User Guide

EVGA X79 Motherboard

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Before You Begin…

True next generation motherboards have arrived with the EVGA X79 motherboards! This product packs in the latest technologies to give you an uncompromised experience:

Uncompromised Performance – Unparalleled memory bandwidth with true quad channel DDR3 memory support, and Intel Turbo Boost Technology 2.0 gives you intelligent computing by optimizing performance on the fly! NVIDIA SLI and PhysX give you the expansion you need to maximize your graphics performance.

Uncompromised Power – High performance PWM and POSCAP Capacitors deliver clean, optimal power to your system for maximum overclocking. Also, with built in EVGA EVBot support*, you can overclock on the fly from the palm of your hand.

Uncompromised Features – This board is loaded with the latest technologies like a full UEFI BIOS, USB 3.0 Ports, SATA III/6G support, PCI-E 3.0** ports, E-SATA, a true next generation board layout, and more!

*sold separately

**pending PCI Express 3.0 supported CPU

Parts NOT in the Kit

This kit contains all the hardware necessary to install and connect your new EVGA X79 Motherboard. However, it does not contain the following items that must be purchased separately to make the motherboard functional.

- **Intel Socket 2011 Processor**
- **DDR3 System Memory**
- **Socket 2011 CPU Cooling Device**
- **PCI Express Graphics Card**
- **Power Supply**

EVGA assumes you have purchased all the necessary parts needed to allow for proper system functionality. For a full list of supported CPUs on this motherboard, please visit www.evga.com/support/motherboard

Intentions of the Kit

This kit provides you with the motherboard and all connecting cables necessary to install the motherboard into a PC case.

When replacing a motherboard in a PC case, you will need to reinstall an operating system even though the current storage drive may already have one installed.

EVGA X79

Motherboard

Motherboard Specifications

- Size
  ATX form factor of 12 inches x 9.6 inches
  EATX form factor of 12 inches x 10.3 inches
- Microprocessor support
  Intel Socket 2011 Processor
- Operating systems
  Supports Windows 7 / Vista / XP
- Contains Intel X79 chipset
- System Memory support
  Supports Dual channel DDR3-2133MHz+. Officially supports up to 32GBs of DDR3 memory.
- USB 2.0 Ports
  Supports hot plug
  Supports wake-up from S1 and S3 mode
  Supports USB 2.0 protocol up to a 480 Mbps transmission rate
- USB 3.0 Ports
  Backwards compatible USB 2.0 and USB 1.1 support
  Supports transfer speeds up to 5Gbps

- SATA Ports

  SATA ports up to 3G (300 MB/s) data transfer rate

  SATA ports up to 6G (600 MB/s) data transfer rate
  Support for RAID 0, RAID 1, RAID 0+1, RAID5 and RAID 10
  ESATA
- Onboard LAN

  Supports 10/100/1000 Mb/sec Ethernet
- Onboard Firewire 1394a (1394b optional)

  Supports hot plug
- Onboard Audio

  Realtek ALC898 High-Definition audio
  Supports 8-channel audio
  Supports Jack-Sensing function
  Supports Optical Output
- PCI-E Support

  PCI-E 2.0 Slots (PCI-E 3.0 Ready**)

  Low power consumption and power management features
- Power Functions

  Supports ACPI (Advanced Configuration and Power Interface)

  Supports S0 (normal), S1 (power on suspend), S3 (suspend to RAM), S4 (Suspend to disk - depends on OS), and S5 (soft - off)
- Expansion Slots

  PCI-E x1 slots

  PCI-E x8/x16 slots

Unpacking and Parts Descriptions

Unpacking

The EVGA X79 Motherboard comes with all the necessary cables for adding a motherboard to a system case. If replacing a motherboard, you may not need many of these cables.

Equipment

The following accessories are included with the EVGA X79 Motherboard:

The EVGA X79 Motherboard

This PCI-E motherboard contains the Intel X79 chipset and is SLI-ready.

Visual Guide

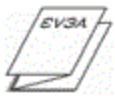
Helps to quickly and visually guide you through the hardware installation of the motherboard.

I/O Shield

Installs in the system case to block radio frequency transmissions, protect internal components from dust, foreign objects, and aids in proper airflow within the chassis.

2-Port SATA Power Cables

Allows a Molex power connector to adapt to a SATA power connector.

	2-Port USB 2.0 / 1394a Firewire Bracket Provides two additional USB ports and 1 additional 1394a Firewire port to the back panel of the chassis.
	2-Port USB 3.0 Bracket (Optional) Allows addition of 2 USB 3.0 ports by Connecting to the motherboard header.
	SATA 3G/6G Data Cables Used to support the SATA protocol and each one connects a single drive to the motherboard.
	2-way SLI Bridge Bridges two graphics cards together which allows for 2-way SLI.
	Installation CD Contains drivers and software needed to setup the motherboard.
	**User Manual** The user manual you are reading right now!

Hardware Installation

This section will guide you through the installation of the motherboard. The topics covered in this section are:

- Preparing the motherboard
- Installing the CPU
- Installing the Cooling Device
- Installing the memory
- Installing the motherboard
- Connecting cables

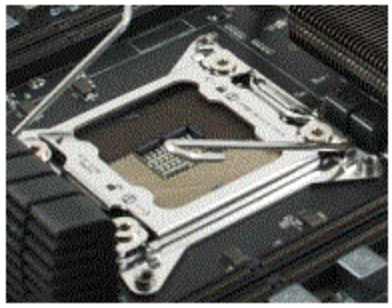
Safety Instructions

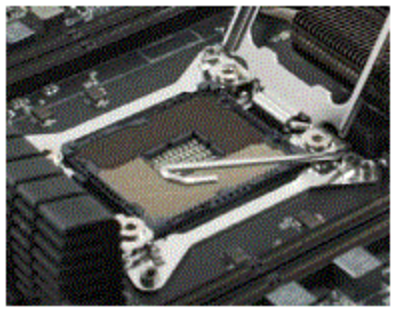
To reduce the risk of fire, electric shock, and injury, always follow basic safety precautions.

Remember to remove power from your computer by disconnecting the AC main source before removing or installing any equipment from/to the computer chassis.

Preparing the Motherboard

Installing the CPU





Be very careful when handling the CPU. Hold the processor only by the edges and do not touch the bottom of the processor.

Use the following procedure to install the CPU onto the motherboard:

- Unhook the left socket lever by pushing down and away from the socket.
- Unhook the right socket lever by pushing down and away from the socket.
- Gently press the left socket lever and the load plate will lift from the socket.
- Open the load plate and make sure not to damage any of the pins inside of the socket.

Note: After removing the CPU socket cover, it is recommended to store it in case you ever need to transport your motherboard. If you ever remove the CPU, it is highly recommended to reinstall the socket cover.