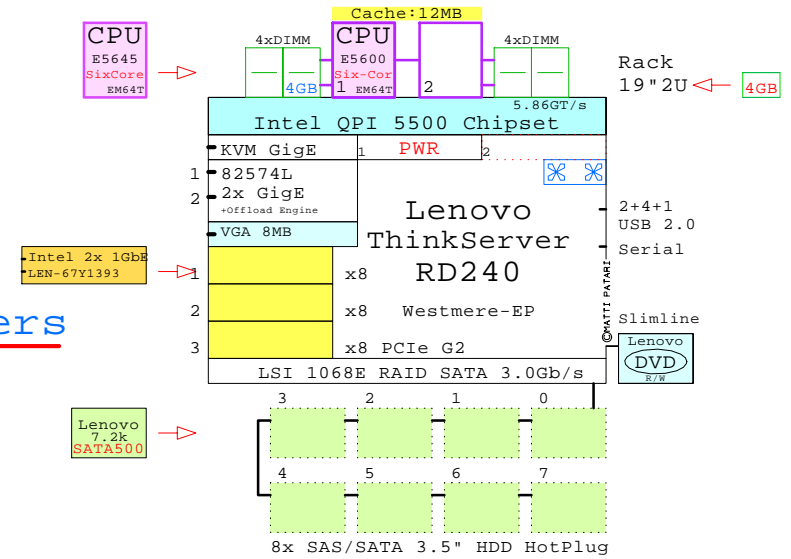


# GOLDEN EGGS

## Visual Cook Book for: Lenovo X86-64 Servers

- 1 - Lenovo Server Family Map
- Rack Servers:
- 2 - RD230 Intel Xeon 2P 1U
- 3 - RD240 Intel Xeon 2P 2U
- Tower Servers:
- 6 - TS200v Intel Xeon 1P 5U
- 7 - TD230 Intel Xeon 2P 5U

Westmere-EP  
 Intel Xeon E5645 x86-64  
 2400MHz 2P-Six-C LEN-1046-1BU



This is a collection of Lenovo 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

Golden Eggs Home:  
<http://www.goldeneggs.fi>

GE-LENOVO-BOOK-2011.pdf

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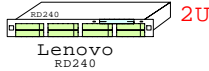
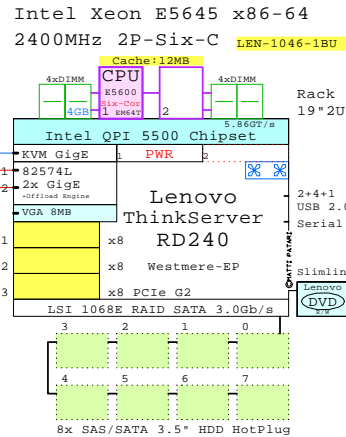
GOLDEN EGGS Visuals™ Helsinki	01-Jul-2011	GE-LENOVO-X86A
	Matti.Patari@Kolumbus.Fi	

# Lenovo x86 Server Family

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

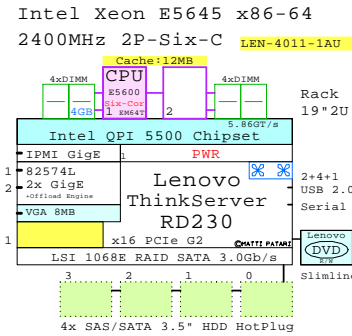
## Lenovo Rack Servers

### 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>

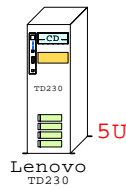
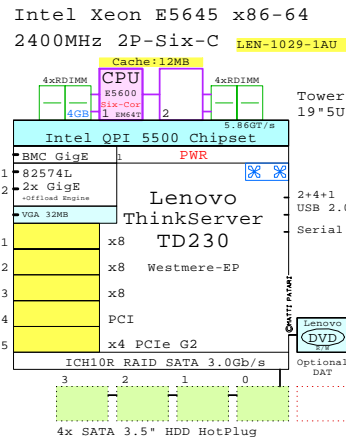
↑ Link to RD230 Detail-Document

