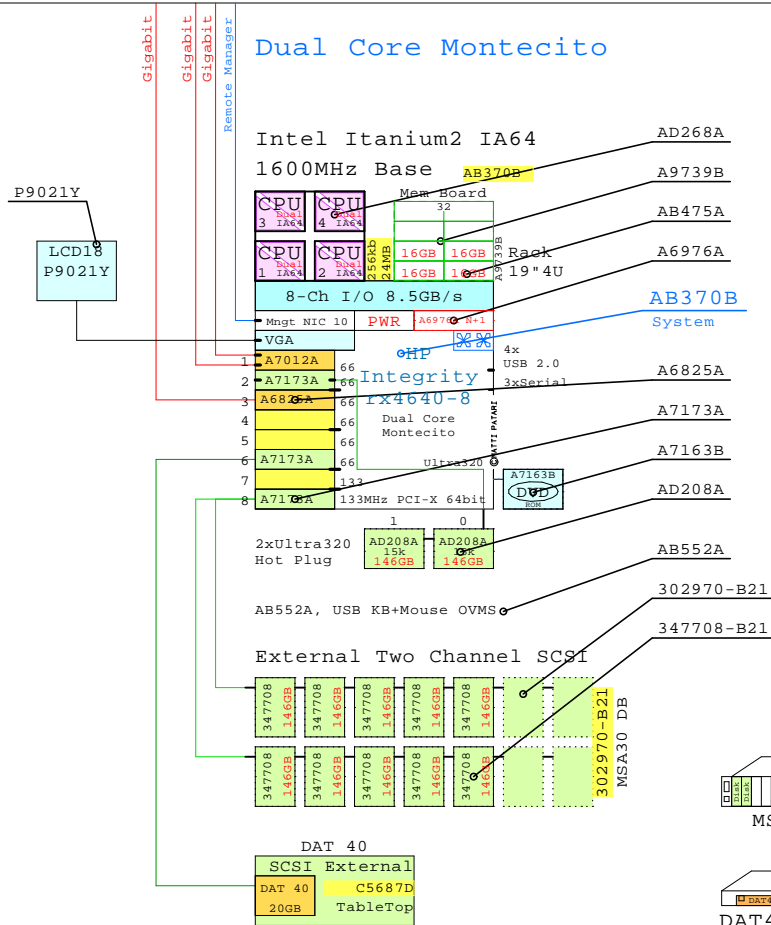


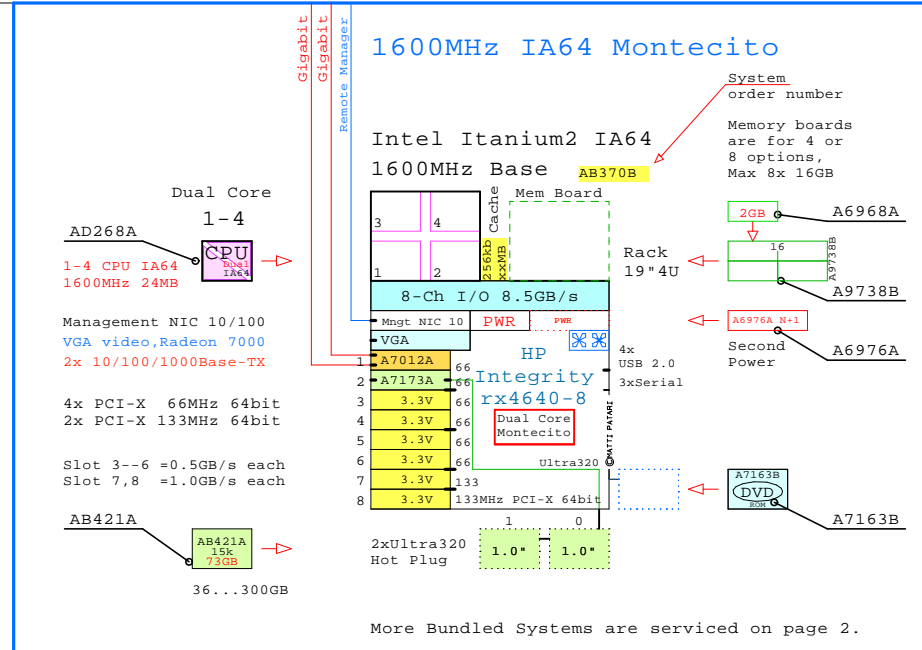
Internal Options:

