

ASUS Introduces the **E3 PRO GAMING V5** Motherboard

Tagline: Play Your Strengths on Xeon or Core

25 Word Summary: With support for both Intel® Xeon® E3 V5 and Core™ Processors and gaming features like SupremeFX Audio, the E3 PRO GAMING V5 is as capable as it is accessible.

50 Word Summary: With support for both Intel® Xeon® E3 V5 and Core™ Processors, cutting-edge USB 3.1 Type C & M.2 and gaming features like SupremeFX Audio, the E3 PRO GAMING V5 is as capable as it is accessible. And with safeguards such as LANGuard and Gamer's Guardian, the E3 PRO GAMING V5 ensures durability and longevity.

- **Model Name:** E3 PRO GAMING V5
- **ETA:** Disponible Ahora.
- **Web Link:** <https://www.asus.com/us/Motherboards/E3-PRO-GAMING-V5/>
- **Part Number:** 90MB0Q90-M0AAY0
- **UPC Code:** 889349282892
- **Box Dimension:** 10.4 x 12.9 x 2.7 inches
- **Gross Weight:** 3.47 lbs.
- **Quantity per Carton:** 5 Pieces
- **Quantity per Pallet:** 315 pcs
- **Warranty:** 3 Year Warranty

[E3 PRO GAMING V5]

< Product Specification Summary >

- LGA1151 socket for Intel® Xeon® E3-1200 v5 processors and 6th-generation Core™, Pentium® and Celeron® processors
- Dual-channel DDR4 2133 support
- SupremeFX: Flawless audio that makes you part of the game
- Intel Gigabit Ethernet, LANGuard: Top-speed protected networking
- USB 3.1 Type A/C & M.2: Ultra-speedy transfer for faster gaming

TOP-SPEED PROTECTED NETWORKING

Only the quickest shot survive, so E3 Pro Gaming V5 banishes lag — letting you annihilate your foes as fast as your trigger finger! Our engineers pack in only the best networking technology, including tournament-level Intel® Gigabit Ethernet and ASUS-exclusive LANGuard and GameFirst technologies to keep your connection fast, so always fire first and watch your enemies fall.

Intel Gigabit Ethernet

More throughput, less CPU usage and great gaming experiences

Featuring the very latest Intel Ethernet (I219LM) for faster, smoother gaming — always. Intel's LAN has the serious double advantage of reducing CPU overhead and offering exceptionally high TCP and UDP throughput. This significantly reduces the processor's workload, so there's more power for your game and your gameplay.

LANGuard

Pumped-up throughput. Best surge protection

ASUS LANGuard is hardware-level networking protection that employs signal-coupling technology and premium anti-EMI surface-mounted capacitors for rock-solid gaming connections and better throughput for online play, plus electrostatically-guarded and surge-protected components for greater tolerance to static electricity and improved protection against surges.

GameFirst

Team up to banish lag

GameFirst IV Beta optimizes network traffic for faster, lag-free online gaming — and now we've added Multi-Gate Teaming to team all your networks for maximum bandwidth and the smoothest-ever gameplay. You'll also enjoy all-new Intelligent mode, which automatically compiles a database by parsing new app data to ensure that every game is optimized for the best performance.

Multi-Gate Teaming

Team all your network gateways for maximum bandwidth and assign connections to every application for the smoothest-ever gameplay.

PERFORMANCE LEVEL UP

Maxed-out performance means maximum gaming thrills, and with exclusive AI Suite 3's dashboard-style control panel you'll fine-tune almost every aspect of your E3 Pro Gaming V5-based system. Get the best balance between performance, cooling, stability, efficiency and aesthetics — all via a simple and intuitive interface.

FAN Xpert3

Play quieter and cooler with advanced fan and water-pump controls for the ultimate cooling in undisturbed gaming. With five onboard thermal sensors and hardware-level four 4-pin/3-pin PWM/DC mode detection, Fan Xpert 3 makes sure every fan achieves the best balance of high cooling performance and low noise, so you enjoy all the performance you demand with none of the racket — great for liquid-cooling setups!

