640-A



<http://www.goldeneggs.fi/documents/GE-SUN-X4640-A.pdf>



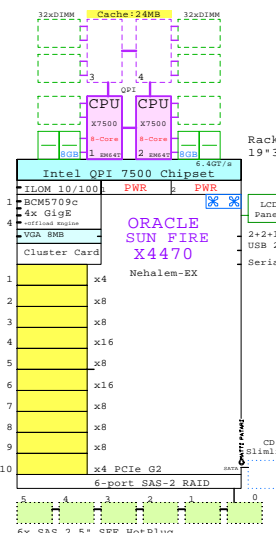
4U

SunFire X4640 x86-64

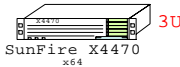
### Xeon 4P-3U

Intel Xeon X7560 x64  
2260MHz 4P-8Core

SUN-X4270-A



<http://www.goldeneggs.fi/documents/GE-SUN-X4270-A.pdf>



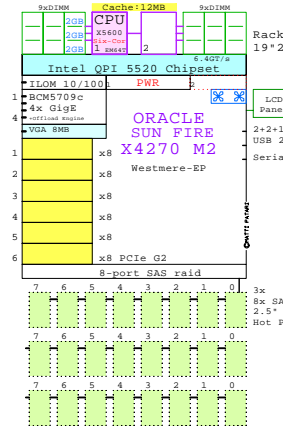
3U

SunFire X4270 x64

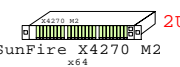
### Xeon 2P-2U

Intel Xeon X5680 x64  
3330MHz 2P-Six-C SUN-X4270M2-A

SUN-X4270M2-A



<http://www.goldeneggs.fi/documents/GE-SUN-X4270M2-A.pdf>



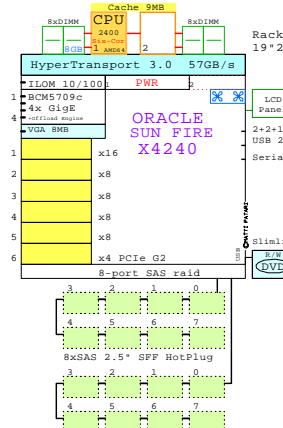
2U

SunFire X4270 M2 x64

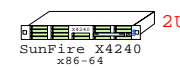
### Opteron 2P-2U

AMD Opteron 2431 x86-64  
2400MHz 2P Six-C SUN-X4240-B

SUN-X4240-B



<http://www.goldeneggs.fi/documents/GE-SUN-X4240-B.pdf>



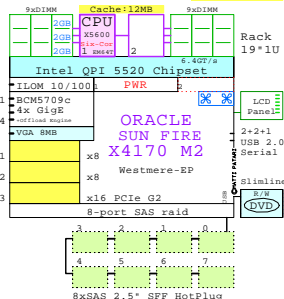
2U

SunFire X4240 x86-64

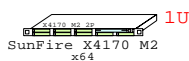
### Xeon 2P-1U

Intel Xeon X5680 x64  
3330MHz 2P-Six-C SUN-X4170M2-A

SUN-X4170M2-A



<http://www.goldeneggs.fi/documents/GE-SUN-X4170M2-A.pdf>



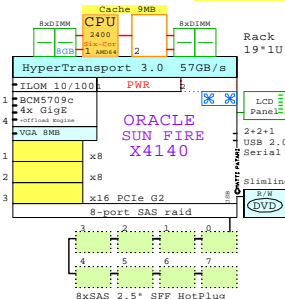
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SunFire X4170 M2 x64

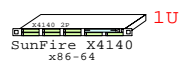
### Opteron 2P-1U

AMD Opteron 2431 x86-64  
2400MHz 2P Six-C SUN-X4140-B

SUN-X4140-B



<http://www.goldeneggs.fi/documents/GE-SUN-X4140-B.pdf>



1U

SunFire X4140 x86-64

Note:  
Link to X4140 GoldenEggs document

- Link to Dell family: <http://www.goldeneggs.fi/documents/GE-DELL-FAMILY-A.pdf>
- Link to IBM family: <http://www.goldeneggs.fi/documents/GE-IBM-FAMILY-A.pdf>
- Link to HP family: <http://www.goldeneggs.fi/documents/GE-HP-FAMILY-A.pdf>
- Link to Fujitsu family: <http://www.goldeneggs.fi/documents/GE-FUJITSU-FAMILY-A.pdf>