- Dual Core**
- AD268A**
1-4 CPU IA64
1600MHz 24MB
- AD139A**
1-4 CPU IA64
1600MHz 18MB
- A6976A N+1**
2nd Power
- A6968A**
- 2GB** A6969A
- 4GB** A6970A
- 8GB** AB475A
- 16GB** DDR-SDRAM
4x DIMMs each
- 16** A9738B
- 32** A9739B
Memory board for
32 DIMMs =
8 Options
- AB421A** 1.0" AB421A
73GB 15k U320
- AD208A** 1.0" AD208A
146GB 15k U320
- AD261A** 1.0" AD261A
300GB 15k U320
- A7163B** DVD
DVD-ROM
- A6825A**
1000Base-TX HP-UX OVMS
Gigabit copper
- A7061A**
1000Base-TX Win Lin
Gigabit copper
- A5506B**
4-port 100Based-TX
HP-UX Lin OVMS
- A7173A**
Two Port HP-UX OVMS
Ultra320 SCSI Win Lin
- A6829A**
Two Port HP-UX
Ultra160 SCSI
- A9890A**
Smart Array 2-ch HP-UX
Ultra320 Win Lin OVMS
- A9890A 2-CH**
- A6826A**
FibreChannel OVMS Lin
2-ch PCI-X 2Gb/s
- A6795A**
2ch FibreChannel HP-UX
PCI 2Gb/s
- A6795A**

Dual Core Montecito



1600MHz IA64 Montecito



Parts list for the example rx4640 system above

Part Number	Qty	Description
1	AB370B	1 HP rx4640 Base, no CPU,Mem,Disk,CD
1.1	A6825A	1 1000Base-TX Gigabit copper HP-UX,OVMS
1.2	A6976A	1 2nd Power supply rx4640-8
1.3	A7163B	1 DVD-ROM read only rx4640
1.4	A7173A	2 Dual-port Ultra320 SCSI OpenVMS
1.5	A9739B	1 rx4640 32 DIMM memory board, 8 quads
1.5.1	AB475A	4 Memory HP rx4640 16GB DDR 4x4GB, quad
1.6	AD208A	2 146GB 15000r U320 Hot-Plug rx4640
1.7	AD268A	4 1.6GHz-24MB DC Itanium2 Processor rx4640
2	302970-B21	1 MSA30 Dual Buss Ultra320 7+7 1"
2.1	347708-B21	10 146.8GB 15000r U320 disk 1"
3	C5687D	1 HP DAT 40 20GB SCSI External TableTop
4	P9021Y	1 18.1 inch LCD flat panel display
5	AB552A	1 USB keyboard and USB scroll mouse OVMS

HP UX 11i version 2
Windows Server 2003 EE
Linux
OpenVMS V8.3

Golden Eggs home:
<http://goldeneggs.spyderbyte.com/>

<http://www.LinuxHPC.org>
<http://www.WinHPC.org>
<http://www.OpenVMS.org>

Your comments are appreciated.
Matti.Patari@Kolumbus.Fi GE-Painter.

