

# GOLDEN EGGS

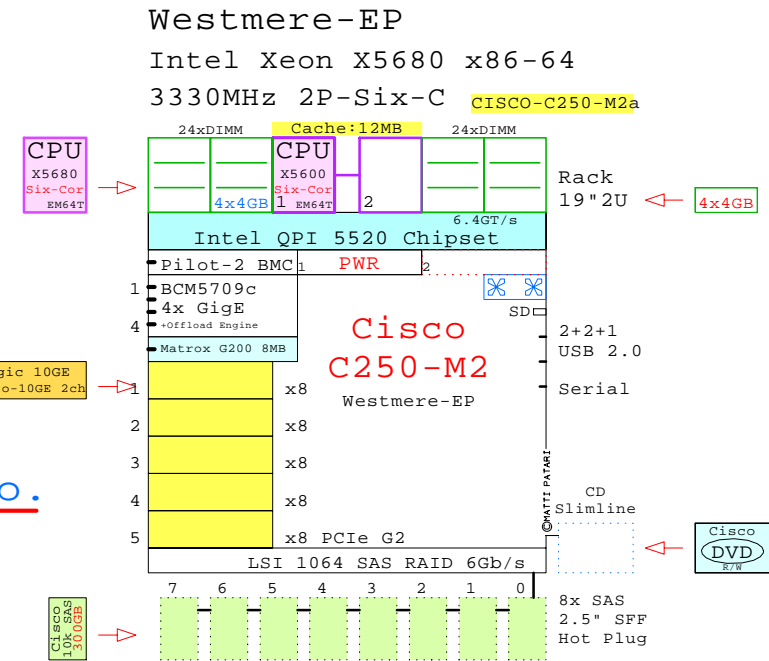
Visual Cook Book to Compare X86-64 Servers:  
 Dell, IBM, HP, Fujitsu, SUN, Cisco, Acer and Lenovo.

## 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 Servers 1P 2P 4P 8P  
 GOLDEN EGGS Visuals, Helsinki

# 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

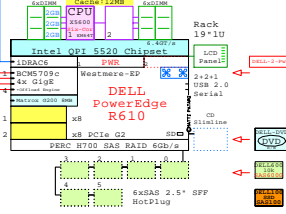
Lenovo

## Intel Xeon x86-64

CPU  
x860  
x8600  
x8600  
Single DIMM

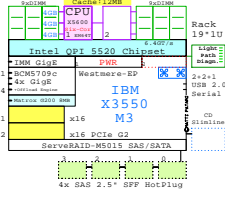
Intel Xeon X5680 x86-64

3330MHz 2P-Six-C DELL-R610-Box



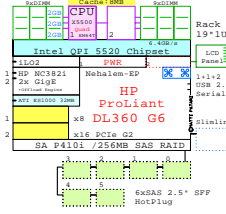
Intel Xeon X5670 x86-64

2930MHz 2P-Six-C IBM-7944-M2



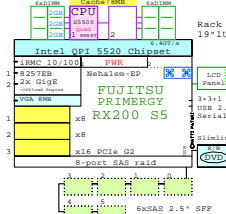
Intel Xeon X5570 x86-64

2930MHz 2P-Quad HP-60434-421



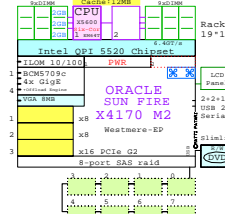
Intel Xeon X5570 x86-64

2930MHz 2P-Quad FUJITSU-RX200S5



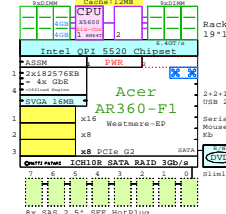
Intel Xeon X5680 x86-64

3330MHz 2P-Six-C SUN-X4170M2-A



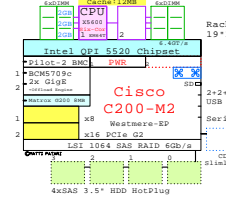
Intel Xeon X5675 x86-64

3070MHz 2P-Six-C ACER-AR360-F1



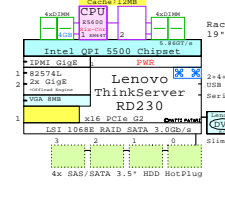
Intel Xeon X5680 x86-64

3330MHz 2P-Six-C CISCO-C200-M2



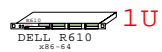
Intel Xeon E5645 x86-64

2400MHz 2P-Six-C LENOVO-4011-1AU



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<http://www.goldeneggs.fi/documents/GE-IBM-X3550M3-A.pdf>



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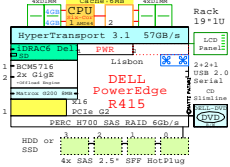
## AMD Opteron x86-64

Opteron 4100

CPU  
x8600  
x8600  
Single DIMM

AMD Opteron 4184 x86-64

2800MHz 2P 6-Core DELL-R415-Box

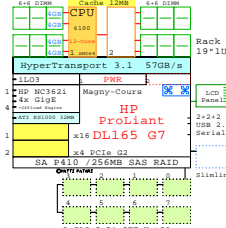


Opteron 6100

CPU  
x8600  
x8600  
Single DIMM

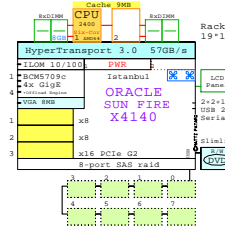
AMD Opteron 6172 x86-64

2100MHz 2P 12-Core HP-60434-421

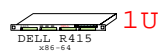


AMD Opteron 2431 x86-64

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



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<http://www.goldeneggs.fi/documents/GE-HP-DL165G7-A.pdf>



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1U

Date: 22-May-2011

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Matti.Patari@Kolumbus.Fi		
Compare AMD/Intel 2P-1U systems		
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# Compare AMD and Intel 2-socket 2U x86 rack servers