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SUN x86 Server 8P,4P,2P Intel,AMD  
GOLDEN EGGS Visuals, Helsinki

Xeon 4P-4U

Intel Xeon E7-4870 x86-64  
2400MHz 4P-10Core **CISCO-C460-M2a**

Xeon 2P-2U

Extended-Memory **1TB**

Intel Xeon E7-2870 x86-64  
2400MHz 2P-10Core **CISCO-C260-M2a**

Xeon 2P-2U

Extended-Memory **0.8TB**

Intel Xeon X5680 x86-64  
3330MHz 2P-Six-C **CISCO-C250-M2a**

Xeon 2P-2U

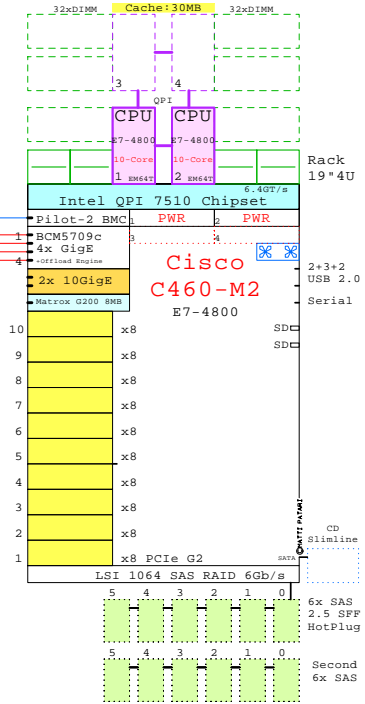
Intel Xeon X5680 x86-64  
3330MHz 2P-Six-C **CISCO-C210-M2a**

Xeon 2P-1U

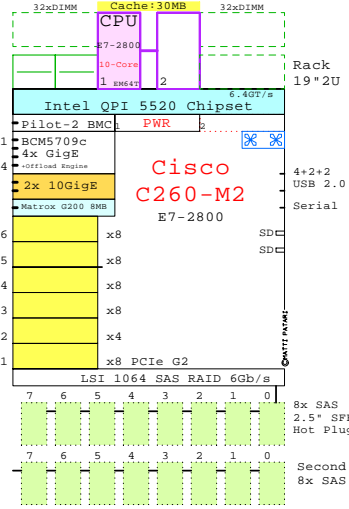
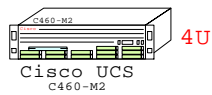
Intel Xeon X5680 x86-64  
3330MHz 2P-Six-C **CISCO-C200-M2a**

4x 1GbE

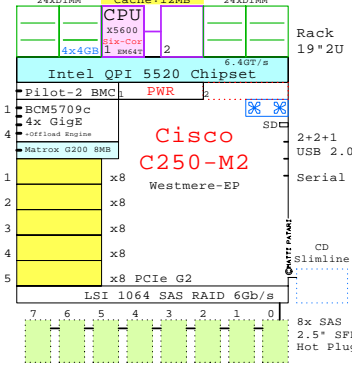
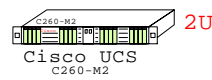
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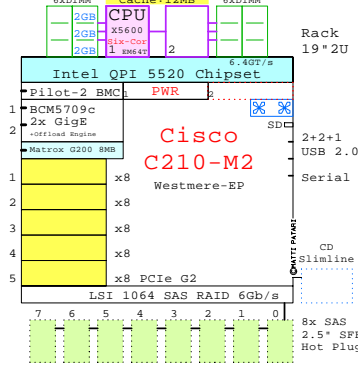
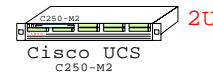
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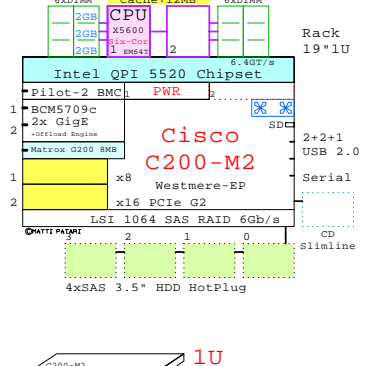
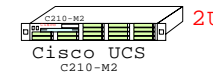
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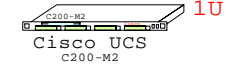
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↑ [Link to C200-M2 Detail-Document](#)

