X79 Extreme11
Intel® X79 Chipset

ASRock®
www.asrock.com

Compatible with Windows® 7

intel® CHIPSET X79 inside™

Supports intel® inside™ CORE™ i7

Supports intel® inside™ CORE™

ATI CROSS FIRE X TECHNOLOGY

NVIDIA SLI READY

Detail Specification

Platform	- CEB Form Factor: 12.0-in x 10.5-in, 30.5 cm x 26.7 cm - Premium Gold Capacitor design (100% Japan-made high-quality Conductive Polymer Capacitors)
CPU	- Supports Intel® Core™ i7 processor family for the LGA 2011 Socket - Digi Power Design - 24 + 2 Power Phase Design - Dual-Stack MOSFET (DSM) - Supports Intel® Turbo Boost 2.0 Technology - Supports Hyper-Threading Technology - Supports Untied Overclocking Technology
Chipset	- Intel® X79
Memory	- Quad Channel DDR3 memory technology - 8 x DDR3 DIMM slots - Supports DDR3 2500+(OC)/2133(OC)/1866(OC)/1600/1333/1066 non-ECC, un-buffered memory - Supports DDR3 ECC, un-buffered memory with Intel® Workstation 1S Xeon® processors E5 16xx/26xx/46xx series in socket LGA 2011 - Max. capacity of system memory: 64GB - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2
Expansion Slot	- 7 x PCI Express 3.0 x16 slots (PCIE1/PCIE2/PCIE3/PCIE4/PCIE5/PCIE6/PCIE7: x16/0/16/0/16/0/16 mode or x16/8/8/8/8/8/8 mode) (2 x PLX PEX8747 Bridges to support 4-Way SLI™ in Gen3 x16/16/16/16 mode) - Supports AMD Quad CrossFireX™, 4-Way CrossFireX™, 3-Way CrossFireX™ and CrossFireX™ - Supports NVIDIA® Quad SLI™, 4-Way SLI™, 3-Way SLI™ and SLI™
Audio	- 7.1 CH HD Audio - Creative Sound Core3D quad-core sound and voice processor - Supports THX TruStudio™ PRO - Supports CrystalVoice - Supports Scout Mode - Supports EAX1.0 to EAX5.0 - Premium Headset Amplifier (PHA)
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Broadcom BCM57781 - Supports Wake-On-LAN - Supports Energy Efficient Ethernet 802.3az - Supports Dual LAN with Teaming function - Supports PXE
Rear Panel I/O	I/O Panel - 1 x PS/2 Keyboard Port - 1 x Optical SPDIF Out Port - 8 x Ready-to-Use USB 2.0 Ports - 2 x eSATA Connectors - 4 x Ready-to-Use USB 3.0 Ports - 2 x RJ-45 LAN Ports with LED (ACT/LINK LED and SPEED LED) - 1 x IEEE 1394 Port - 1 x Clear CMOS Switch with LED - HD Audio Jack: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
Storage	- 2 x SATA3 6.0 Gb/s connectors by Intel® X79, support RAID (RAID 0, RAID 1, RAID 5, RAID 10 and Intel Rapid Storage 3.0), NCQ, AHCI and "Hot Plug" functions - 8 x SAS2/SATA3 6.0 Gb/s connectors by LSI SAS2308 PCIe 3.0 controller, support RAID (RAID 0, RAID 1, RAID 1E and RAID 10), NCQ and "Hot Plug" functions
USB 3.0	- 4 x Rear USB 3.0 ports by TI®, support USB 1.0/2.0/3.0 up to 5Gb/s - 2 x Front USB 3.0 headers (support 4 USB 3.0 ports) by TI®, support USB 1.0/2.0/3.0 up to 5Gb/s
Connector	- 4 x SATA2 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 5, RAID 10 and Intel Rapid Storage 3.0), NCQ, AHCI and Hot Plug functions - 2 x SATA3 6.0 Gb/s connectors - 8 x SAS/SATA3 6.0 Gb/s connectors - 1 x IR header - 1 x CIR header - 1 x HDMI_SPDIF header - 1 x IEEE 1394 header - 1 x Power LED header - 2 x CPU Fan connectors (1 x 4-pin, 1 x 3-pin) - 3 x Chassis Fan connectors (1 x 4-pin, 2 x 3-pin) - 1 x Power Fan connector (3-pin) - 1 x SB Fan connector (3-pin) - 24 pin ATX power connector - 2 x 8 pin 12V power connectors - 2 x SLI/XFire power connectors - Front panel audio connector - 3 x USB 2.0 headers (support 6 USB 2.0 ports) - 2 x USB 3.0 headers (support 4 USB 3.0 ports) - 1 x Dr. Debug with LED - 1 x Power Switch with LED - 1 x Reset Switch with LED - 1 x Clear CMOS Switch with LED
BIOS Feature	- 64Mb AMI UEFI Legal BIOS with GUI support - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - CPU, VCCSA, DRAM, VTT, CPU PLL, PCH1.1V, PCH1.5V Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), CyberLink MediaEspresso 6.5 Trial, ASRock MAGIX Multimedia Suite - OEM