### 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-CISCO-FAMILY-A.pdf>

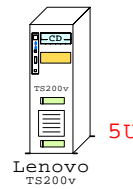
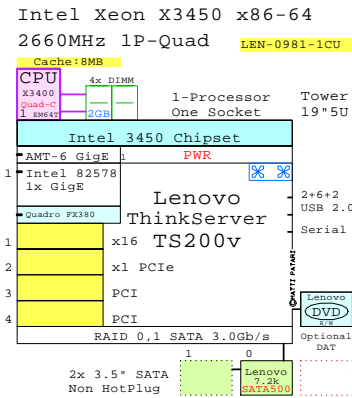
## Lenovo Tower Servers

### 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>

Created by:  
Matti.Patari@Kolumbus.Fi  
Helsinki

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

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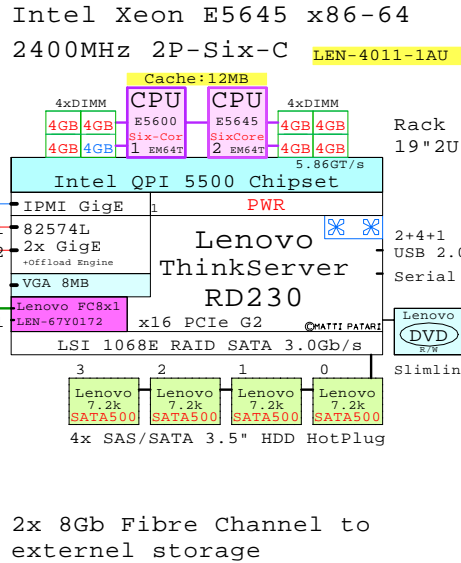
GOLDEN EGGS Visuals Helsinki	03-May-2011	GE-LENOVO-FAMILY-A
		Matti.Patari@Kolumbus.fi

Lenovo ThinkServer  
RD230  
Xeon 5600

Internal Options:

- LEN-0A89395  
2nd Six-Core E5645  
2400MHz 12MB
- LEN-67Y1432  
2GB DDR3-RDIMM  
1x 2GB RDIMM
- LEN-67Y1433  
4GB DDR3-RDIMM
- LEN-67Y1464  
8GB DDR3-RDIMM
- LEN-67Y1400  
250GB 7.2k SATA 3.5"
- LEN-67Y1401  
500GB 7.2k SATA 3.5"
- LEN-67Y1402  
1TB 7.2k SATA 3.5"
- LEN-67Y2642  
2TB 7.2k SATA 3.5"
- LEN-67Y1393  
Intel 2x 1GbE  
1GbE 2ch LAN Adapter
- LEN-67Y2622  
Lenovo RAID  
SAS RAID 8-Port
- LEN-67Y0172  
Lenovo FC8x1  
FC 8Gb 1ch HBA
- LEN-67Y0173  
Lenovo FC8x2  
FC 8Gb 2ch HBA

Two Sockets, 1U  
Example Configuration  
x86-64



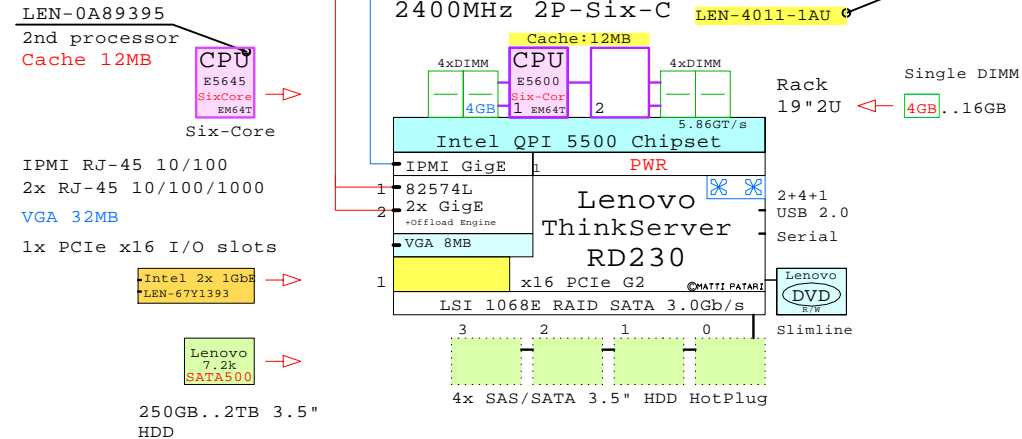
Parts list for the 2P Six-Core Lenovo RD230 system above