GE-links to other x86 families:

- <http://www.goldeneggs.fi/documents/GE-DELL-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-IBM-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-HP-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-FUJI-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-SUN-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-ACER-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-LENOVO-FAMILY-A.pdf>

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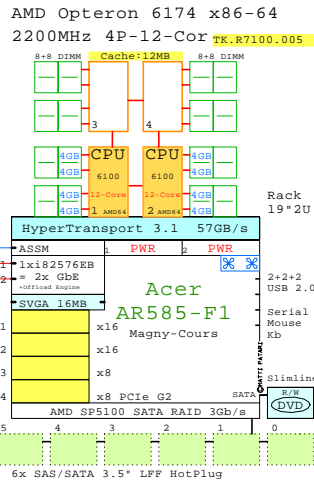
Cisco UCS x86 Server 4P,2P Intel  
GOLDEN EGGS Visuals, Helsinki

# Acer x86 Server Family

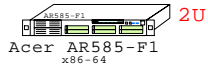
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## Acer Rack Servers

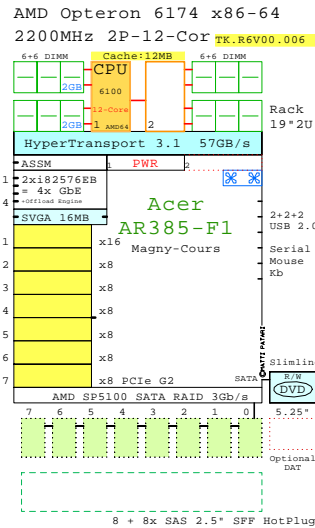
### Opteron 4P-2U



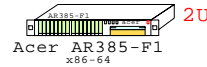
<http://www.goldeneggs.fi/documents/GE-ACER-AR585F1-A.pdf>



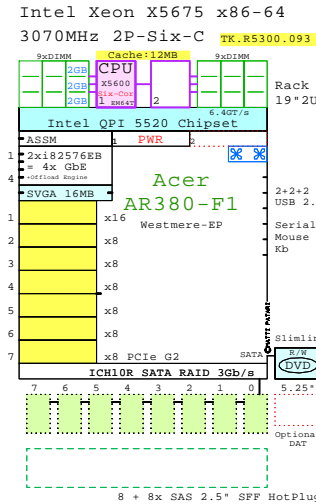
### Opteron 2P-2U



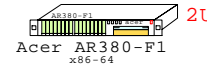
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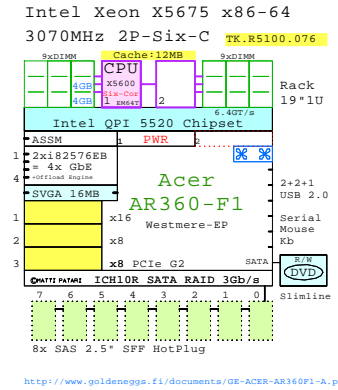
### Xeon 2P-2U



<http://www.goldeneggs.fi/documents/GE-ACER-AR380F1-A.pdf>

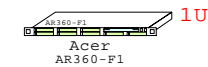


### Xeon 2P-1U



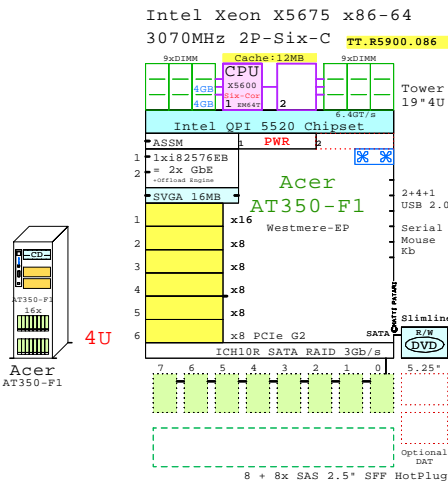
<http://www.goldeneggs.fi/documents/GE-ACER-AR360F1-A.pdf>