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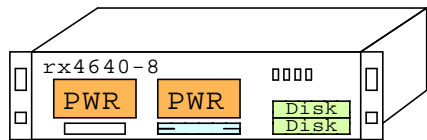
GOLDEN EGGS Visuals™ Helsinki	04-Dec-2006	GEJrx4640a
Matti.Patari@Kolumbus.fi		

HP Integrity rx4640 1600MHz IA64
GOLDEN EGGS Visuals, Helsinki

Storage hardware group and all other...
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For more detailed configuring, please consult the latest HP QuickSpecs.
Detailed configurations are serviced also at: <http://www.VisioCafe.com>
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Link to the most fresh version of this document:
<http://goldeneggs.spyderbyte.com/geggs/GErx4640x.pdf>



4U

rx4640
IA64

Gigabit

Gigabit

Remote Manager

1600MHz IA64 Montecito

Intel Itanium2 IA64
1600MHz Base **AB370B**

System
order number

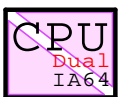
Memory boards
are for 4 or
8 options,
Max 8x 16GB

Dual Core

1-4

AD268A

1-4 CPU IA64
1600MHz 24MB

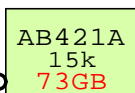


Management NIC 10/100
VGA video, Radeon 7000
2x 10/100/1000Base-TX

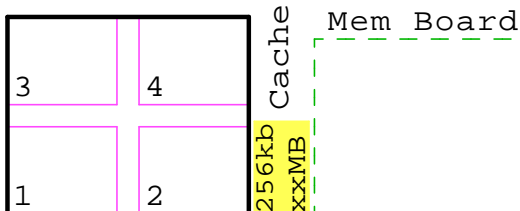
4x PCI-X 66MHz 64bit
2x PCI-X 133MHz 64bit

Slot 3--6 =0.5GB/s each
Slot 7,8 =1.0GB/s each

AB421A



36...300GB



8-Ch I/O 8.5GB/s

Mngt NIC 10

PWR

PWR

1 A7012A

2 A7173A

3 3.3V

4 3.3V

5 3.3V

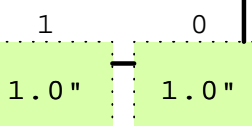
6 3.3V

7 3.3V

8 3.3V

133MHz PCI-X 64bit

2xUltra320
Hot Plug



HP
Integrity
rx4640-8

Dual Core
Montecito

Rack
19" 4U

4x
USB 2.0
3xSerial

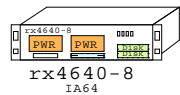
2GB A6968A

16 A9738B

A6976A N+1
Second
Power A6976A

A7163B
DVD
ROM A7163B

Golden Eggs home:
<http://goldeneggs.spyderbyte.com/>

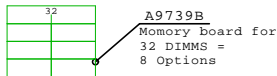


Internal Options:

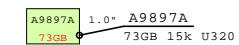
- A6976A 2nd Power
 - A6968A 2GB
 - A6969A 4GB
 - A6970A 8GB
 - AB475A 16GB
- DDR-SDRAM
4x DIMMs each



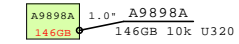
A9738B



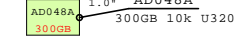
A9739B
Memory Board for
32 DIMMS =
8 Options



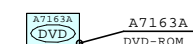
A9897A 1.0* A9897A
73GB 15k U320



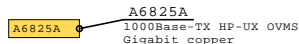
A9898A 1.0* A9898A
146GB 10k U320



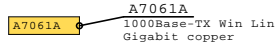
AD048A 1.0* AD048A
300GB 10k U320



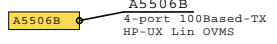
A7163A
DVD-ROM



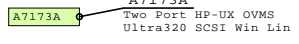
A6825A A6825A
1000Base-TX HP-UX OVMS
Gigabit copper



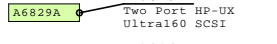
A7061A A7061A
1000Base-TX Win Lin
Gigabit copper



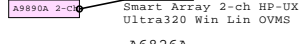
A5506B A5506B
4-port 1000Base-TX
HP-UX Lin OVMS



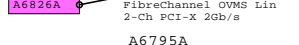
A7173A A7173A
Two Port HP-UX OVMS
Ultra320 SCSI Win Lin



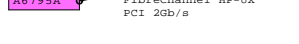
A6829A A6829A
Two Port HP-UX
Ultra160 SCSI