Part Number	Qty	Description
1	LEN-4011-1A	1 Lenovo RD230 2P I 6C E5645-12MB 4GB 1U
1.1	LEN-0A89395	1 Lenovo Xeon 6C E5645-12MB 2.4GHz RD230
1.2	LEN-67Y0172	1 Lenovo Qlog FC 8Gb 1-ch PCIe HBA
1.3	LEN-67Y1401	4 Lenovo 500GB SATA 7.2K 3.5" Disk
1.4	LEN-67Y1433	7 Lenovo 4GB Mem 1x4GB RDIMM TD230

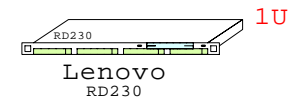
For more info:  
<http://www.lenovo.com/psref/pdf/svbook.pdf>

Lenovo ThinkServer RD230 Six-Core 2P/1U

Westmere-EP  
Six-Core  
2400MHz  
5600



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



MS Windows Server 2003 and 2008 R2  
Linux: Red Hat, SuSE  
VMware Virtualization Software  
Hyper-V

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

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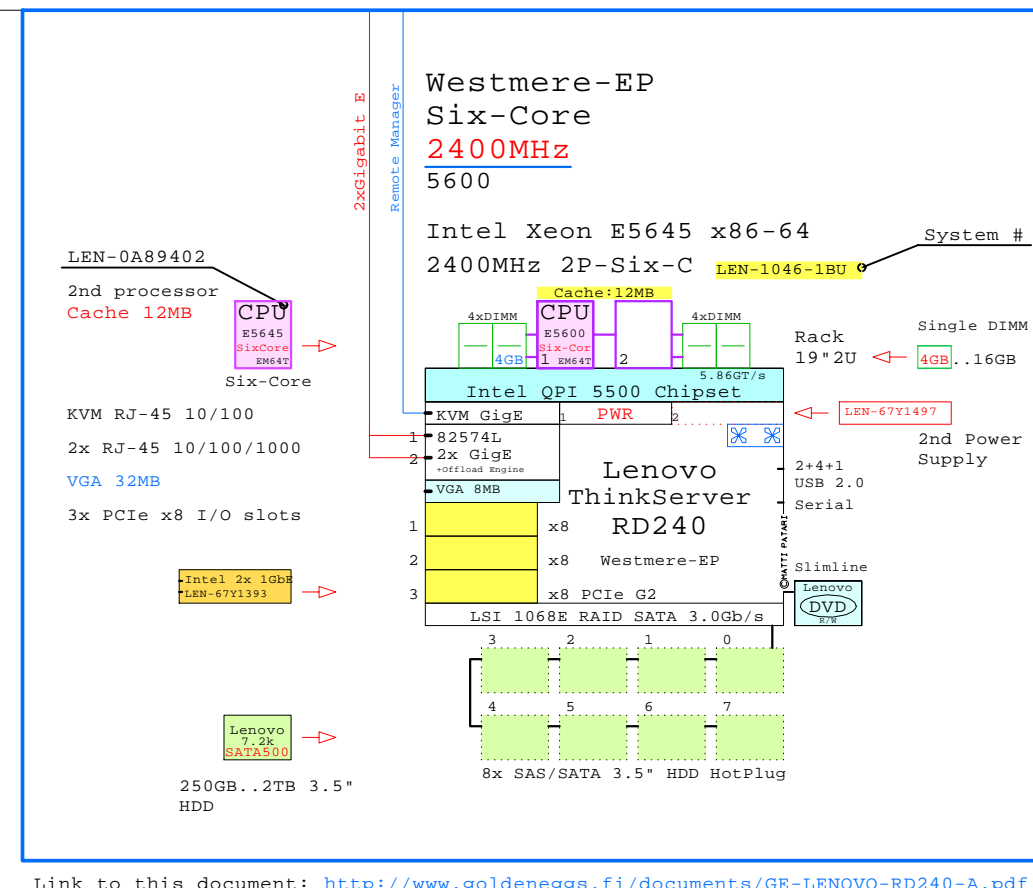
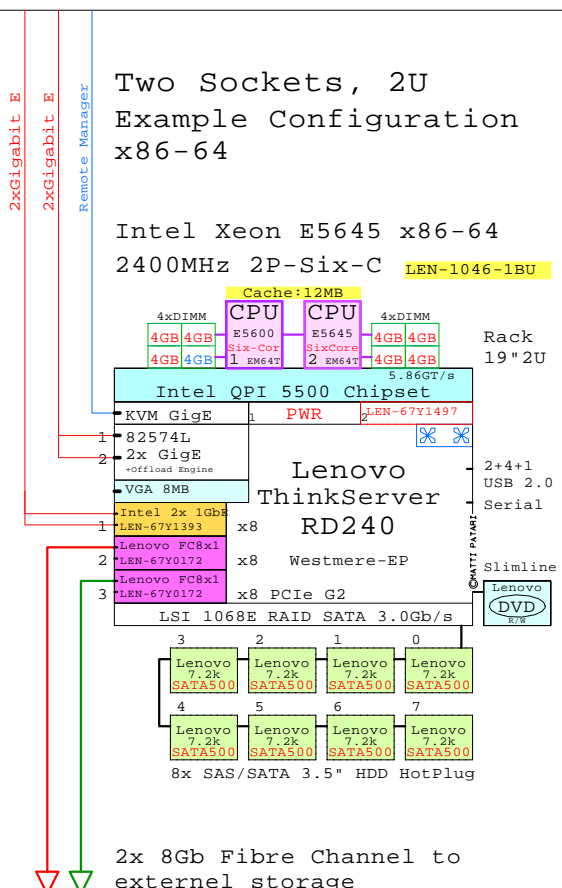
GOLDEN EGGS Visuals™ Helsinki	20-Mar-2011	GE-LENOVO-RD230-A Matti.Patari@Kolumbus.Fi