↑ Link to AR360-F1 Detail-Document

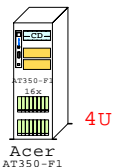


## Acer Tower Servers

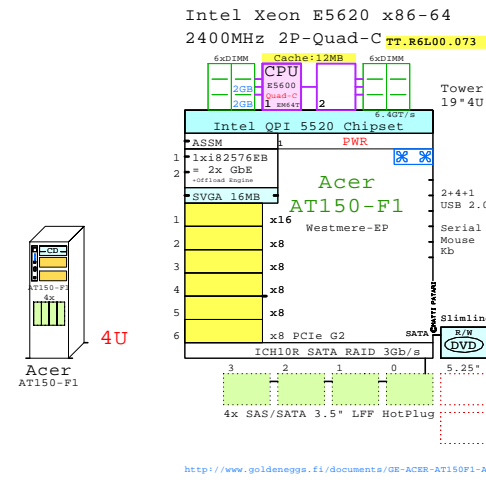
### Xeon 2P-4U



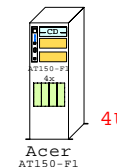
<http://www.goldeneggs.fi/documents/GE-ACER-AT350F1-A.pdf>



### Xeon 2P-4U



<http://www.goldeneggs.fi/documents/GE-ACER-AT150F1-A.pdf>



## GE-links to other x86 families:

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Helsinki

Tip for detail printing:  
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- Print, Print Current View

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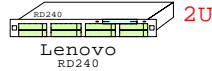
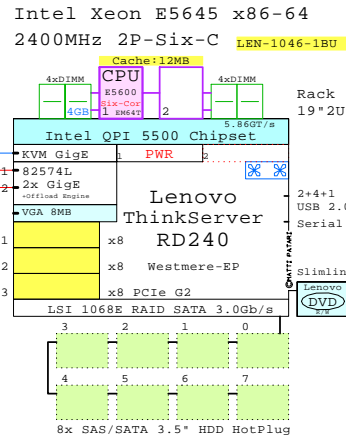
Acer x86 Server 4P,2P AMD,Intel  
GOLDEN EGGS Visuals, Helsinki

# Lenovo x86 Server Family

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

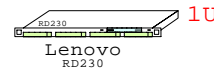
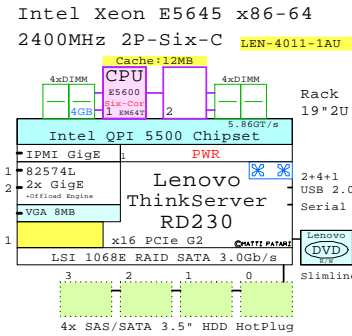
## Lenovo Rack Servers

### Xeon 2P-2U



<http://www.goldeneggs.fi/documents/GE-LENOVO-RD240-A.pdf>

### Xeon 2P-1U



<http://www.goldeneggs.fi/documents/GE-LENOVO-RD230-A.pdf>

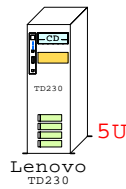
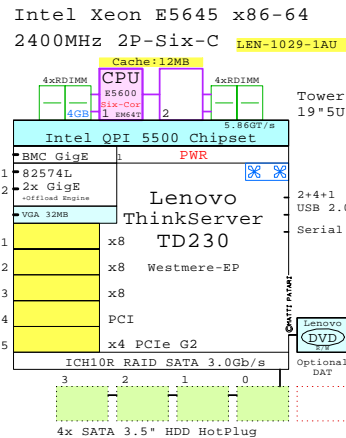
↑ Link to RD230 Detail-Document