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2U

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Dell

IBM

HP

Fujitsu

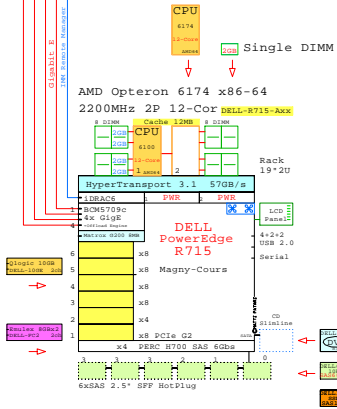
SUN

Acer

Cisco

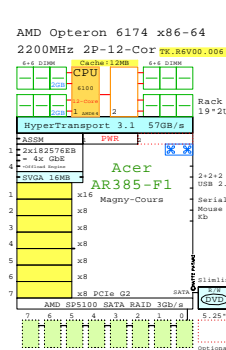
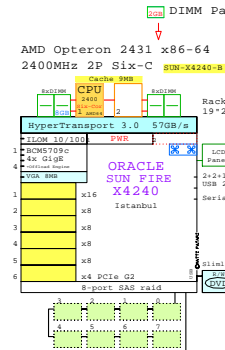
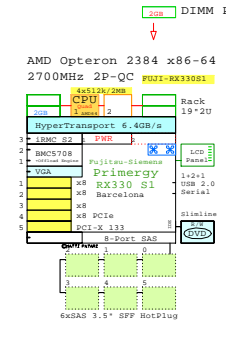
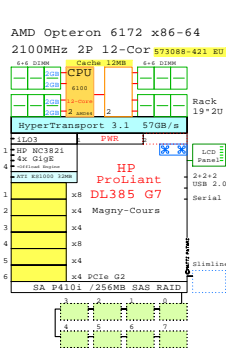
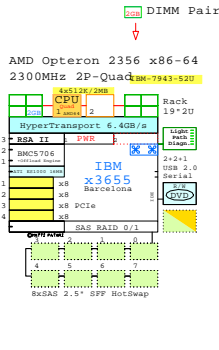
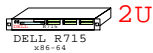
Lenovo

## AMD Opteron x86-64

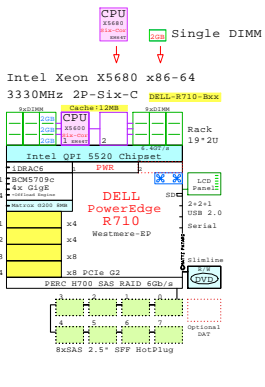


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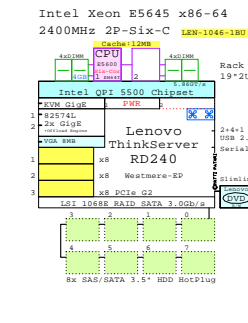
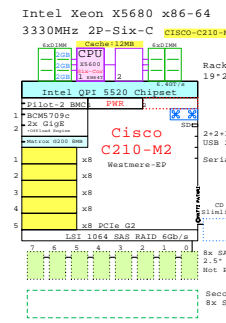
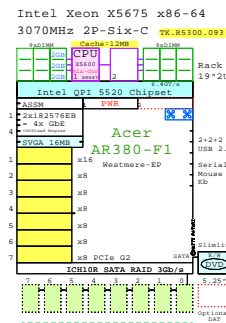
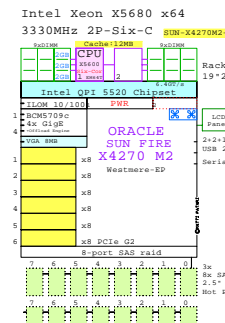
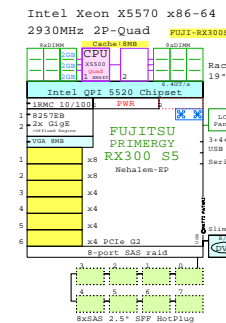
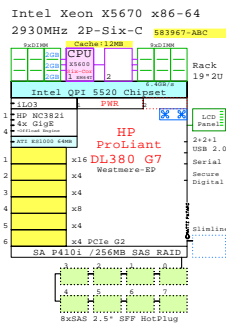
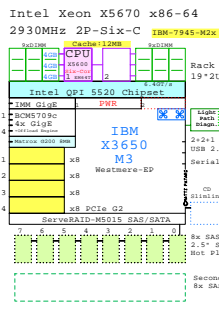
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## Intel Xeon x86-64



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

2U

Date: 22-May-2011

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

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GOLDEN EGGS Visuals Helsinki Matti.Patari@kolumbus.fi

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

## Dell

## HP

## Cisco

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

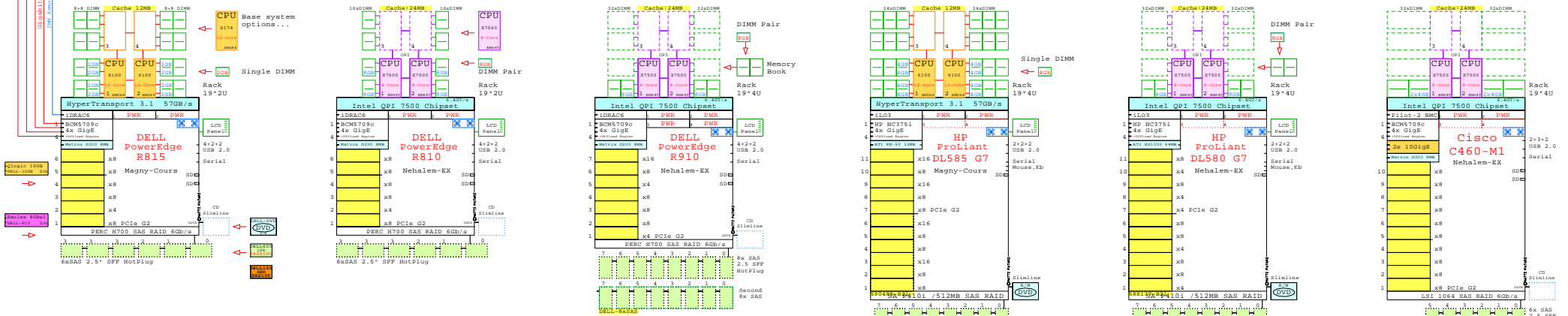
Intel Xeon X7560 x86-64  
 2260MHz 4P-8Core  
 DELL-R810-AXX

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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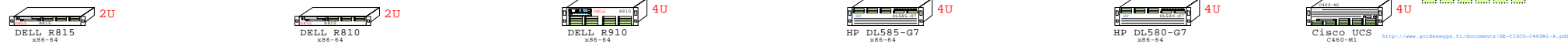
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## IBM

## Fujitsu

## SUN

## Acer

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

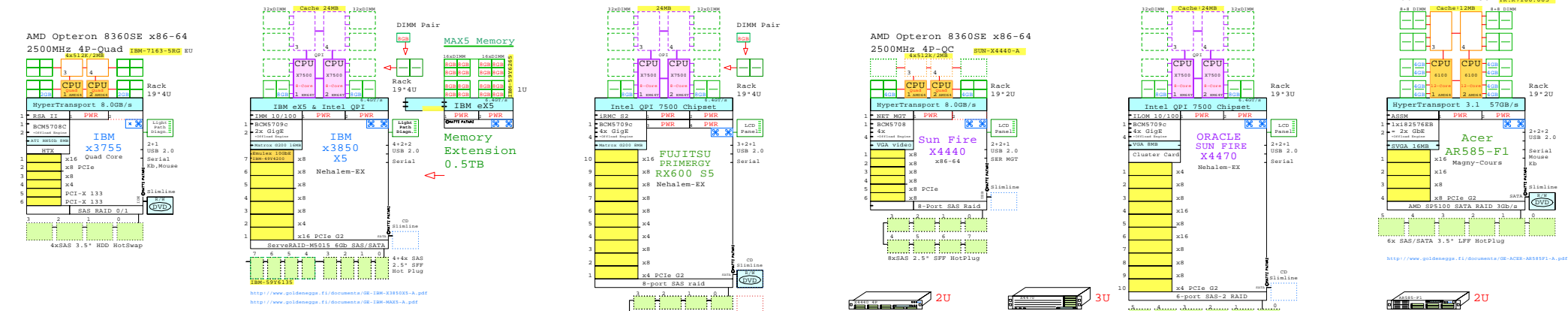
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 IBM-7145-SRQ