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Lenovo RD230 2P/1U E5645 2400MHz  
GOLDEN EGGS Visuals, Helsinki

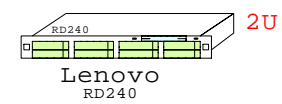
Lenovo ThinkServer  
RD240  
Xeon 5600

Internal Options:

- LEN-0A89402  
CPU  
E5645  
Six-Core  
E5647  
2nd Six-Core E5645  
2400MHz 12MB
- LEN-67Y1432  
2GB  
DDR3-RDIMM  
1x 2GB RDIMM
- LEN-67Y1433  
4GB  
DDR3-RDIMM  
1x 4GB RDIMM
- LEN-67Y1464  
8GB  
DDR3-RDIMM  
1x 8GB RDIMM
- LEN-67Y1497  
2nd Power Supply
- LEN-67Y1400  
Lenovo 7.2k SATA250  
250GB 7.2k SATA 3.5"
- LEN-67Y1401  
Lenovo 7.2k SATA500  
500GB 7.2k SATA 3.5"
- LEN-67Y1402  
Lenovo 7.2k SATA1TB  
1TB 7.2k SATA 3.5"
- LEN-67Y2642  
Lenovo 7.2k SATA2TB  
2TB 7.2k SATA 3.5"
- LEN-67Y1393  
Intel 2x 1GbE  
LEN-67Y1393  
1GbE 2ch LAN Adapter
- LEN-67Y2622  
Lenovo RAID  
LEN-67Y2622  
SAS RAID 8-Port
- LEN-67Y0172  
Lenovo FC8x1  
LEN-67Y0172  
FC 8Gb 1ch HBA
- LEN-67Y0173  
Lenovo FC8x2  
LEN-67Y0173  
FC 8Gb 2ch HBA