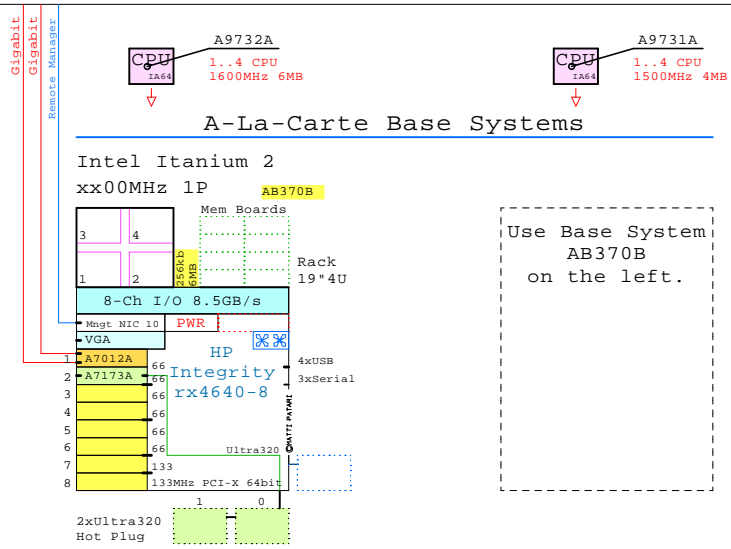
A9890A 2-C A9890A
Smart Array 2-ch HP-UX
Ultra320 Win Lin OVMS



A6826A A6826A
FibreChannel OVMS Lin
2-Ch PCI-X 2Gb/s



A6795A A6795A
FibreChannel HP-UX
PCI 2Gb/s



A-La-Carte Base Systems

Intel Itanium 2

xx00MHz 1P

AB370B

Use Base System
AB370B
on the left.

Bundled Base Systems

Intel Itanium 2

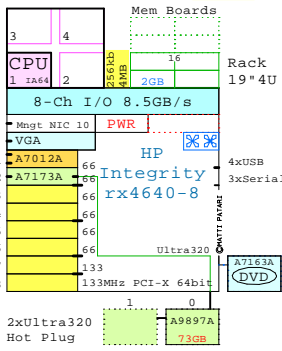
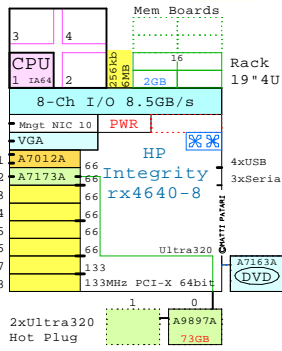
1600MHz 1P

AB532A

Intel Itanium 2

1500MHz 1P

AB530A



Intel Itanium 2

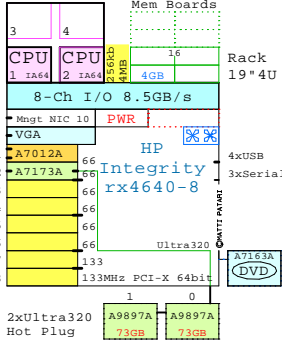
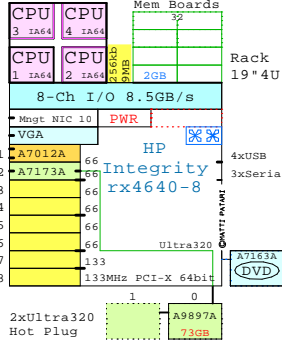
1600MHz 4P

AB533A

Intel Itanium 2

1500MHz 2P

AB531A



Rack and pedestal mounting options

- 1 A6939B Field rack kit for 19" wide cabinet
- 1 A6939AZ Factory integration of system in cabinet
- 1 A6940B Pedestal server mounting kit

