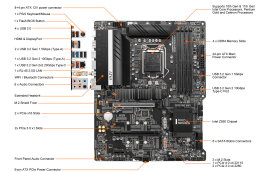
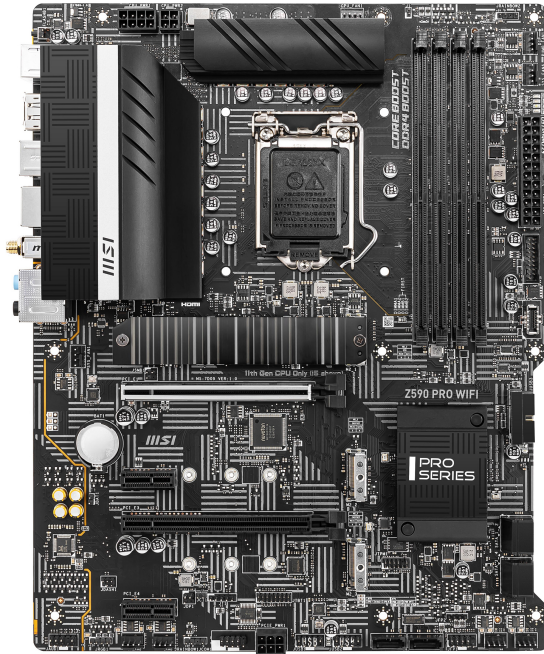


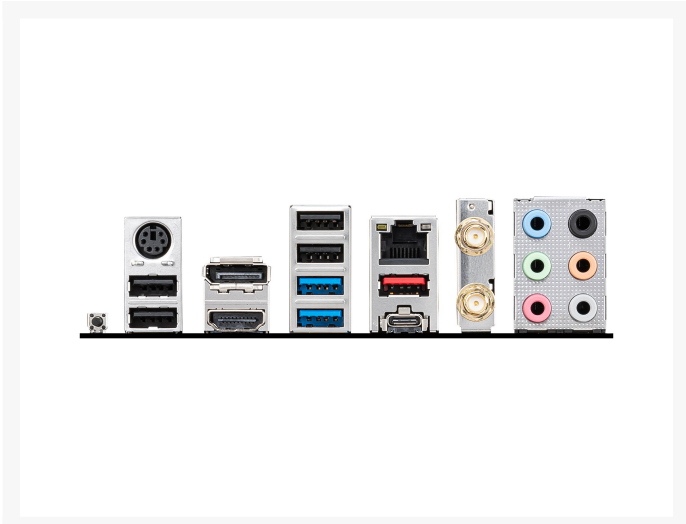
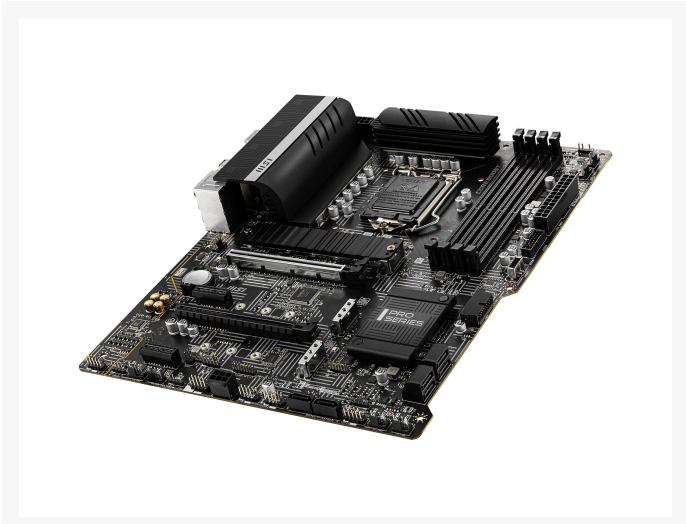


MSI Z590 PRO WIFI LGA 1200 Intel Z590 SATA 6Gb/s ATX Intel Motherboard

\$219.99

Product Images





Short Description

the MSI Z590 A Pro and the Z590 Pro WiFi blend basic with stylish. It uses a black ATX sized PCB, with white straight lines patterning, and black/silver accented heatsinks.

Description

PRO SERIES

PRO series motherboard series is created by addressing an efficient and productive experience. Featuring stable functionality and high quality assembly, PRO series motherboards provide not only standard professional workstation but also high-end workstation and beyond.



Z590 PRO WIFI PREMIUM THERMAL SOLUTION



Extended Heatpipes
for enhanced heat dissipation
and performance

Pro Fan Support
for more efficient fan speed for cool

UEFI BIOS Power
Management for better power
management

USER FRIENDLY DESIGN

With thoughtful design and attention to detail, PRO series motherboards bring cool and refreshing solutions to your desktop to push your system to new heights and satisfy your most demanding tasks. Make it so easy to install your own motherboard without a guide.