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



MS Windows Server 2003 and 2008 R2  
LINUX: Red Hat, SuSE  
VMware Virtualization Software  
Hyper-V

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

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Parts list for the 2P Six-Core Lenovo RD240 system above

	Part Number	Qty	Description
1	LEN-1046-1B	1	Lenovo RD240 2P I 6C E5645-12MB 4GB 2U
1.1	LEN-0A89402	1	Lenovo Xeon 6C E5645-12MB 2.4GHz RD240
1.2	LEN-67Y0172	2	Lenovo Qlog FC 8Gb 1-ch PCIe HBA
1.3	LEN-67Y1393	1	Lenovo 1000PT 2x 1GbE server adapter
1.4	LEN-67Y1401	8	Lenovo 500GB SATA 7.2K 3.5" Disk
1.5	LEN-67Y1433	7	Lenovo 4GB Mem 1x4GB RDIMM TD230
1.6	LEN-67Y1497	1	Lenovo RD240 second power supply

For more info:  
<http://www.lenovo.com/psref/pdf/svbook.pdf>

Lenovo ThinkServer RD240 Six-Core 2P/2U

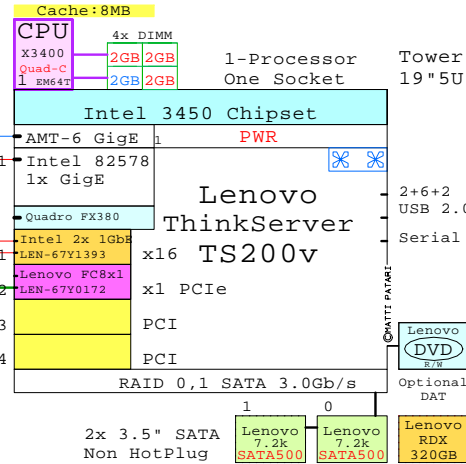
GOLDEN EGGS Visuals™ Helsinki	20-Mar-2011	GE-LENOVO-RD240-A
		Matti.Patari@Kolumbus.Fi
Lenovo RD240 2P/2U E5645 2400MHz GOLDEN EGGS Visuals, Helsinki		

Lenovo ThinkServer  
TS200v  
Xeon E3450

Internal Options:

One Sockets, 5U  
Example Configuration  
x86-64

Intel Xeon X3450 x86-64  
2660MHz 1P-Quad **LEN-0981-1CU**



1x 8Gb Fibre Channel to external storage

- 1GB → LEN-67Y1387  
DDR3-DIMM  
1x 1GB DIMM
- 2GB → LEN-67Y1388  
DDR3-DIMM  
1x 2GB DIMM
- 4GB → LEN-67Y1389  
DDR3-DIMM  
1x 4GB DIMM
- Lenovo 7.2k SATA250 → LEN-67Y1400  
250GB 7.2k SATA 3.5"
- Lenovo 7.2k SATA500 → LEN-67Y1401  
500GB 7.2k SATA 3.5"
- Lenovo 7.2k SATA1TB → LEN-67Y1402  
1TB 7.2k SATA 3.5"
- Lenovo RDX 320GB → LEN-67Y1396  
RDX tape USB
- Intel 2x 1GbE → LEN-67Y1393  
1GbE 2ch LAN Adapter
- Lenovo RAID → LEN-67Y2622  
SAS RAID 8-Port
- Lenovo FC8x1 → LEN-67Y0172  
FC 8Gb 1ch HBA
- Lenovo FC8x2 → LEN-67Y0173  
FC 8Gb 2ch HBA

Parts list for the 1P Quad-Core Lenovo TS200v system above

Part Number	Qty	Description
<b>1</b>	<b>1</b>	<b>Lenovo TS200v 1P I QC X3450-8MB 2GB Towe</b>
1.1	1	Lenovo Qlog FC 8Gb 1-ch PCIe HBA
1.2	3	Lenovo 2GB Mem 1x2GB DDR3 TS200v
1.3	1	Lenovo 1000PT 2x 1GbE server adapter
1.4	1	Lenovo 320GB USB RDX drive
1.5	1	Lenovo 500GB SATA 7.2K 3.5" Disk