Unique Feature	- ASRock Extreme Tuning Utility (AXTU)
	- ASRock Instant Boot
	- ASRock Instant Flash
	- ASRock APP Charger
	- ASRock SmartView
	- ASRock XFast USB
	- ASRock XFast LAN
	- ASRock XFast RAM
	- ASRock X-FAN
	- ASRock Crashless BIOS
	- ASRock OMG (Online Management Guard)
	- ASRock Internet Flash
	- ASRock UEFI System Browser
	- ASRock Easy RAID Installer
	- ASRock Interactive UEFI
	- Hybrid Booster:
	  - CPU Frequency Stepless Control
	  - ASRock U-COP
	  - Boot Failure Guard (B.F.G.)
	- Good Night LED

Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power/SB Fan Tachometer - CPU Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU Temperature) - CPU/Chassis Fan Multi-Speed Control - Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit compliant
Certifications	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required)
Accessories	- 2 x ASRock SLI_Bridge Cards - 1 x ASRock SLI_Bridge_3S Card - 1 x ASRock 3-Way SLI Bridge Card - Quick Installation Guide, Support CD, I/O Shield - 6 x SATA Data Cables - 2 x SATA 1 to 1 Power Cables - 1 x Front USB 3.0 Panel - 4 x HDD Screws - 6 x Chassis Screws - 1 x Rear USB 3.0 Bracket

PLX PEX8747 chip

SAS2/SATA3 8x

Powered by Sound CORE3D

Dual-Stack MOSFET

Digi Power RAM Design

Interactive UEFI

Easy RAID Installer

Product Brief

- 7 x PCIe 3.0 x16 slots (2 x PLX PEX 8747 bridges), Support 4-Way SLI/CrossFireX in full x16 PCIe 3.0 speed.
- 8 SAS2/SATA3 from LSI™ SAS 2308 PCIe 3.0 Controller
- Creative Sound Core3D 7.1 CH, Supports Premium Headset Amplifier, THX TruStudio PRO™
- Premium Gold Caps (2.5 x longer life time), 100% Japan-made high-quality Conductive Polymer Capacitors
- Supports Dual-Stack MOSFET (DSM)
- Supports Digi Power, 24 + 2 power phase design
- Supports Quad Channel DDR3 2500+(OC)
- Broadcom PCIE Dual LAN with Teaming Function
- 8 USB 3.0 (4 Front, 4 Back), 10 SATA3 (2 from Intel X79, 8 from LSI)
- Supports XFast 555, OMG, Internet Flash, Easy RAID Installer, Interactive UEFI, UEFI System Browser
- Free Bundle : 1 x Front USB 3.0 Panel, 1 x Rear USB 3.0 Bracket, CyberLink MediaEspresso 6.5 Trial, MAGIX Multimedia Suite