OpenVMS Operating System

- 2 BA397AC HP VMS I64 EOE PPL LTU Max4 Sockt w/Sys
- 1 BA322AA #AJR HP VMS I64 FOE DVD Media
- 1 BA348AC HP C for VMS I64 Concurrent LTU
- 1 BA348AA HP C for VMS I64 Media
- 1 BA349AC HP C++ for VMS I64 Concurrent LTU
- 1 BA349AA HP C++ for VMS I64 Media
- 1 BA368AC HP Fortran for VMS I64 Concurrent LTU
- 1 BA368AA HP Fortran for VMS I64 Media
- 1 BA360AA HP Disk File Opt VMS I64 Media
- 2 BA360AC HP Disk File Opt VMS I64 PPL LTU
- 1 BA421AA HP Volume Shadowing VMS I64 Media
- 2 BA413AC HP Volume Shadowing VMS I64 PPL LTU

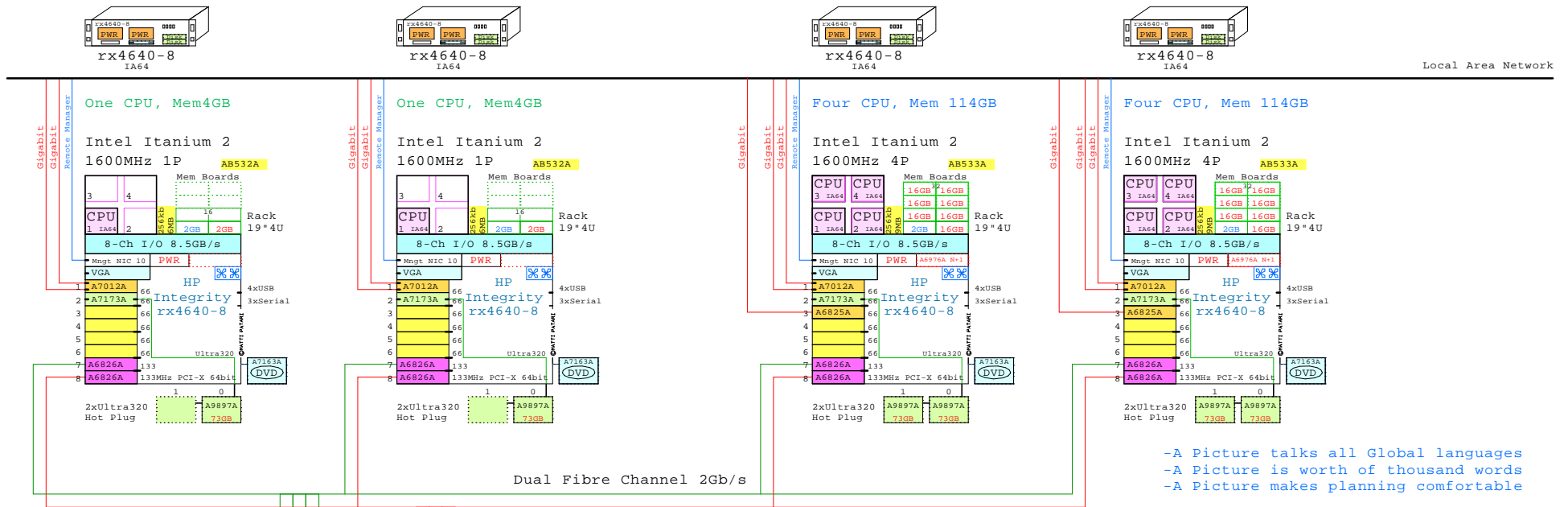
For Golden Eggs:
<http://www.LinuxHPC.org>
<http://www.WindowsHPC.org>
<http://www.OpenVMS.org>

When this diagram has supported your planning process, please let me know. Your comments are appreciated. Matti.Patari@Kolumbus.Fi GE-Architect.

