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HP and Compaq Desktop PCs - Motherboard Specifications, N-Alvorix-RS880-uATX (Alvorix)

Figure 1: The N-Alvorix-RS880-uATX (Alvorix) motherboard

Motherboard description

Manufacturer's motherboard name: N-Alvorix-RS880-uATX (Alvorix)

HP/Compaq name: Alvorix

Form Factor

uATX form factor: 24.4cm (9.6 inches) x 24.4cm (9.6 inches).

Chipset

AMD 785G

Front-side bus speed

1333/1066/800MHz

Upgrade Information

Processor upgrade information

Max TDP: 95W

Motherboard supports the following processor upgrades:
NOTE:

Only Socket AM3 processors are supported with this motherboard.

AMD Phenom II X6 10xxT Six-Core (Thuban core)

AMD Phenom II X4 9xx/9xxe/8xx Quad-Core (Deneb core)

AMD Phenom II X3 7xx/7xxe Triple-Core (Heka core)

AMD Phenom II X2 5xx (Callisto core)

AMD Athlon X4 6xx/6xxe (Propus)

AMD Athlon X3 4xx/4xxe (Rana)

AMD Athlon X2 2xx/2xxe (Regor)

AMD Sempron Single Core 1xx (Sargas core)

Memory upgrade information

Dual channel memory architecture

Four DDR3 DIMMs (240-pin) sockets

PC3-8500 (DDR3-1066)

PC3-10600 (DDR3-1333)

Non-ECC memory only, unbuffered

Supports 1GB, 2GB, and 4GB DDR3 DIMMs

Supports up to 16 GB on 64-bit systems

Supports up to 4 GB on 32-bit PCs

*32-bit PCs cannot address a full 4.0 GB of memory.

Integrated video

Integrated graphics using ATI Radeon 4200

*Integrated video is not available if a graphics card is installed.

Integrated graphics using ATI Radeon 4200

Integrated graphics: concurrent use of the DVI and VGA ports is supported.

Also supports PCI Express x16 graphics cards*

NOTE:

*Either integrated graphics or the PCI Express x16 slot are usable at one time; they are not usable concurrently.

Integrated audio

Integrated ALC888S-VD audio

*Integrated audio is not available if a sound card is installed.

Audio CODEC: ALC888S-VD

Number of channels: 8

Maximum sample rate: up to 192,000 Hz

Supports one SPDIF digital connection

Integrated network

LAN: 10-Base-T

Technology: PCI Realtek RTL8105E

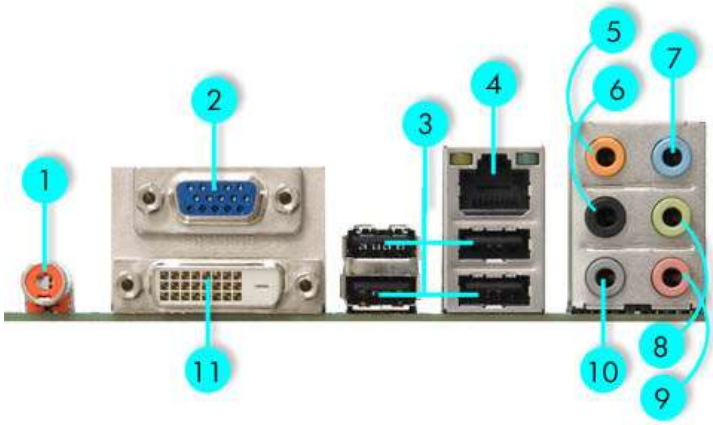
Data transfer speeds: up to 10/100 Mb/s

Transmission standards:10-Base-T Ethernet

I/O Ports and internal connectors

Back I/O ports

Figure 2: Back I/O panel



One electrical S/PDIF Output
One VGA port
Four USB 2.0 ports
One RJ45 10/100 Mb/s LAN
Center/Subwoofer-out (yellow - orange)
Rear speaker-out (black)
Line-in (light blue)
Line-out (lime)
Mic-in (pink)
Side speaker-out (gray)
One DVI-D port

Internal Connectors

One CPU fan connector

One system fan connector

Four SATA connectors

One front audio header

One Mini-PCIE LED header

Two Dual-USB 2.0 headers

Four Single-USB 2.0 headers

One front panel header

One S/PDIF out header

One Power Supply connector

One ATX connector

Expansion Slots

1 PCI Express x16 slot Gen 2 speed

3 PCI Express x1 slots

1 PCI Express x1 mini card socket

Jumper settings

⚠ CAUTION:

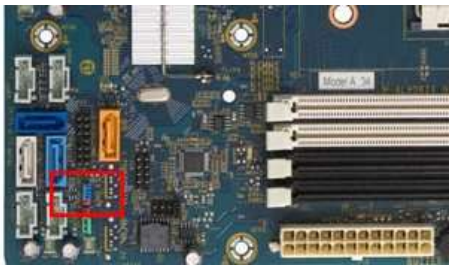
Do not change any jumper setting while the computer is on. Damage to the motherboard can result.

