

Dell PowerEdge 1950

Внешний вид

Вид спереди:



Вид сзади:



Внутренности

Девайсы

```
$ lspci
00:00.0 Host bridge: Intel Corporation 5000X Chipset Memory Controller Hub (rev 12)
00:02.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x4 Port 2 (rev 12)
00:03.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x4 Port 3 (rev 12)
00:04.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x8 Port 4-5 (rev 12)
00:05.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x4
```

Port 5 (rev 12)
00:06.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x8
Port 6-7 (rev 12)
00:07.0 PCI bridge: Intel Corporation 5000 Series Chipset PCI Express x4
Port 7 (rev 12)
00:10.0 Host bridge: Intel Corporation 5000 Series Chipset FSB Registers
(rev 12)
00:10.1 Host bridge: Intel Corporation 5000 Series Chipset FSB Registers
(rev 12)
00:10.2 Host bridge: Intel Corporation 5000 Series Chipset FSB Registers
(rev 12)
00:11.0 Host bridge: Intel Corporation 5000 Series Chipset Reserved
Registers (rev 12)
00:13.0 Host bridge: Intel Corporation 5000 Series Chipset Reserved
Registers (rev 12)
00:15.0 Host bridge: Intel Corporation 5000 Series Chipset FBD Registers
(rev 12)
00:16.0 Host bridge: Intel Corporation 5000 Series Chipset FBD Registers
(rev 12)
00:1c.0 PCI bridge: Intel Corporation 631xESB/632xESB/3100 Chipset PCI
Express Root Port 1 (rev 09)
00:1d.0 USB Controller: Intel Corporation 631xESB/632xESB/3100 Chipset UHCI
USB Controller #1 (rev 09)
00:1d.1 USB Controller: Intel Corporation 631xESB/632xESB/3100 Chipset UHCI
USB Controller #2 (rev 09)
00:1d.2 USB Controller: Intel Corporation 631xESB/632xESB/3100 Chipset UHCI
USB Controller #3 (rev 09)
00:1d.3 USB Controller: Intel Corporation 631xESB/632xESB/3100 Chipset UHCI
USB Controller #4 (rev 09)
00:1d.7 USB Controller: Intel Corporation 631xESB/632xESB/3100 Chipset EHCI
USB2 Controller (rev 09)
00:1e.0 PCI bridge: Intel Corporation 82801 PCI Bridge (rev d9)
00:1f.0 ISA bridge: Intel Corporation 631xESB/632xESB/3100 Chipset LPC
Interface Controller (rev 09)
00:1f.1 IDE interface: Intel Corporation 631xESB/632xESB IDE Controller (rev
09)
01:00.0 RAID bus controller: LSI Logic / Symbios Logic MegaRAID SAS 1078
(rev 04)
02:00.0 PCI bridge: Broadcom EPB PCI-Express to PCI-X Bridge (rev c3)
03:00.0 Ethernet controller: Broadcom Corporation NetXtreme II BCM5708
Gigabit Ethernet (rev 12)
04:00.0 PCI bridge: Intel Corporation 6311ESB/6321ESB PCI Express Upstream
Port (rev 01)
04:00.3 PCI bridge: Intel Corporation 6311ESB/6321ESB PCI Express to PCI-X
Bridge (rev 01)
05:00.0 PCI bridge: Intel Corporation 6311ESB/6321ESB PCI Express Downstream
Port E1 (rev 01)
05:01.0 PCI bridge: Intel Corporation 6311ESB/6321ESB PCI Express Downstream
Port E2 (rev 01)
06:00.0 PCI bridge: Broadcom EPB PCI-Express to PCI-X Bridge (rev c3)
07:00.0 Ethernet controller: Broadcom Corporation NetXtreme II BCM5708

Gigabit Ethernet (rev 12)

0e:0d.0 VGA compatible controller: ATI Technologies Inc ES1000 (rev 02)

Память

Разъемов на материнской плате: 8 шт, максимальный объем 32 Гб

Тип памяти: FB-DIMM (DDR2)

Всего 12 Гб:

- 2 x Nanya 2GB Module DDR2 PC2-5300 CL=5 FULLY BUFFERED ECC DDR2-667 Dual Rank 1.8V 256Meg x 72 Mfr P/N NT2GT72U4NB1BN-3C
- 6 x 1 Gb KVR667D2D8F5/1G (уточнить)

```
$ sudo dmidecode --type 17
```

```
# dmidecode 2.9
```

```
SMBIOS 2.5 present.
```

```
Handle 0x1100, DMI type 17, 28 bytes
```

```
Memory Device
```

```
Array Handle: 0x1000
```

```
Error Information Handle: Not Provided
```

```
Total Width: 72 bits
```

```
Data Width: 64 bits
```

```
Size: 2048 MB
```

```
Form Factor: FB-DIMM
```

```
Set: 1
```

```
Locator: DIMM1
```

```
Bank Locator: Not Specified
```

```
Type: DDR2 FB-DIMM
```

```
Type Detail: Synchronous
```

```
Speed: 667 MHz (1.5 ns)
```

```
Manufacturer: 830B8089830B
```

```
Serial Number: EE7B1A45
```

```
Asset Tag: 110811
```

```
Part Number: NT2GT72U4NB1BN-3C
```

```
Handle 0x1101, DMI type 17, 28 bytes
```

```
Memory Device
```

```
Array Handle: 0x1000
```

```
Error Information Handle: Not Provided
```

```
Total Width: 72 bits
```

```
Data Width: 64 bits
```

```
Size: 2048 MB
```

```
Form Factor: FB-DIMM
```

```
Set: 1
```

```
Locator: DIMM2
```

```
Bank Locator: Not Specified
```

```
Type: DDR2 FB-DIMM
```

Type Detail: Synchronous
Speed: 667 MHz (1.5 ns)
Manufacturer: 830B8089830B
Serial Number: D47C1A42
Asset Tag: 110811
Part Number: NT2GT72U4NB1BN-3C

Handle 0x1102, DMI type 17, 28 bytes

Memory Device

Array Handle: 0x1000
Error Information Handle: Not Provided
Total Width: 72 bits
Data Width: 64 bits
Size: No Module Installed
Form Factor: FB-DIMM
Set: 2
Locator: DIMM3
Bank Locator: Not Specified
Type: DDR2 FB-DIMM
Type Detail: Synchronous
Speed: Unknown
Manufacturer:
Serial Number:
Asset Tag:
Part Number:

Handle 0x1103, DMI type 17, 28 bytes

Memory Device

Array Handle: 0x1000
Error Information Handle: Not Provided
Total Width: 72 bits
Data Width: 64 bits
Size: No Module Installed
Form Factor: FB-DIMM
Set: 2
Locator: DIMM4
Bank Locator: Not Specified
Type: DDR2 FB-DIMM
Type Detail: Synchronous
Speed: Unknown
Manufacturer:
Serial Number:
Asset Tag:
Part Number:

Handle 0x1104, DMI type 17, 28 bytes

Memory Device

Array Handle: 0x1000
Error Information Handle: Not Provided
Total Width: 72 bits
Data Width: 64 bits

Size: No Module Installed
Form Factor: FB-DIMM
Set: 3
Locator: DIMM5
Bank Locator: Not Specified
Type: DDR2 FB-DIMM
Type Detail: Synchronous
Speed: Unknown
Manufacturer:
Serial Number:
Asset Tag:
Part Number:

Handle 0x1105, DMI type 17, 28 bytes

Memory Device

Array Handle: 0x1000
Error Information Handle: Not Provided
Total Width: 72 bits
Data Width: 64 bits
Size: No Module Installed
Form Factor: FB-DIMM
Set: 3
Locator: DIMM6
Bank Locator: Not Specified
Type: DDR2 FB-DIMM
Type Detail: Synchronous
Speed: Unknown
Manufacturer:
Serial Number:
Asset Tag:
Part Number:

Handle 0x1106, DMI type 17, 28 bytes

Memory Device

Array Handle: 0x1000
Error Information Handle: Not Provided
Total Width: 72 bits
Data Width: 64 bits
Size: No Module Installed
Form Factor: FB-DIMM
Set: 4
Locator: DIMM7
Bank Locator: Not Specified
Type: DDR2 FB-DIMM
Type Detail: Synchronous
Speed: Unknown
Manufacturer:
Serial Number:
Asset Tag:
Part Number:

Handle 0x1107, DMI type 17, 28 bytes

Memory Device

Array Handle: 0x1000
Error Information Handle: Not Provided
Total Width: 72 bits
Data Width: 64 bits
Size: No Module Installed
Form Factor: FB-DIMM
Set: 4
Locator: DIMM8
Bank Locator: Not Specified
Type: DDR2 FB-DIMM
Type Detail: Synchronous
Speed: Unknown
Manufacturer:
Serial Number:
Asset Tag:
Part Number:

Процессор

```
$ dmidecode -s processor-version
```

```
Intel(R) Xeon(R) CPU           E5410   @ 2.33GHz
Intel(R) Xeon(R) CPU           E5410   @ 2.33GHz
```

```
$ lscpu
```

```
Architecture:            x86_64
CPU op-mode(s):          32-bit, 64-bit
CPU(s):                  8
Thread(s) per core:      1
Core(s) per socket:      4
CPU socket(s):           2
NUMA node(s):            1
Vendor ID:               GenuineIntel
CPU family:              6
Model:                   23
Stepping:                 10
CPU MHz:                 2000.000
Virtualization:          VT-x
L1d cache:               32K
L1i cache:               32K
L2 cache:                6144K
```

```
$ lshw -class processor
```

```
*-cpu:0
```

```
description: CPU
product: Intel(R) Xeon(R) CPU           E5410   @ 2.33GHz
vendor: Intel Corp.
physical id: 400
```

```

bus info: cpu@0
version: Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
slot: CPU1
size: 2GHz
capacity: 3600MHz
width: 64 bits
clock: 1333MHz
capabilities: fpu fpu_exception wp vme de pse tsc msr pae mce cx8
apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss
ht tm pbe syscall nx x86-64 constant_tsc arch_perfmon pebs bts rep_good
aperfmpperf pni dtes64 monitor ds_cpl vmx est tm2 ssse3 cx16 xtpr pdcm dca
sse4_1 lahf_lm tpr_shadow vnmi flexpriority cpufreq
*-cpu:1
  description: CPU
  product: Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
  vendor: Intel Corp.
  physical id: 401
  bus info: cpu@1
  version: Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
  slot: CPU2
  size: 2GHz
  capacity: 3600MHz
  width: 64 bits
  clock: 1333MHz
  capabilities: fpu fpu_exception wp vme de pse tsc msr pae mce cx8
apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss
ht tm pbe syscall nx x86-64 constant_tsc arch_perfmon pebs bts rep_good
aperfmpperf pni dtes64 monitor ds_cpl vmx est tm2 ssse3 cx16 xtpr pdcm dca
sse4_1 lahf_lm tpr_shadow vnmi flexpriority cpufreq

$ cat /proc/cpuinfo
processor       : 0
vendor_id     : GenuineIntel
cpu family    : 6
model         : 23
model name    : Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
stepping      : 6
cpu MHz       : 2000.000
cache size    : 6144 KB
physical id   : 0
siblings      : 4
core id       : 0
cpu cores     : 4
apicid        : 0
initial apicid : 0
fpu           : yes
fpu_exception : yes
cpuid level   : 10
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx lm