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 x86-64  
 2260MHz 4P-8Core  
 SUN-X4470-A

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



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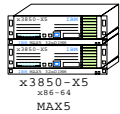
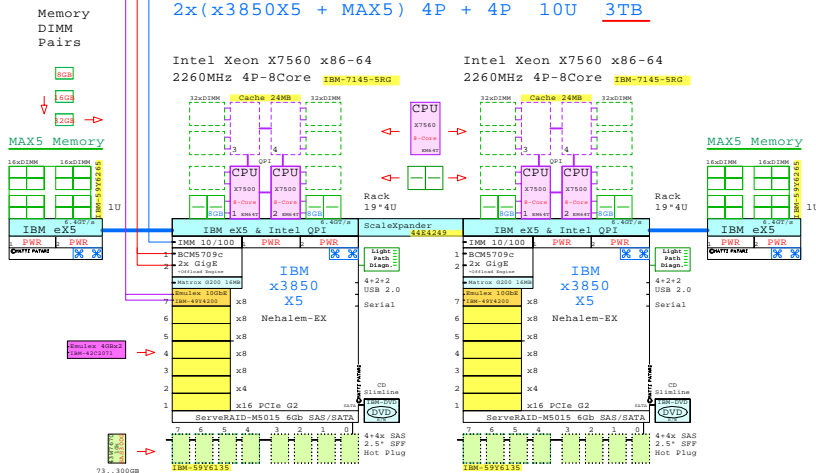
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 Compare AMD/Intel 4-socket system  
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IBM

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

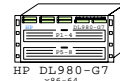


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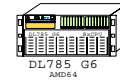
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10U



8U

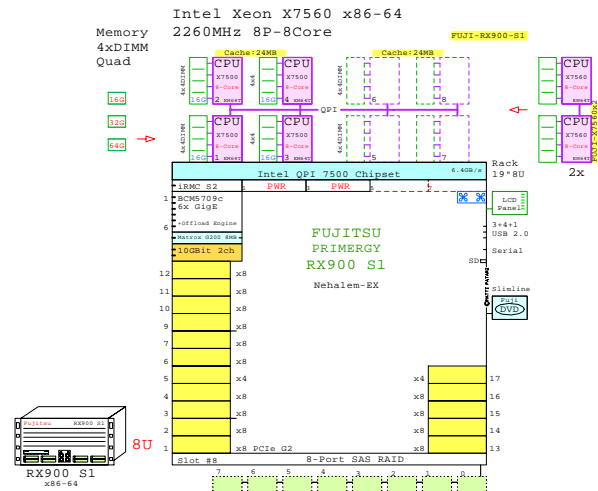


7U

SUN

Fujitsu

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

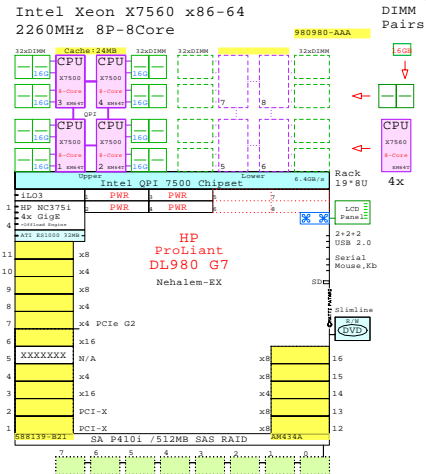


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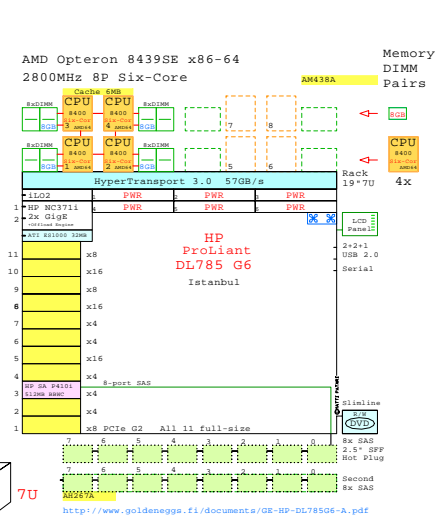
5U

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

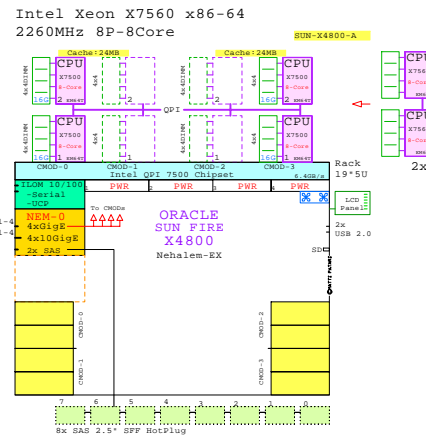


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DL785-G6 4P + 4P 7U 1TB

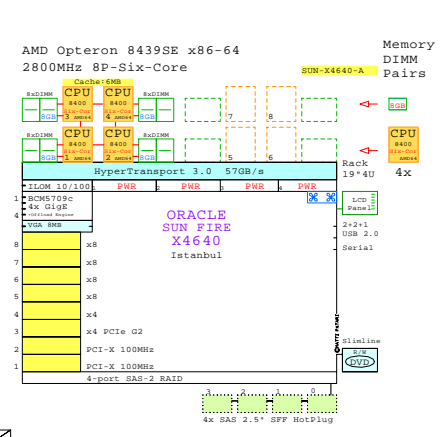


X4800 4P + 4P 5U 2TB



Note, Modular Blade construction

X4640 4P + 4P 4U 1TB



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- <http://www.goldeneggs.fi/documents/GE-HP-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-FUJITSU-FAMILY-A.pdf>
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- <http://www.goldeneggs.fi/documents/GE-COMPARE-8P-8U-A.pdf>
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# Compare Tower, Intel 1- and 2-socket 4U x86-64 Servers