For more info:  
<http://www.lenovo.com/psref/pdf/svbook.pdf>

Lenovo ThinkServer TS200v Quad-Core 1P/5U

Xeon  
Quad-Core  
**2660MHz**

Intel Xeon X3450 x86-64  
2660MHz 1P-Quad **LEN-0981-1CU** System #

Single processor

AMT RJ-45 10/100

1x RJ-45 10/100/1000

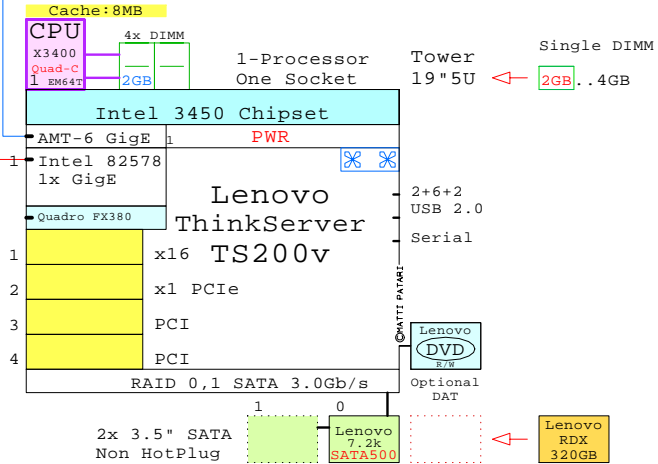
VGA 32MB

4x PCIe x8 I/O slots

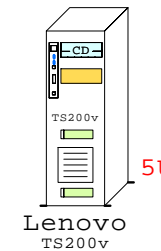
Intel 2x 1GbE →  
LEN-67Y1393

Lenovo →  
7.2k  
SATA500

500GB 3.5"  
HDD



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



MS Windows Server 2003 and 2008 R2  
LINUX: Red Hat, SuSE  
VMware Virtualization Software  
Hyper-V

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

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	Matti.Patari@Kolumbus.Fi	

Lenovo TS200v 1P/5U X3450 2660MHz  
GOLDEN EGGS Visuals, Helsinki

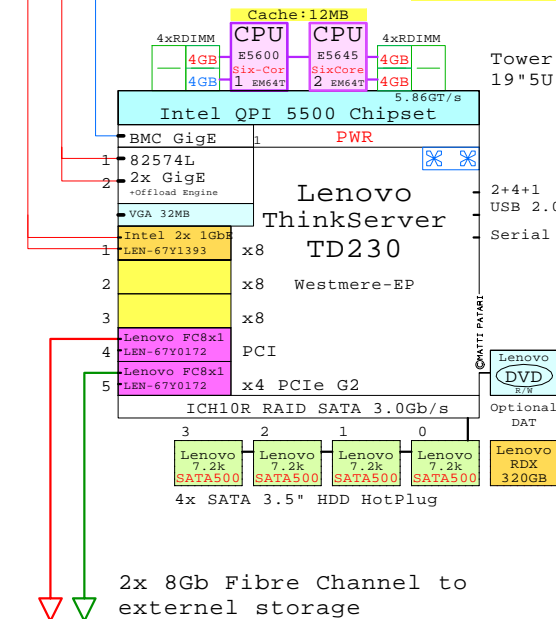
Lenovo ThinkServer  
TD230  
Xeon 5600

Internal Options:

- CPU** LEN-0A89388  
E5645  
SixCore  
EM64T  
2nd Six-Core E5645  
2400MHz 12MB
- 2GB** LEN-67Y1432  
DDR3-RDIMM  
1x 2GB RDIMM
- 4GB** LEN-67Y1433
- 8GB** LEN-67Y1464
- Lenovo 7.2k SATA500** LEN-67Y1400  
250GB 7.2k SATA 3.5"
- Lenovo 7.2k SATA500** LEN-67Y1401  
500GB 7.2k SATA 3.5"
- Lenovo 7.2k SATA1TB** LEN-67Y1402  
1TB 7.2k SATA 3.5"
- Lenovo RDX 320GB** LEN-67Y1396  
RDX tape USB
- Intel 2x 1Gb LEN-67Y1393**  
1GbE 2ch LAN Adapter
- Lenovo RAID LEN-67Y2622**  
SAS RAID 8-Port
- Lenovo FC8x1 LEN-67Y0172**  
FC 8Gb 1ch HBA
- Lenovo FC8x2 LEN-67Y0173**  
FC 8Gb 2ch HBA

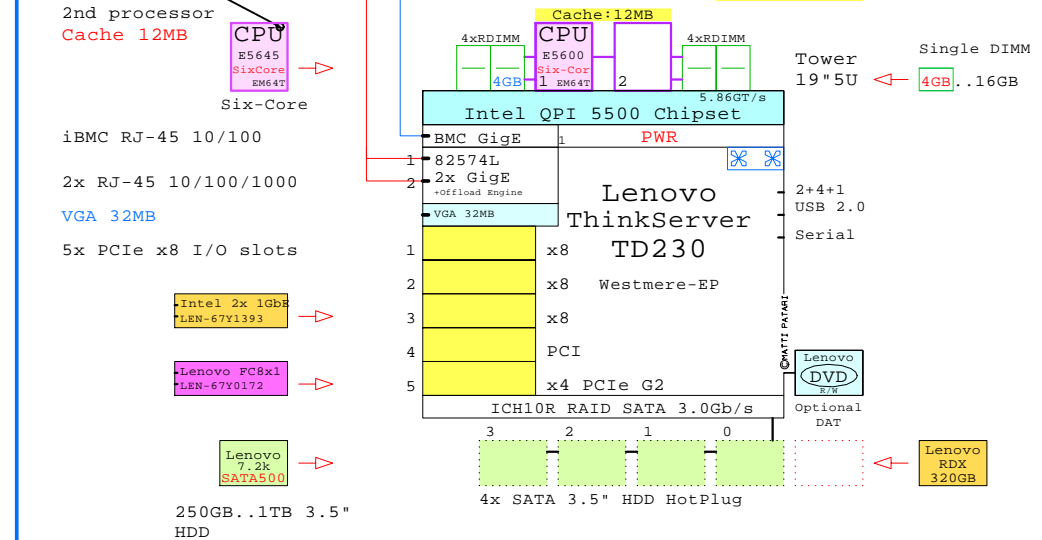
Two Sockets, 5U  
Example Configuration  
x86-64

Intel Xeon E5645 x86-64  
2400MHz 2P-Six-C LEN-1029-1AU

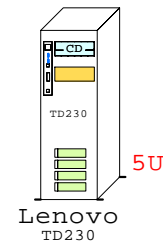


Westmere-EP  
Six-Core  
2400MHz  
5600

Intel Xeon E5645 x86-64  
2400MHz 2P-Six-C LEN-1029-1AU System #



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



MS Windows Server 2003 and 2008 R2  
LINUX: Red Hat, SuSE  
VMware Virtualization Software  
Hyper-V

Tip for detail printing:  
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- Print, Print Current View

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Parts list for the 2P Six-Core Lenovo TD230 system above

Part Number	Qty	Description
1	LEN-1029-1A	1 Lenovo TD230 2P I 6C E5645-12MB 4GB Towe
1.1	LEN-0A89388	1 Lenovo Xeon 6C E5645-12MB 2.4GHz TD230
1.2	LEN-67Y0172	2 Lenovo Qlog FC 8Gb 1-ch PCIe HBA
1.3	LEN-67Y1393	1 Lenovo 1000PT 2x 1GbE server adapter
1.4	LEN-67Y1396	1 Lenovo 320GB USB RDX drive
1.5	LEN-67Y1401	4 Lenovo 500GB SATA 7.2K 3.5" Disk
1.6	LEN-67Y1433	3 Lenovo 4GB Mem 1x4GB RDIMM TD230