Clearing the CMOS settings

This jumper allows you to clear the Real Time Clock (RTC) RAM in CMOS. To clear CMOS, follow these steps:

Turn OFF the computer and unplug the power cord.

Locate the jumper labeled CLR_CMOS.



Move the jumper cap from pins 1-2 (default) to pins 2-3.

Wait 5-10 seconds and then return the jumper to pins 1-2.

You may now restart the PC.

Clearing the BIOS password

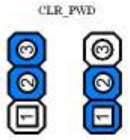
This jumper allows you to clear the BIOS password. The BIOS password is used to protect BIOS settings from unwanted changes. If you have forgotten your password you may disable password checking.

To clear the BIOS password follow these steps:

Turn OFF the computer and unplug the power cord.

Locate the jumper labeled CLR_PWD.

Move the jumper cap from pins 1-2 (default) to pins 2-3.

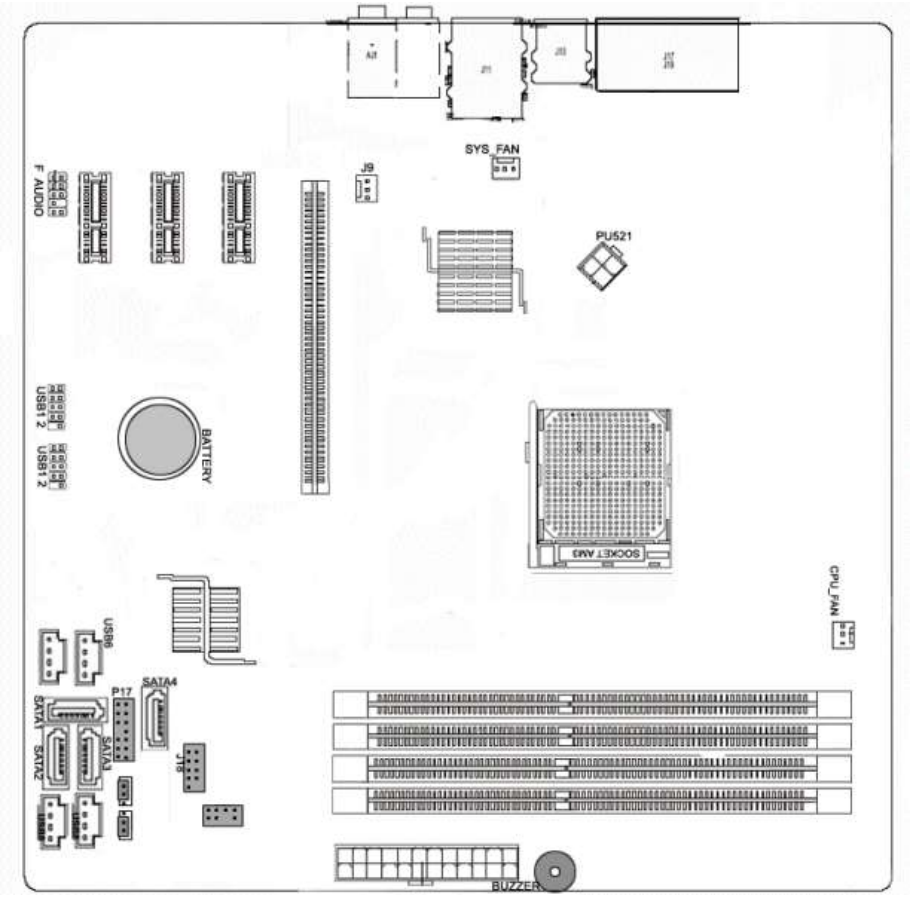


Wait approximately 10 seconds and then return the jumper to pins 1-2.

Plug in the power cord and turn ON the computer.

Motherboard layout

Figure 3: layout



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