**Tower**

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

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**Dell**

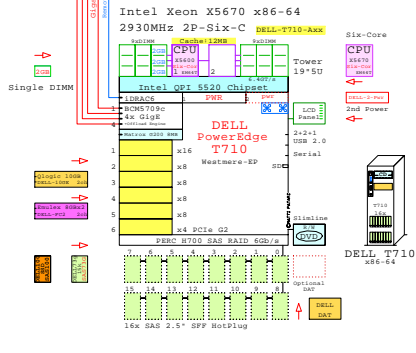
**IBM**

**HP**

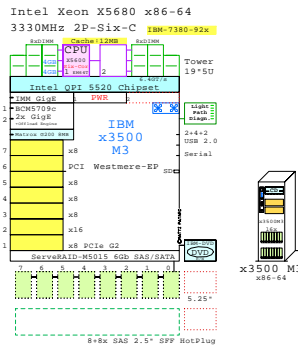
**Fujitsu**

**Lenovo**

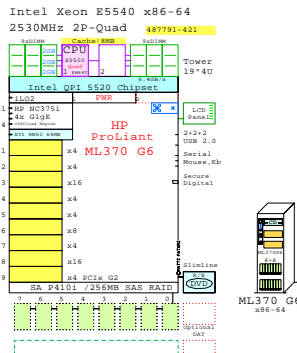
**Acer**



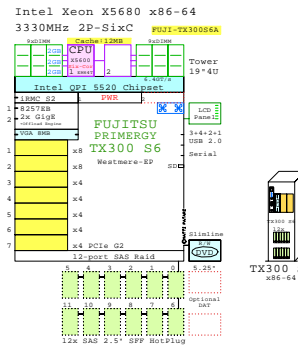
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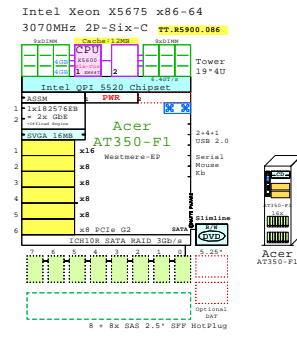
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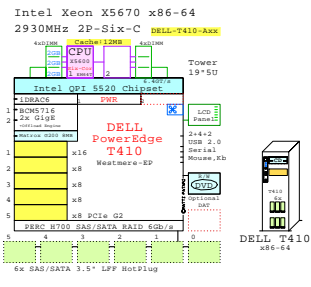
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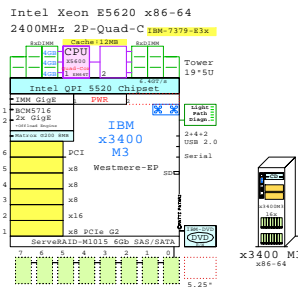
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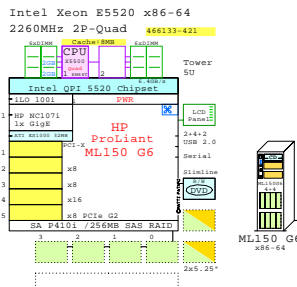
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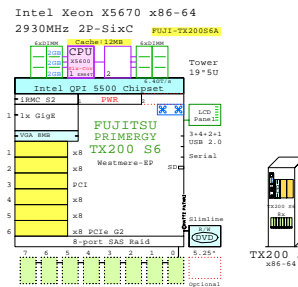
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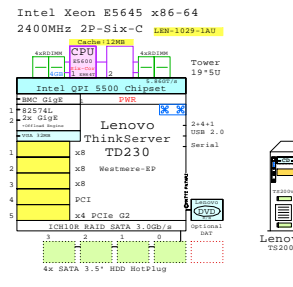
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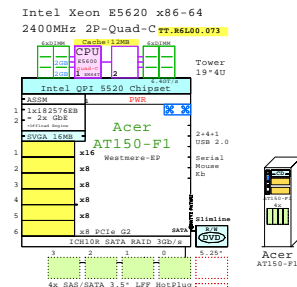
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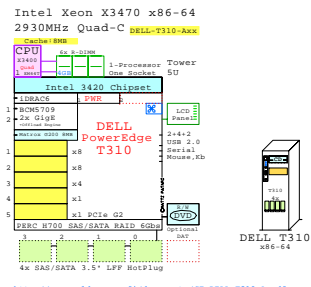
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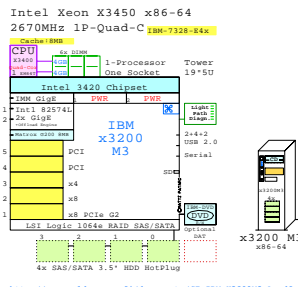
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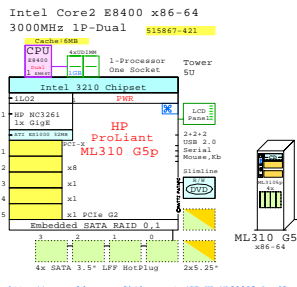
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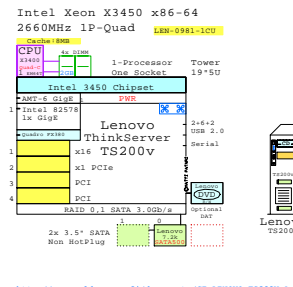
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**Tower**

Date: 22-May-2011

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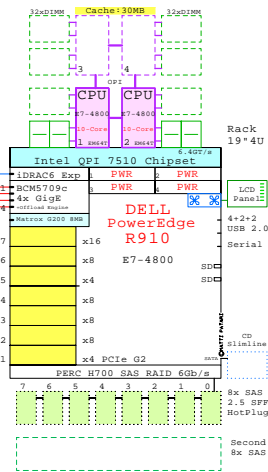
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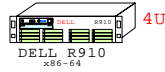
## Dell Rack Servers

### Xeon 4P-4U

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

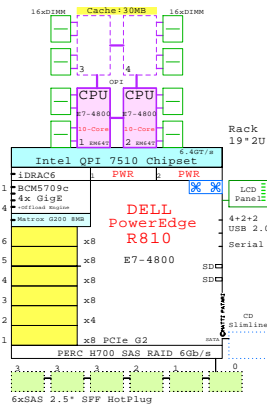


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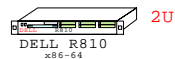


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Intel Xeon E7-4870 x86-64  
2400MHz 4P 10-Core **DELL-R810-Cxx**

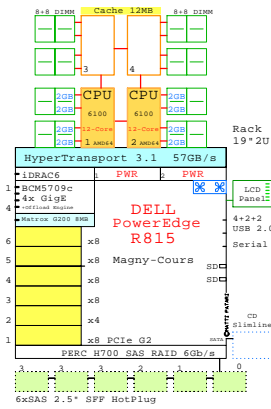


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AMD Opteron 6174 x86-64  
2200MHz 4P 12-Core **DELL-R815-Axx**

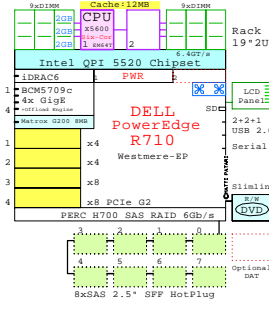


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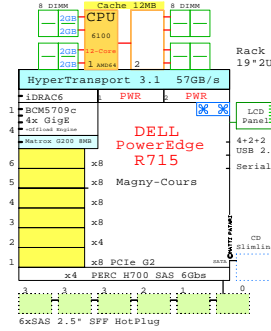