4-Way SLI/CrossFireX at PCIe 3.0 x16 Speed

Supported by 2*PLX PEX 8747 Bridges

PLX PEX 8747 bridge is a PCIe Gen3 silicon chip. It brings solid PCIe 3.0 lanes for PCIe devices and is optimized to support high performance graphics. Enthusiasts will appreciate the onboard two PLX PEX 8747 bridges. Via PLX PEX bridges, ASRock X79 Extreme11 can run multi-GPU 4-Way SLI/CrossFireX at PCIe Gen3 x16/x16/x16/x16 mode simultaneously.
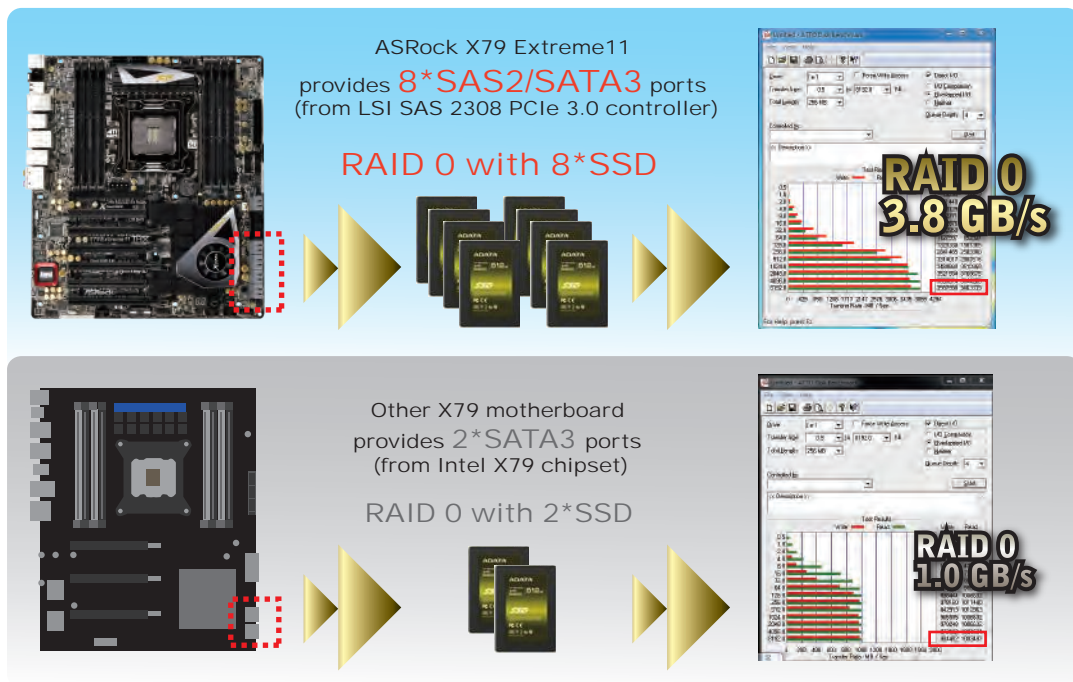
PEX8747 chip
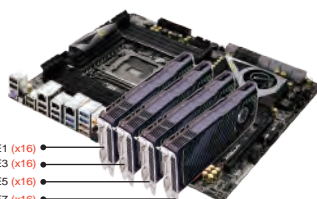
PCIE1 (x16)
PCIE3 (x16)
PCIE5 (x16)
PCIE7 (x16)

● 4-Way SLI, 4-Way CrossFireX

ATI CROSSFIRE X TECHNOLOGY

nvidia SLI READY

## 8 SAS2/SATA3 (6 Gb/s) from LSI™ SAS 2308 PCIe 3.0 Controller

The feature-rich X79 Extreme11 motherboard offers rich storage options. It provides 10 SATA3 ports, 8 of which are SAS2 (6 Gb/s) ports sourced from LSI™ SAS 2308 PCIe 3.0 controller. Via LSI™ MegaRAID® utility, users can get high transfer speed 3.8 GB/s through 8 SSDs in RAID 0 mode.

SAS2/SATA3

8x

LSI

ASRock X79 Extreme11
provides 8*SAS2/SATA3 ports
(from LSI SAS 2308 PCIe 3.0 controller)

RAID 0 with 8*SSD

RAID 0
3.8 GB/s

Other X79 motherboard
provides 2*SATA3 ports
(from Intel X79 chipset)

RAID 0 with 2*SSD

RAID 0
1.0 GB/s

Creative Sound Core3D Audio with Premium Headset Amplifier

The onboard Creative SoundCore 3D quad-core sound and voice processor brings a truly immersive audio experience and supports THX TruStudio PRO™, CrystalVoice, EAX 1.0 to 5.0, Scout Mode, etc. ASRock Premium Headset Amplifier (PHA) provides wider bandwidth, higher slew rate with lower noise and distortion. It also supports up to 250 Ohm high-end headsets, which delivers crisper audio into the users ears.
(Note: PHA is only supported with front audio)