Award-winning BIOS design

The smoothest, slickest mouse-controlled graphical BIOS has been improved to make it even more appealing. Whether you're a PC novice or a seasoned overclocker, the EZ and Advanced Modes help you find your way. In EZ Mode you can get set up very quickly, applying the date and time, fan profiles and Intel Extreme Memory Profile (XMP) memory profiles. Switch to Advanced Mode to set up favorites and shortcuts, record and review recent changes with Last Modified or make notes in Quick Notes.

CrashFree BIOS 3

Never again worry about corrupted BIOS, as CrashFree BIOS 3 lets you restore a PC to working order — even when it won't boot!

EZ Flash 3

Update the latest BIOS via the internet, and from within the BIOS.

RAMCache

Speed your game loads

Uniquely-intelligent technology that effectively caches an entire storage device so that favorite games and apps launch at breakneck speeds, getting to work the moment it's activated. RAMCache turns milliseconds into microseconds to boost game-load times to stratospheric levels!

FLAWLESS AUDIO THAT MAKES YOU PART OF THE GAME!

Be the best on the battlefield with E3 Pro Gaming V5's truly immersive SupremeFX audio and experience sound so alive with realism that it hands you the vital competitive edge needed to win. With near-lossless delivery and exclusive Sonic Radar II technology to pinpoint battlefield enemies before they spot you, SupremeFX sounds stupendous — and puts both your ears and frags in front of everyone else!

SupremeFX

Shielded audio, superior sound

ASUS-exclusive SupremeFX technology delivers high-fidelity, near-lossless audio no matter how frantic your game becomes. The purity and stability of the remarkable 115dB signal-to-noise ratio (SNR) is assured, with a shielded design, electromagnetic-interference (EMI) cover and voltage-protected 5V power supply. Supreme FX's superior components, including the trusted Realtek ALC1150 codec, maximize acoustic performance and eliminate interference — so you hear only the very best from your gaming headset or speakers!

Illuminated red line shielding

Banish analog interference and enjoy eye-catching, customizable lighting effects.

EMI cover

Effective shielding against electromagnetic interference preserves the integrity of audio signals for the best quality.

300Ω-headphone amplifier

Drive some of the very best headphones available for exceptional gaming-audio and music-listening experiences.

Premium Nichicon audio capacitors

Fine-quality Japanese-made components that produce a warmer, natural sound with exceptional clarity and fidelity.

Sonic Radar II

Scan and detect to dominate!

Sonic Radar II displays a stealthy overlay that shows what your opponents and teammates are up to on the battlefield, all managed via a simple control panel and customizable game list. See the direction and origin of key in-game sounds, and practice your enemy-pinpointing skill, plus Audio Enhancement technology clarifies every last sound — so you hear the distant sound of enemy footsteps and become the hunter, not the hunted!

Digi+ VRM

Digi+ VRM voltage-regulator module (VRM) is one of the finest in the industry, ensuring ultra-smooth and ultra-clean power delivery to the CPU at all times!

DRAM overcurrent protection

All connection ports and DRAM are protected against overcurrent and short-circuit damage by onboard resettable fuses, extending your motherboard's life.

Highly durable components

Fine-quality, super-tough components are our watchwords. We fit only superior chokes, plus durable capacitors engineered to resist extreme temperature variations of between -55°C and 105°C —110% better than the industry standard.

Stainless steel back I/O

Crafted from chromium-plated, corrosion-resistant stainless steel, the input/output (I/O) panel is three times longer than ordinary panels!

Q-shield

1 pain

Protect your hands from nicks and cuts

Q-Slot

1 clip

to swap or secure your graphics card

Q-DIMM

1 sided

clips mean handling memory modules is a cinch — super simple and super secure

Q-LED

4 LEDs

indicate problems with the CPU, memory, graphics card or boot device for quick diagnosis

ESD Guards

2X-greater ESD protection for extended component lifespan

Electrostatic discharge (ESD) could mean game over for your rig, so E3 Pro Gaming V5 is protected by ESD Guards to actively prevent ESD — ensuring longer component lifespan and providing system resilience that's two times greater than industry standards. Game on!

Audio connector

Capacitor protection on both front and back audio-output circuits.