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AMD Opteron 6174 x86-64  
2200MHz 2P 12-Core **DELL-R715-Axx**

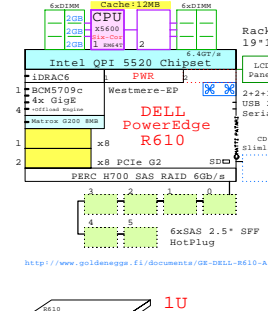


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Intel Xeon X5680 x86-64  
3330MHz 2P-Six-C **DELL-R610-Bxx**



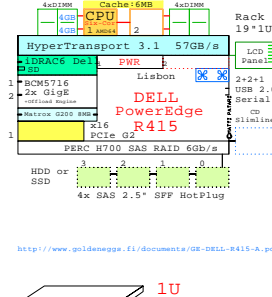
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### Opteron 2P-1U

AMD 4100  
Low Wattage  
High Torque

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



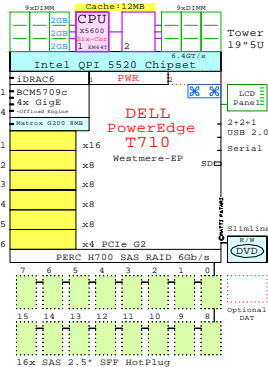
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## Dell Tower Servers

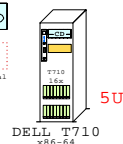
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Intel Xeon X5670 x86-64  
2930MHz 2P-Six-C **DELL-T710-Axx**



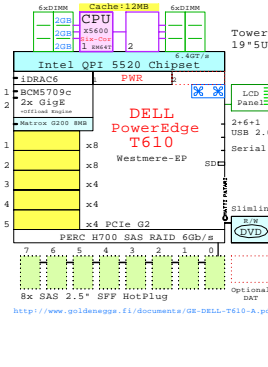
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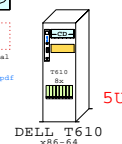


### Xeon 2P-5U

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

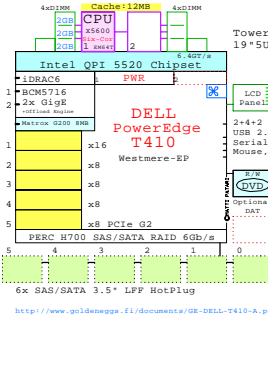


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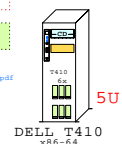


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Intel Xeon X5670 x86-64  
2930MHz 2P-Six-C **DELL-T410-Axx**

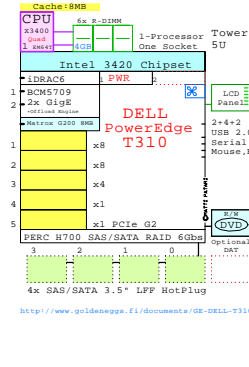


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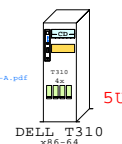


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Intel Xeon X3470 x86-64  
2930MHz Quad-C **DELL-T310-Axx**

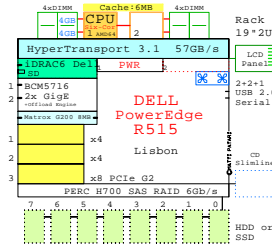


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Link to R515  
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document →

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



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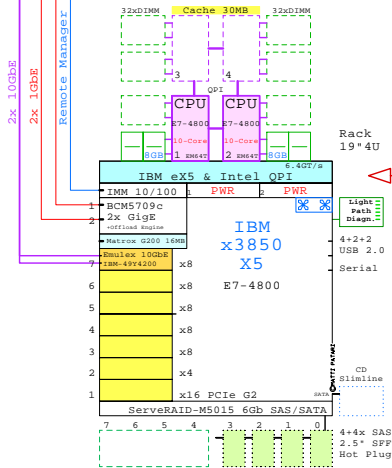
# IBM xSERVER x86 Server Family

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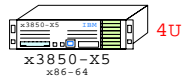
## IBM Rack Servers

### Xeon 4P-4U

Intel Xeon E7-4870 x86-64  
2400MHz 4P-10Core IBM-7143-B7U



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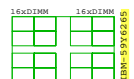


4U

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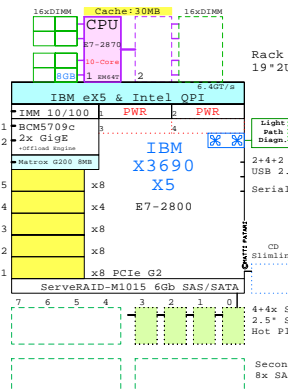
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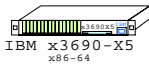
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1U



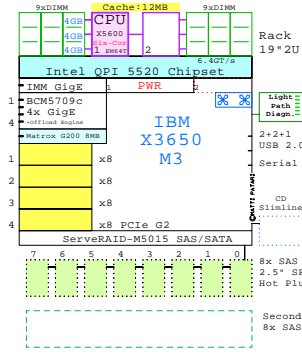
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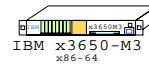
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Intel Xeon X5670 x86-64  
2930MHz 2P-Six-C IBM-7945-M2x



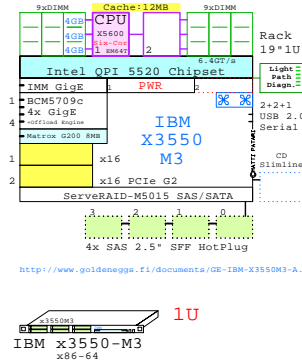
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2U

### Xeon 2P-1U

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



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1U

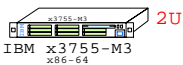
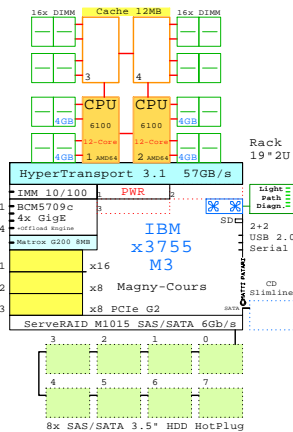
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## IBM Rack Servers

## IBM Tower Servers

### Opteron 4P-2U

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

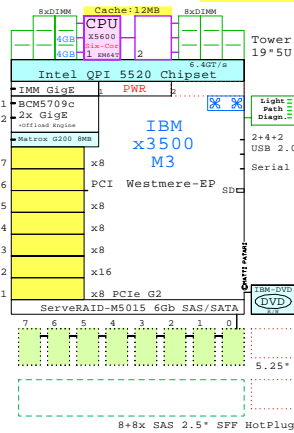


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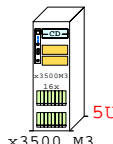
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### Xeon 2P-5U