```

```
constant_tsc arch_perfmon pebs bts rep_good aperfmperf pni dtes64 monitor
ds_cpl vmx est tm2 ssse3 cx16 xtpr pdcm dca sse4_1 lahf_lm tpr_shadow vnmi
flexpriority
bogomips      : 4654.85
clflush size  : 64
cache_alignment : 64
address sizes  : 38 bits physical, 48 bits virtual
power management:

processor      : 1
vendor_id     : GenuineIntel
cpu family    : 6
model         : 23
model name    : Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
stepping      : 10
cpu MHz       : 2000.000
cache size    : 6144 KB
physical id   : 1
siblings      : 4
core id       : 0
cpu cores     : 4
apicid        : 4
initial apicid : 4
fpu           : yes
fpu_exception : yes
cpuid level   : 10
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx lm
constant_tsc arch_perfmon pebs bts rep_good aperfmperf pni dtes64 monitor
ds_cpl vmx est tm2 ssse3 cx16 xtpr pdcm dca sse4_1 lahf_lm tpr_shadow vnmi
flexpriority
bogomips      : 4655.08
clflush size  : 64
cache_alignment : 64
address sizes  : 38 bits physical, 48 bits virtual
power management:

processor      : 2
vendor_id     : GenuineIntel
cpu family    : 6
model         : 23
model name    : Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
stepping      : 6
cpu MHz       : 2000.000
cache size    : 6144 KB
physical id   : 0
siblings      : 4
core id       : 2
cpu cores     : 4
apicid        : 2
```

```
initial apicid : 2
fpu            : yes
fpu_exception  : yes
cpuid level    : 10
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx lm
constant_tsc arch_perfmon pebs bts rep_good aperfmperf pni dtes64 monitor
ds_cpl vmx est tm2 ssse3 cx16 xtpr pdcm dca sse4_1 lahf_lm tpr_shadow vnmi
flexpriority
bogomips      : 4655.03
clflush size  : 64
cache_alignment : 64
address sizes  : 38 bits physical, 48 bits virtual
power management:

processor      : 3
vendor_id     : GenuineIntel
cpu family    : 6
model         : 23
model name    : Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
stepping      : 10
cpu MHz       : 2000.000
cache size    : 6144 KB
physical id   : 1
siblings      : 4
core id       : 2
cpu cores     : 4
apicid        : 6
initial apicid : 6
fpu           : yes
fpu_exception : yes
cpuid level   : 10
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx lm
constant_tsc arch_perfmon pebs bts rep_good aperfmperf pni dtes64 monitor
ds_cpl vmx est tm2 ssse3 cx16 xtpr pdcm dca sse4_1 lahf_lm tpr_shadow vnmi
flexpriority
bogomips      : 4655.06
clflush size  : 64
cache_alignment : 64
address sizes  : 38 bits physical, 48 bits virtual
power management:

processor      : 4
vendor_id     : GenuineIntel
cpu family    : 6
model         : 23
model name    : Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
stepping      : 6
```

```
cpu MHz      : 2000.000
cache size   : 6144 KB
physical id   : 0
siblings     : 4
core id      : 1
cpu cores    : 4
apicid       : 1
initial apicid : 1
fpu          : yes
fpu_exception : yes
cpuid level   : 10
wp           : yes
flags        : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx lm
constant_tsc arch_perfmon pebs bts rep_good aperfmperf pni dtes64 monitor
ds_cpl vmx est tm2 ssse3 cx16 xtpr pdcm dca sse4_1 lahf_lm tpr_shadow vnmi
flexpriority
bogomips     : 4655.05
clflush size  : 64
cache_alignment : 64
address sizes : 38 bits physical, 48 bits virtual
power management:
```

```
processor     : 5
vendor_id     : GenuineIntel
cpu family    : 6
model         : 23
model name    : Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
stepping      : 10
cpu MHz       : 2000.000
cache size    : 6144 KB
physical id    : 1
siblings      : 4
core id       : 1
cpu cores     : 4
apicid        : 5
initial apicid : 5
fpu           : yes
fpu_exception : yes
cpuid level    : 10
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx lm
constant_tsc arch_perfmon pebs bts rep_good aperfmperf pni dtes64 monitor
ds_cpl vmx est tm2 ssse3 cx16 xtpr pdcm dca sse4_1 lahf_lm tpr_shadow vnmi
flexpriority
bogomips     : 4655.05
clflush size  : 64
cache_alignment : 64
address sizes : 38 bits physical, 48 bits virtual
power management:
```

```
processor      : 6
vendor_id     : GenuineIntel
cpu family    : 6
model         : 23
model name    : Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
stepping      : 6
cpu MHz       : 2000.000
cache size    : 6144 KB
physical id    : 0
siblings      : 4
core id       : 3
cpu cores     : 4
apicid        : 3
initial apicid : 3
fpu           : yes
fpu_exception : yes
cpuid level   : 10
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx lm
constant_tsc arch_perfmon pebs bts rep_good aperfmperf pni dtes64 monitor
ds_cpl vmx est tm2 ssse3 cx16 xtpr pdcm dca sse4_1 lahf_lm tpr_shadow vnmi
flexpriority
bogomips      : 4655.02
clflush size  : 64
cache_alignment : 64
address sizes  : 38 bits physical, 48 bits virtual
power management:
```

```
processor      : 7
vendor_id     : GenuineIntel
cpu family    : 6
model         : 23
model name    : Intel(R) Xeon(R) CPU           E5410  @ 2.33GHz
stepping      : 10
cpu MHz       : 2000.000
cache size    : 6144 KB
physical id    : 1
siblings      : 4
core id       : 3
cpu cores     : 4
apicid        : 7
initial apicid : 7
fpu           : yes
fpu_exception : yes
cpuid level   : 10
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca
cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx lm
constant_tsc arch_perfmon pebs bts rep_good aperfmperf pni dtes64 monitor
ds_cpl vmx est tm2 ssse3 cx16 xtpr pdcm dca sse4_1 lahf_lm tpr_shadow vnmi
```

```
flexpriority
bogomips      : 4655.05
clflush size  : 64
cache_alignment : 64
address sizes  : 38 bits physical, 48 bits virtual
power management:
```

Батарейка для RAID-контроллера

Lithium-Ion Rechargeable Battery P9110 (FR463)

Rating: 3.7V
Capacity: 7W

Салазки

~~KF248 2.5" SAS Tray Caddy for Dell PowerEdge 1950~~ Заказаны тут:

http://bestofchina.ru/product/25_SAS_SATA_Hard_Drive_Tray_Caddy_for_Dell_KF248_PowerEdge_1900_1950_1955_2900_2950_2970_6900_6950_R610_Storage_Array_196427/

Драйвера

<http://www.dell.com/support/drivers/us/en/19/Product/poweredge-1950>

Фирменная спецификация

Owner Manual: [poweredge-1950_owner_s_manual_en-us.pdf](#)

Server Specs: [dell_1950_specs.pdf](#)

[dell](#), [poweredge](#), [1950](#), сервер, железо

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