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- <http://www.goldeneggs.fi/documents/GE-CISCO-FAMILY-A.pdf>

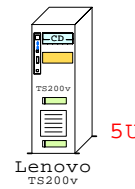
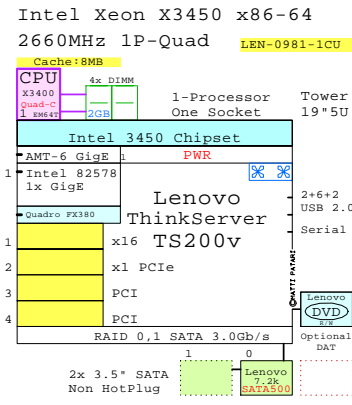
## Lenovo Tower Servers

### Xeon 2P-5U



<http://www.goldeneggs.fi/documents/GE-LENOVO-TD230-A.pdf>

### Xeon 1P-5U



<http://www.goldeneggs.fi/documents/GE-LENOVO-TS200V-A.pdf>

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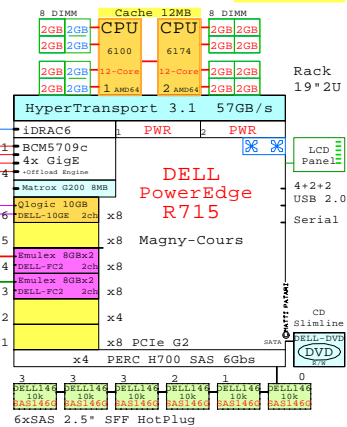
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A picture is worth of one thousand words.  
It talks all Global languages.

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

AMD Opteron 6174 x86-64

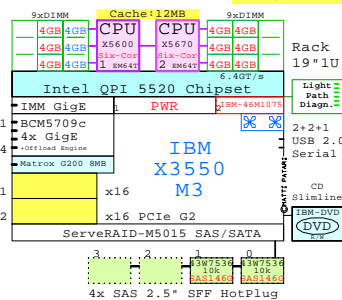
2200MHz 2P 12-Cor **DELL-R715-Axx**



2x 8Gb Fibre Channel to external storage

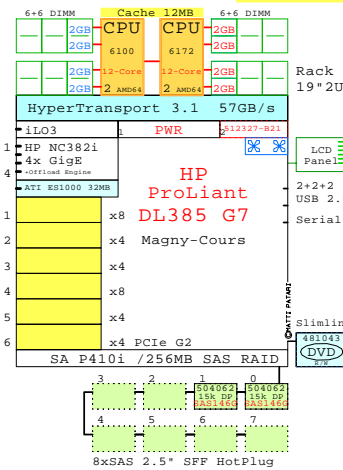
Intel Xeon X5670 x86-64

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



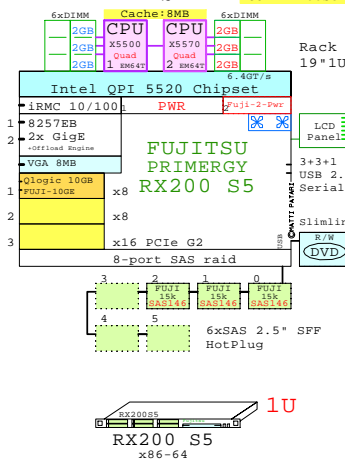
AMD Opteron 6172 x86-64

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



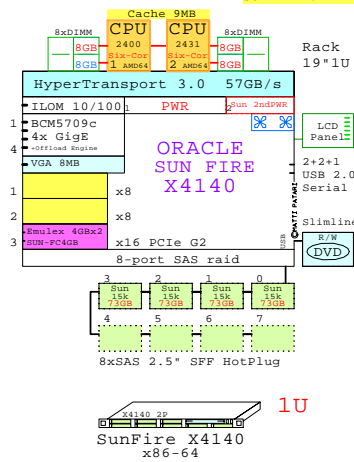
Intel Xeon X5570 x86-64

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



AMD Opteron 2431 x86-64

2400MHz 2P Six-C **SUN-X4140-B**



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

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