For more info:  
<http://www.lenovo.com/psref/pdf/svbook.pdf>

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Lenovo TD230 2P/5U E5645 2400MHZ  
GOLDEN EGGS Visuals, Helsinki

Lenovo ThinkServer TD230 Six-Core 2P/5U

# Welcome to GoldenEggs Visual Configurations

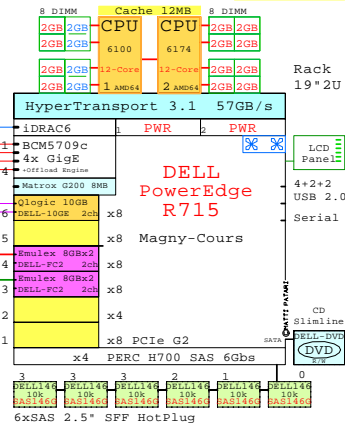
<http://www.goldeneggs.fi>

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

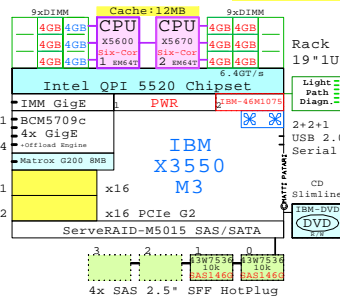
2200MHz 2P 12-Cor **DELL-R715-Axx**



2x 8Gb Fibre Channel to external storage

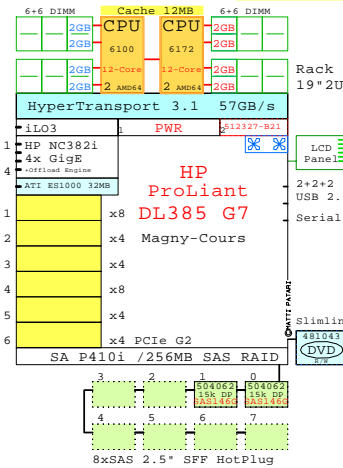
Intel Xeon X5670 x86-64

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



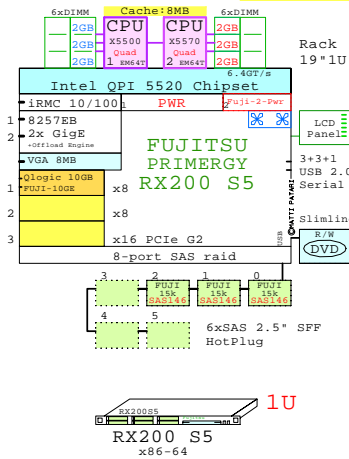
AMD Opteron 6172 x86-64

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



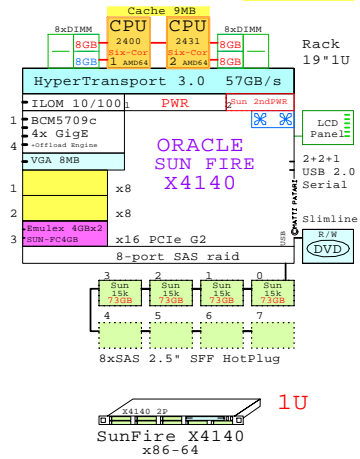
Intel Xeon X5570 x86-64

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



AMD Opteron 2431 x86-64

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



The present GoldenEggs multi vendor x86-64 website.

<http://www.goldeneggs.fi>

Older GoldenEggs are still available at:

DEC/Compaq/HP: VAX, Alpha, Storage and ProLiant Servers.

<http://h18000.www1.hp.com/info/GECPQA/>

OpenVMS.org: Alpha, Storage, ProLiant and Itanium Servers

<http://www.openvms.org/pages.php?page=GoldenEggs>

Matti.Patari@Kolumbus.Fi Helsinki,Finland

Your comments,improvements,are welcome.

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GE-links to x86 FAMILY Pictures:

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

GE-links to x86 COMPARE Pictures:

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