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



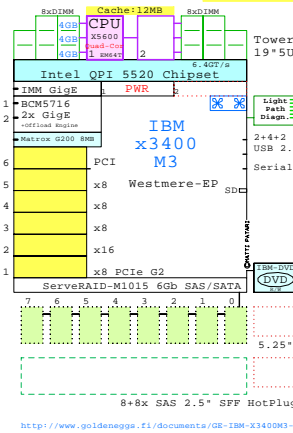
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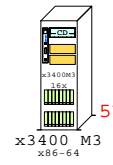
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Intel Xeon E5620 x86-64  
2400MHz 2P-Quad-C IBM-7379-E3x



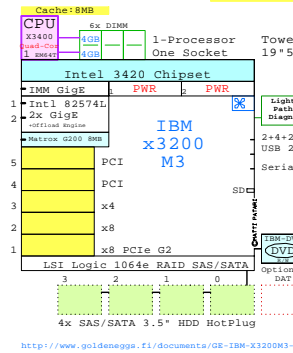
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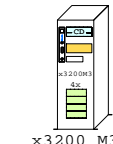
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### Xeon 1P-5U

Intel Xeon X3450 x86-64  
2670MHz 1P-Quad-C IBM-7328-E4x



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5U

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IBM x86 Servers 4P,2P,1P Intel  
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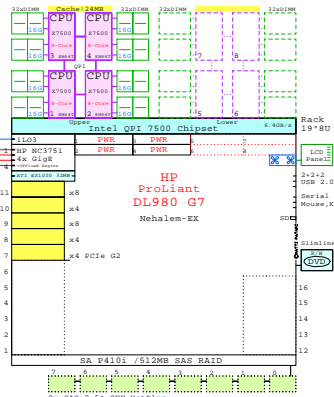
# HP ProLiant x86 Server Family

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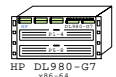
## HP Rack Servers

### Xeon 8P-8U

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



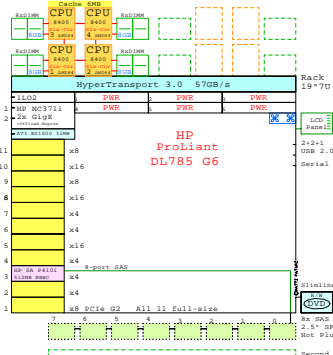
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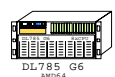
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### Opteron 8P-7U

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



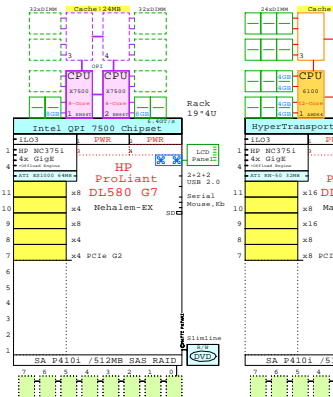
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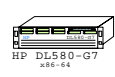
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Intel Xeon X7560 x86-64  
2260MHz 4P-8Core



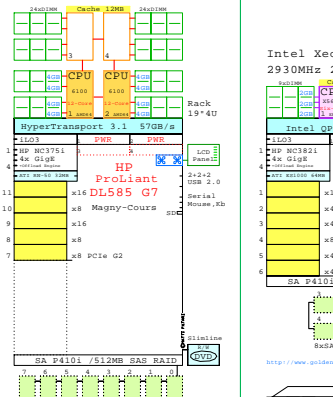
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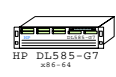
4U

### Opteron 4P-4U

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



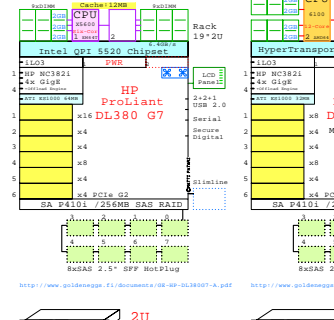
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4U

### Xeon 2P-2U

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



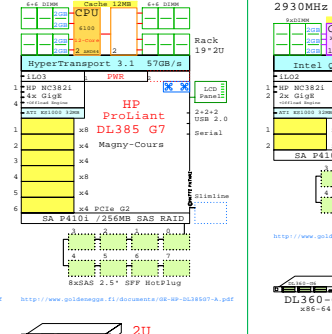
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2U

### Opteron 2P-2U

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



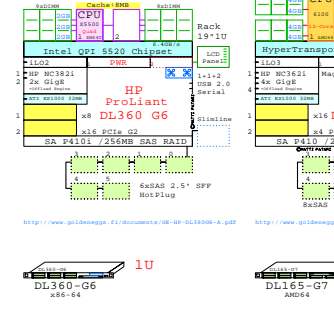
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2U

### Xeon 2P-1U

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



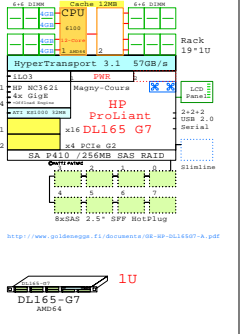
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1U

### Opteron 2P-1U

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



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

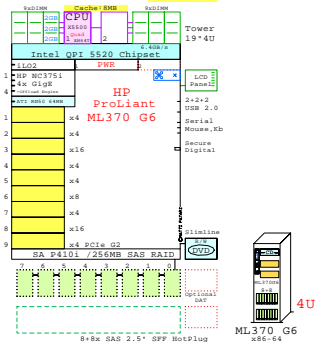


1U

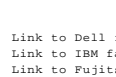
## HP Tower Servers

### Xeon 2P-4U

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



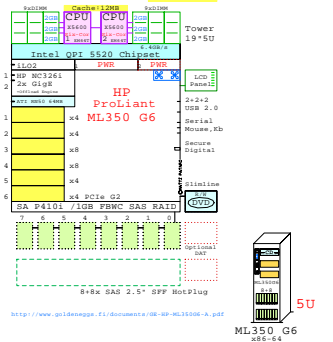
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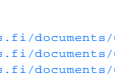
4U

### Xeon 2P-5U

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



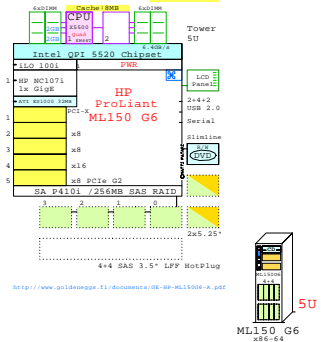
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5U

### Xeon 2P-5U

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



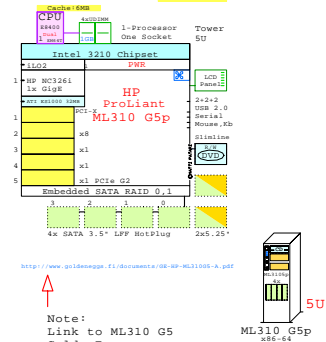
<http://www.goldeneggs.fi/documents/08-0P-ML150G6-A.pdf>