LAN connector

ESD TVS diode protection and an anti-surge LAN connector protects against extreme events, such as lightning strikes.

USB 3.0/2.0 connectors

On-circuit transient-voltage-suppression (TVS) diodes and capacitor protection for surface-mount and dual-inline packages.

Keyboard and mouse connector

Additional on-circuit ESD TVS diodes.

BUILT FOR GAMING

E3 Pro Gaming V5 is built for play, shaped by professional gamers and tested for gaming perfection — strong enough to storm through the industry's most punishing lab workouts. We engineer and test for the finest quality, longevity, performance, stability and compatibility. Our world-class engineers are themselves avid gamers, and combine their own passion with the skills and demands of some of the planet's best players to create innovative gaming features everyone will crave. With E3 Pro Gaming V5 you do more than just play — you'll experience gaming on the edge of reality.

THE POWER OF INTEL!

Intel C232 Chipset

The Intel® C232 is a single-chipset design that supports Intel Xeon® E3 1200 v5 series and 6th-generation Intel LGA1151 Core™ / Pentium® / Celeron® processors. It provides improved performance by utilizing serial point-to-point links, allowing increased bandwidth and stability. It natively supports a maximum of six USB 3.0 ports, six SATA 6Gbit/s ports, and PCIe 3.0 lane speed support for faster data retrieval.

Ready for Intel LGA1151 Xeon E3 1200 v5 series processors

This motherboard supports Intel® LGA1151 Xeon® E3 1200 v5 series processors, memory and PCI Express controllers integrated to support two-channel (4-DIMM) DDR4 memory and 16 PCI Express 3.0/2.0 lanes for great graphics performance.

Ready for 6th-generation Intel LGA1151 Core/ Pentium/Celeron processors

This motherboard supports 6th-generation Intel LGA1151 Core™ / Pentium® / Celeron® processors in the LGA1151 package, with graphics, memory and PCI Express controllers integrated to support onboard graphics output with dedicated chipsets, two-channel (4-DIMM) DDR4 memory and 16 PCI Express 3.0/2.0 lanes for great graphics performance.

E3 PRO GAMING V5

Note: The specifications are subject to change without notice.

CPU	LGA1151 socket for Intel® Xeon® E3-1200 v5 series Processors
	LGA1151 socket for 6th Generation Intel® Core™ / Pentium® / Celeron® Processors
	Supports 14nm CPU
	Supports Intel® Turbo Boost Technology 2.0*
	* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.
	** Refer to www.asus.com for Intel® CPU support list.
Chipset	Intel® C232 Express Chipset
Memory	4 x DIMM, max. 64GB, DDR4 2133 MHz, non-ECC, un-buffered memory*
	Dual channel memory architecture
	Supports Intel® Extreme Memory Profile (XMP)
	* Hyper DIMM support is subject to the physical characteristics of individual CPUs. Please refer to www.asus.com for the Memory QVL (Qualified Vendors List).
Multi-GPU support	Supports AMD® 2-Way / Quad-GPU CrossFireX™ Technology
Expansion Slots	- 1 x PCI Express 3.0 x16 slot (at x16 mode)
	- 1 x PCI Express 3.0 x16 slot (max. at x4 mode, compatible with PCIe x1 and x4 devices)
	- 2 x PCI Express 3.0 x1 slots*
	- 2 x PCI slots
	* When PCIe x16_2 is occupied by x4 or faster devices, PCIe x1_1 and PCIe x1_2 will be disabled.
Storage	Intel® C232 Express Chipset with RAID 0, 1, 5, 10 and Intel Rapid Storage Technology Enabled
	- 6 x Serial ATA 6.0Gb/s connectors
	- 1 x M.2 Socket 3 with M key, type 2242/2260/2280/22110 storage devices support (both SATA and NVMe)
	* When the M.2 Socket 3 is operating in SATA mode, SATA port 1 will be disabled.
	** Before creating RAID on Windows® 7, we recommend that you install Windows® 7 first via SATA mode.
LAN	Intel® Gigabit LAN
	Anti-surge LANGuard
	GameFirst technology
Audio	SupremeFX 8-Channel High Definition Audio CODEC
	- Supports : Jack-detection, Multi-streaming, Front Panel MIC Jack-retasking
	- High quality 115dB SNR stereo playback output
	Audio Features :
	- SupremeFX Shielding™ Technology
	- Headphone AMP
	- Optical S/PDIF out port at back panel
	- Sonic Radar II
USB	ASMedia® USB 3.1 Controller - supports ASUS USB 3.1 Boost
	- 2 x USB 3.1 ports (1 Type-A, red; 1 Type-C, black at back panel)
	Intel® C232 Express Chipset - supports ASUS USB 3.1 Boost
	- 6 x USB 3.0/2.0 ports (2 ports at mid-board; 4 ports at back panel, blue)
	- 6 x USB 2.0/1.1 ports (4 ports at mid-board; 2 ports at back panel)*