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Integrity rx4640-8 MSA1000 Cluster



-A Picture talks all Global languages
 -A Picture is worth of thousand words
 -A Picture makes planning comfortable

Rack and pedestal mounting options

- 1 A6939B Field rack kit for 19" wide cabinet
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OpenVMS Operating System

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- 1 BA348AA HP C for VMS I64 Media
- 1 BA349AC HP C++ for VMS I64 Concurrent LTU
- 1 BA349AA HP C++ for VMS I64 Media
- 1 BA368AC HP Fortran for VMS I64 Concurrent LTU
- 1 BA368AA HP Fortran for VMS I64 Media
- 1 BA360AA HP Disk File Opt VMS I64 Media
- 2 BA360AC HP Disk File Opt VMS I64 PPL LTU
- 1 BA421AA HP Volume Shadowing VMS I64 Media
- 2 BA413AC HP Volume Shadowing VMS I64 PPL LTU

For Golden Eggs:
<http://www.LinuxHPC.org>
<http://www.WindowsHPC.org>
<http://www.OpenVMS.org>

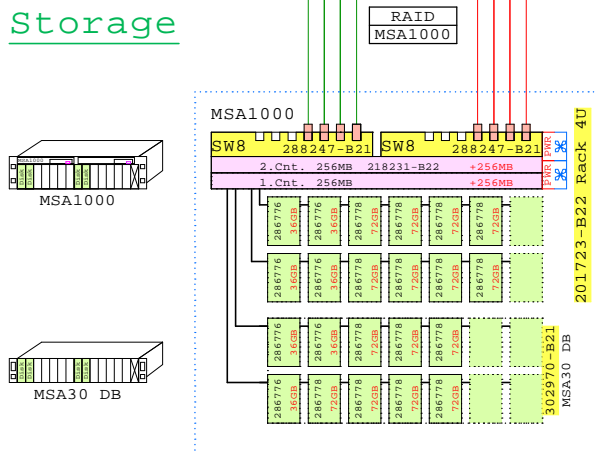
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 Matti.Patari@Kolumbus.Fi GE-Architect.

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GOLDEN EGGS Visuals™ Helsinki	27-Nov-2005	GTJrx4640c Matti.Patari@Kolumbus.fi
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Integrity rx4640 MSA1000 Cluster
 GOLDEN EGGS Visuals, Helsinki

Storage



Parts list for One Server, Mem 4GB, Left

Part Number	Qty	Description
1	AB532A	1 HP rx4640-8 1P 1600MHz-6MB 2GB 1x73GB DV
1.1	A6826A	2 PCI-X 2Gb/s 2-ch FibreChan Lin OVMS
1.2	A6968A	1 Memory HP rx4640 2GB DDR 4x512MB, quad

Parts list for One Server, Mem 14GB, Right

Part Number	Qty	Description
1	AB533A	1 HP rx4640-8 4P 1600MHz-9MB 2GB 1x73GB DV
1.1	A6825A	1 1000Base-TX Gigabit copper HP-UX
1.2	A6826A	2 PCI-X 2Gb/s 2-ch FibreChan Lin OVMS
1.3	A6976A	1 2nd Power supply rx4640-8
1.4	A9897A	1 73GB 15000r U320 disk rx2600
1.5	AB475A	7 Memory HP rx4640 16GB DDR 4x4GB, quad

Parts list for the Shared Storage

Part Number	Qty	Description
1	201723-B22	1 MSA1000 RAID Array 256MB Rack 4U
1.1	218231-B22	1 MSA1000 Redundant Controller 256MB
1.1.1	254786-B21	1 256MB cache module for Smart Array cntrl
1.2	254786-B21	1 256MB cache module for Smart Array cntrl
1.3	286776-B22	4 36GB 15000r U320 disk 1"
1.4	286778-B22	8 72.8GB 15000r U320 disk 1"
1.5	288247-B21	2 MSA1000 SAN Switch 2/8
1.6	302970-B21	1 MSA30 Dual Busn Ultra320 7+7 1"
1.6.1	286776-B22	3 36GB 15000r U320 disk 1"
1.6.2	286778-B22	7 72.8GB 15000r U320 disk 1"

Storage hardware page may vary. For more detailed configuring, please consult the latest HP QuickSpecs. Painted with Golden Eggs Software: 24-Nov-2005. All trademarks in this document are those of their owners.

rx4640-8 4P