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>  
Link to SUN family: <http://www.goldeneggs.fi/documents/GE-SUN-FAMILY-A.pdf>

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HP 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

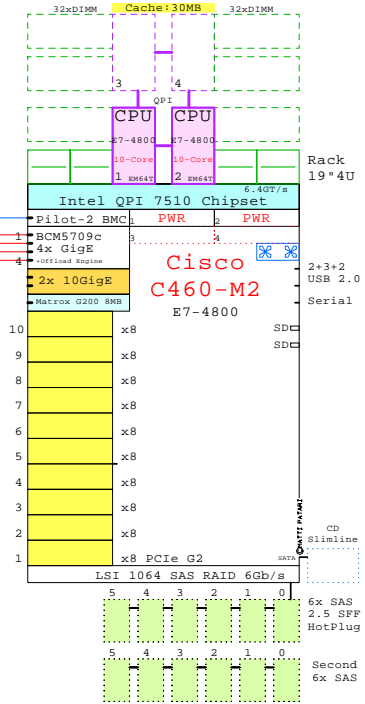
Intel Xeon X5680 x86-64  
3330MHz 2P-Six-C **CISCO-C210-M2a**

Xeon 2P-1U

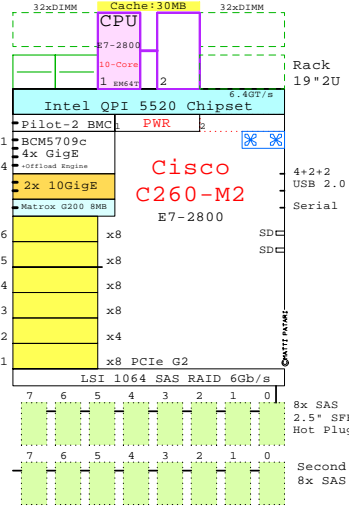
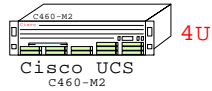
Intel Xeon X5680 x86-64  
3330MHz 2P-Six-C **CISCO-C200-M2a**

4x 1GbE

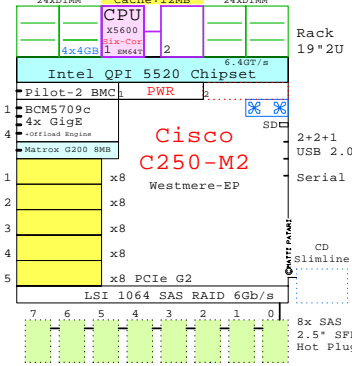
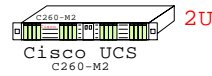
Remote Manager



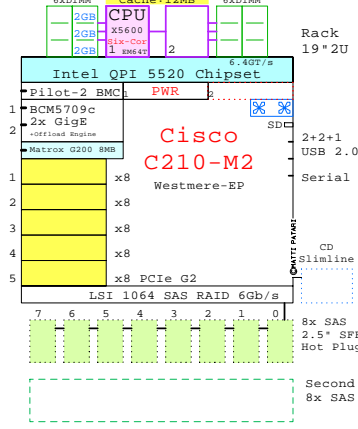
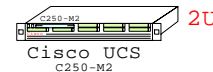
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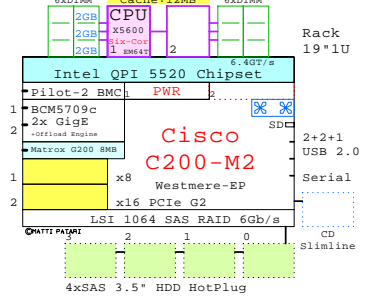
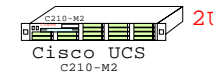
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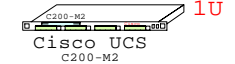
<http://www.goldeneggs.fi/documents/GE-CISCO-C250M2-A.pdf>



<http://www.goldeneggs.fi/documents/GE-CISCO-C210M2-A.pdf>



<http://www.goldeneggs.fi/documents/GE-CISCO-C200M2-A.pdf>



↑ 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>
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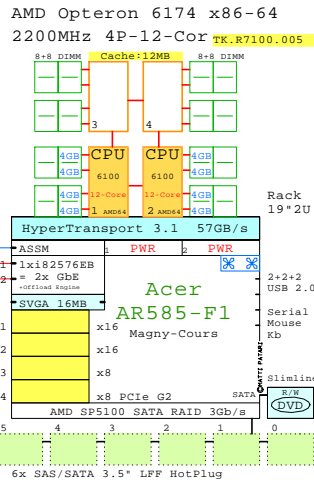
Cisco UCS x86 Server 4P,2P Intel  
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# Acer x86 Server Family

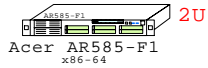
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## Acer Rack Servers

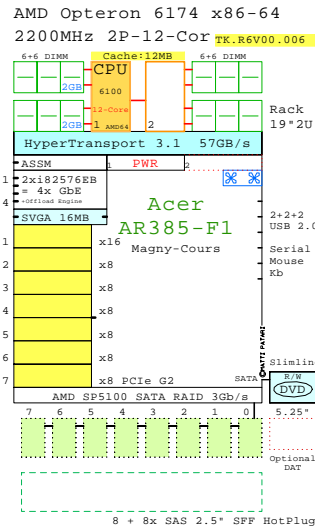
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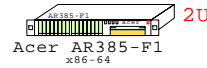
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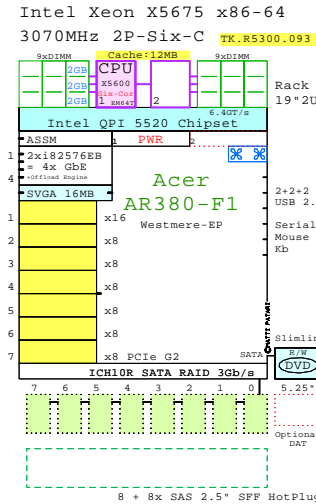
### Opteron 2P-2U



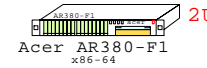
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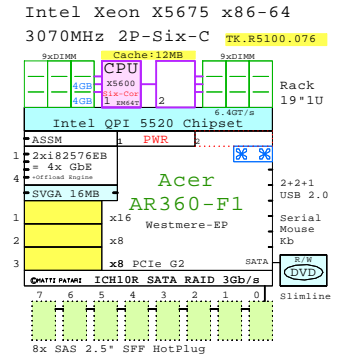
### Xeon 2P-2U



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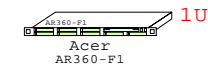