	* 2 x USB2.0 port at mid-board shares with ROG extension (ROG_EXT) port.
ASUS Gaming Features	Gamer's Guardian
	- DIGI+ VRM
	- DRAM Overcurrent Protection
	- ESD Guards on LAN, Audio, KBMS and USB 3.0/2.0 ports
	- Highly Durable Components
	- Stainless Steel Back I/O
	- Q-Design (Q-Shield, Q-DIMM, Q-LED, Q-Slot)
	Performance Level Up
	- DIGI+ VRM
	- Fan Xpert 3 featuring Fan Auto Tuning function and multiple thermistors selection for optimization
	- UEFI BIOS EZ Mode (CrashFree BIOS 3, EZ Flash 3)
	- RAMCache: Speed your game loads
	ASUS Exclusive Features
	- ASUS CPU-Z
	- USB 3.1 Boost featuring speedy USB 3.1 transmission
	- AI Charger+
	- Disk Unlocker
	- Push Notice
	- Media Streamer
Back Panel I/O Ports	1 x PS/2 keyboard port (purple)
	1 x PS/2 mouse port (green)
	2 x USB 2.0 ports
	4 x USB 3.0/2.0 ports
	2 x USB 3.1 ports (1 Type-A, red; 1 Type-C, black)
	1 x LAN (RJ45) port
	1 x optical SPDIF out
	8-channel audio I/O ports
Internal I/O Connectors	1 x 19-pin USB 3.0/2.0 connector supports additional 2 USB 3.0/2.0 port
	2 x USB 2.0/1.1 connectors support additional 4 USB 2.0/1.1 ports (one connector via ROG_EXT)
	1 x System panel connector
	1 x Front panel audio connector (AAFP)
	6 x SATA 6.0 Gb/s connectors (gray)
	1 x M.2 Socket 3 with M Key, type 2242/2260/2280/22110 devices
	1 x CPU fan connector (4-pin)
	1 x Water pump connector (4-pin)
	3 x Chassis Fan connectors (4-pin) for both 3-pin(DC mode) and 4-pin(PWM mode) coolers connect
	1 x COM connector
	1 X CPU_OV
	1 x ROG extension (ROG_EXT) header(s)
	1 x 24-pin EATX Power connector

	1 x 8-pin EATX 12V Power connector
	1 x Thermal sensor header
	1 x Clear CMOS jumper (2-pin)
BIOS features	128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI 3.0, WfM 2.0, SM BIOS 3.0, ACPI 5.0, Multi CrashFree BIOS 3, F6 Qfan Control, F3 My Favorites, F9 Quick Note, Last Modified Log, F12 BIOS Presence Detect) memory information
Manageability	WfM 2.0, DMI 3.0, WOL by PME, PXE
Accessories	4 x Serial ATA 6.0Gb/s cables
	1 x User Manual
	1 x I/O Shield
	1 x M.2 Screw package
	1 x PRO GAMING cable labels
	1 x pack of cable tie
	1 x Support DVD
Support DVD	Drivers
	ASUS Utilities
	EZ Update
	Anti-virus software (OEM version)
Operating System Support	Windows® 10*
	Windows® 8.1*
	Windows® 7
	*64-bit supported only
	** Please refer to ASUS website and download “Windows® 7 installation guide” and “ASUS EZ
Form Factor	ATX Form Factor, 12”x 9.6” (30.5cm x 24.4cm)