Sound CORE3D
Powered by Sound CORE3D
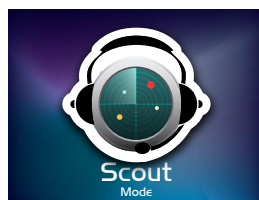
Scout Mode™ - Hear the enemy before they hear you -

Scout Mode™ technology is a proprietary technology from the onboard Creative Sound Core3D processor that allows you to hear your enemies from further away, giving you a distinct tactical advantage in combat.
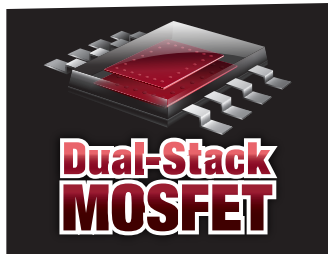
Scout Mode

Dual-Stack MOSFET (DSM)

Dual-Stack MOSFET (DSM) is an innovative new design of MOSFETs. The silicon die area is increased by stacking two dies into a MOSFET. The larger the die area, the lower Rds(on). Compared to traditional discrete MOSFET, DSM can provide larger die area and lower Rds(on), so the power supply for CPU Vcore is more efficient.

Premium Gold Caps

Premium Gold Caps are 100% made in Japan; these solid capacitors are sleek, high gloss caps with a premium gold coating representing long life and stable performance.

Digi Power

By adopting digital Pulse-width modulation (PWM), the X79 motherboard can provide CPU Vcore voltage more efficiently and smoothly.

24 + 2 Power Phase Design

ASRock X79 Extreme11 is designed with a 24 + 2 Power Phase design. It features sturdy components and completely smooth power delivery to the CPU. Plus, it offers unmatched overclocking capability and enhanced performance with the lowest temperature for advanced gamers as well.
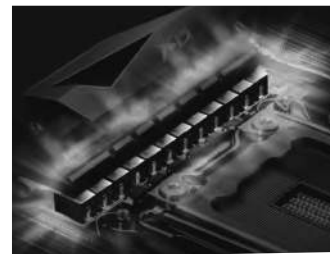
8 x DDR3 2500+ (OC)

ASRock X79 Extreme11 unlocks maximum memory performance, coming with 8 DIMM slots for quad-channel memory, supporting up to DDR3 2500+ (OC) MHz!

Next-Gen PCIe 3.0

- Higher bit rate - 8.0GT/s
- Higher bandwidth per lane - 1GB/s
- Higher efficiency - 98.5% encoding efficiency
- 100% backward compatible with previous PCI-E 2.0 / 1.0 standard

8 USB 3.0 (4 Front, 4 Back)

Rich storage options! ASRock X79 Extreme11 offers 8 USB 3.0 (4 from onboard header, 4 from rear I/O) and bundles an exclusive front USB 3.0 panel to facilitate computing environment.

XFast 555
(XFast RAM, XFast LAN, XFast USB)

Designed for optimized computing, ASRock unique XFast 555 Technology (XFast RAM, XFast LAN, and XFast USB) allows users to experience 'REAL' performance boost in terms of system performance, LAN speed and USB transfer speed.

Interactive UEFI

ASRock Interactive UEFI is a blend of system configuration tools, cool sound effects and stunning visuals. The unprecedented UEFI provides a more attractive interface and brings a lot more amusing.

Easy RAID Installer

Easy RAID Installer can help you install the RAID driver easily without floppy drive. It can copy the RAID driver from a support CD to your USB storage device with just one simple click in UEFI setup.

Internet Flash

Internet Flash searches for available UEFI firmware updates from ASRock servers. System can auto-detect the latest UEFI from our servers and flash them within UEFI setup without entering Windows ® OS.

ASRock OMG
(Online Management Guard)

Fast, Easy and Free – ASRock OMG technology allows you to establish an internet curfew or restrict internet access at specified times. Administrators are able to schedule the starting and ending hours of internet access granted to other users.