### Xeon 2P-1U



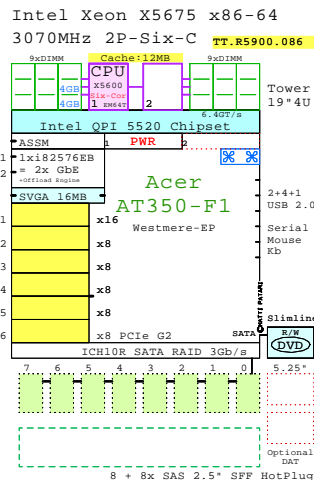
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↑ Link to AR360-F1  
Detail-Document

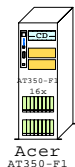


## Acer Tower Servers

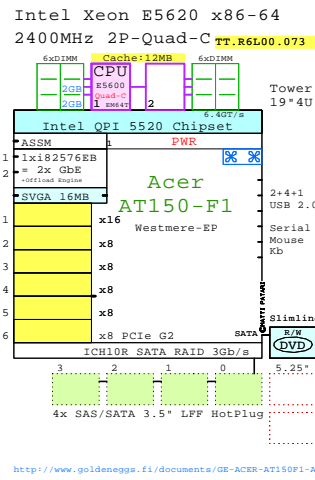
### Xeon 2P-4U



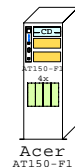
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### Xeon 2P-4U



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



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- <http://www.goldeneggs.fi/documents/GE-FUJI-FAMILY-A.pdf>
- <http://www.goldeneggs.fi/documents/GE-SUN-FAMILY-A.pdf>
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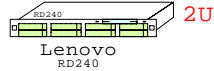
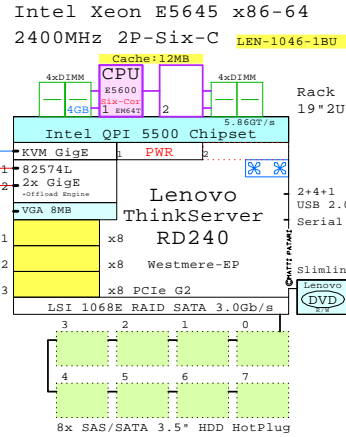
Acer x86 Server 4P,2P AMD,Intel  
GOLDEN EGGS Visuals, Helsinki

# Lenovo x86 Server Family

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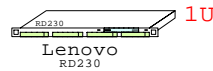
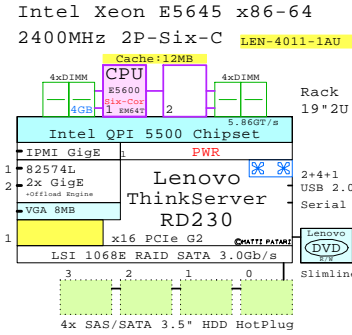
## Lenovo Rack Servers

### 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>

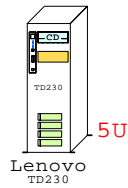
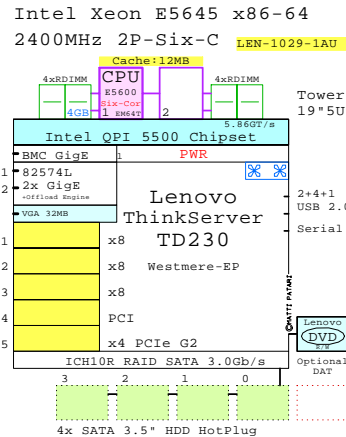
↑ Link to RD230 Detail-Document

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

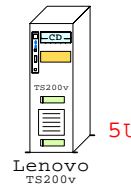
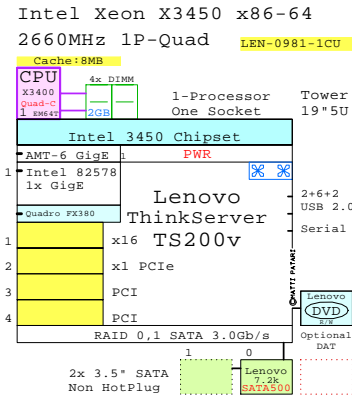
## Lenovo Tower Servers

### 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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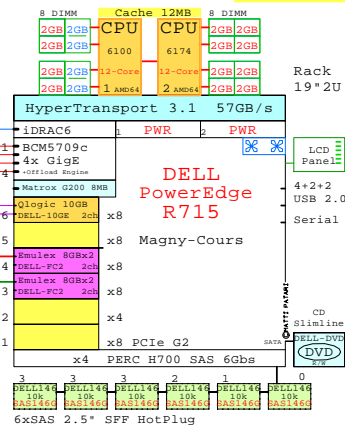
<http://www.goldeneggs.fi>

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

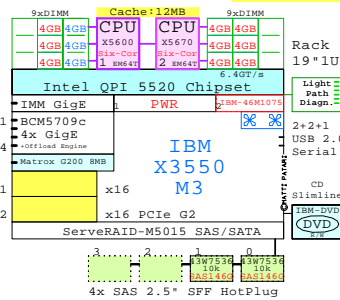
2200MHz 2P 12-Cor **DELL-R715-Axx**



2x 8Gb Fibre Channel to external storage

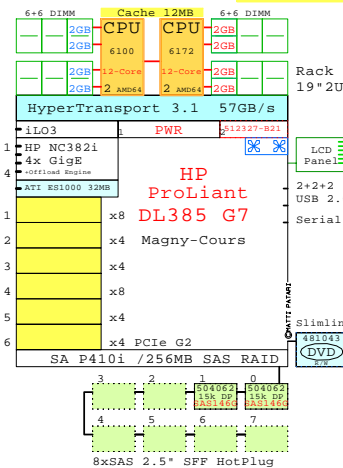
Intel Xeon X5670 x86-64

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



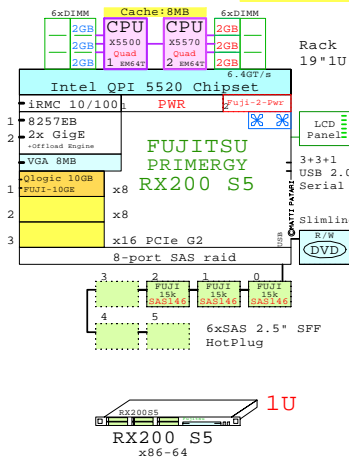
AMD Opteron 6172 x86-64

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



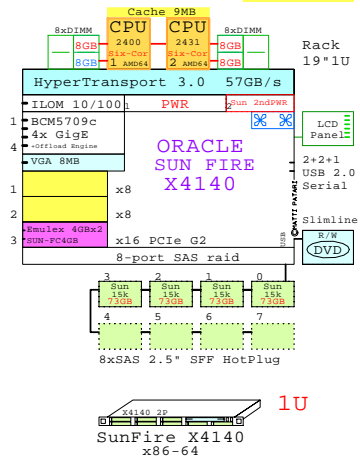
Intel Xeon X5570 x86-64

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-FUJII-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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GE-links to x86 COMPARE Pictures:

- <http://www.goldeneggs.fi/documents/GE-COMPARE-2P-1U-A.pdf>
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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>

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