COOLING

DESIGN

COMPATIBILITY

RELIABLE COMPONENTS

EXTENDED HEATPIPS DESIGN M.2 SHIELD FRODO FULLY FAN CONTROL FRODO AIR COOLING PUMP FAN READY

THERMAL SOLUTION FOR MORE CORES AND HIGHER PERFORMANCE

With more cores, processors, thermal and power design is more important to make sure the temperature stays lower. PRO extended PMH module with 70mm thermal pad ensures even high-end processors to run in full speed with PRO motherboards.



CONNECTIVITY

The PRO series offers 10G Ethernet connectivity. PRO series motherboard features plenty of ports for expansion: 8x SATA 6Gb/s, LAN, Serial Storage and USB Controller board of other expansion modules with high-end connectivity.



LAN

LIGHTNING GEN 4

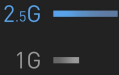
USB

OTHER EXPANSION

10G LAN 10G BE LAN MANAGER

HIGH-BANDWIDTH AND LOW-LATENCY NETWORK

2.5Gbps LAN provides incredible data transfer speed faster than general Gigabit LAN. This is a premium solution for demanding users.



EXPERIENCE MORE

PRO series motherboard are designed to satisfy a professional workflow. Elevate your working pleasure and enjoy extreme audio quality. Moreover, with years of experience in tuning performance through precision and quality control, make it highly capable operations in your desktop. The experience becomes so easy for you to enjoy better audio playback performance.



PERFORMANCE

AUDIO

BIOS & SOFTWARE

SECURITY

12 + 2 + 1 POWER DESIGN

Enhance and sustain maximum performance with an efficient power design. With 12 + 2 + 1 power phases, combining 11 + 4 pin power connectors and exclusive Cap Sense technology, PRO series motherboard is ready to sustain heavy duty work.



- 12 + 2 + 1 Phases
- 11 + 4 Pin Power
- Cap Sense
- Capacitors
- Download Protection



Z590 PRO WIFI

With 12 + 2 + 1 power phases, 11 + 4 pin power connectors and exclusive Cap Sense technology, PRO series motherboard is ready to sustain heavy duty work.

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Features

- Intel Z590
- Supports 11th / 10th Gen Intel Core processors
- Supports Intel Pentium Gold / Celeron processors
- DDR4 1R 3200 / 2933 / 2666 / 2133 for 11th Gen Intel CPU (by JEDEC & POR)
- DDR4 1R 2933 / 2666 / 2133 for 10th Gen Intel CPU (by JEDEC & POR)
- Max overclocking frequency:
- 1DPC 1R Max speed up to 5333
- 1DPC 2R Max speed up to 4700+
- 2DPC 1R Max speed up to 4400+
- 2DPC 2R Max speed up to 4000+

Specifications

Model

Brand MSI

Model Z590 PRO WIFI

Supported CPU

CPU Socket Type LGA 1200

CPU Type Supports 11th / 10th Gen Intel Core processors
Supports Intel Pentium Gold / Celeron processors

Chipsets

Chipset Intel Z590

Onboard Video

Onboard Video Chipset Supported only by CPU with integrated graphic

Memory

Number of Memory Slots 4×288pin

DDR4 1R 3200 / 2933 / 2666 / 2133 for 11th Gen Intel CPU (by JEDEC & POR)
DDR4 1R 2933 / 2666 / 2133 for 10th Gen Intel CPU (by JEDEC & POR)

Memory Standard Max overclocking frequency:
1DPC 1R Max speed up to 5333
1DPC 2R Max speed up to 4700+
2DPC 1R Max speed up to 4400+
2DPC 2R Max speed up to 4000+

Maximum Memory Supported 128GB

Channel Supported Dual Channel

Expansion Slots

PCI Express 4.0 x16 1 x PCI Express 4.0 x16*
* Actual support may vary by CPU.

PCI Express 3.0 x16 1 x PCI Express 3.0 x16

PCI Express x1 2 x PCI Express 3.0 x1

Storage Devices

SATA 6Gb/s 6 x SATA 6Gb/s

3 x M.2 slots (Key M)

M2_1 slot (from CPU) 1:
Available only on 11th Gen Intel CPU
Supports up to PCIe 4.0x4
Supports 2242/2260/2280/22110 storage devices

M.2 M2_2*, M2_3** slots (from Z590 chipset):
Support up to PCIe 3.0x4
Support up to SATA 6Gb/s
Support 2242/2260/2280 storage devices

* SATA2 will be unavailable when installing M.2 SATA SSD in the M2_2 slot.
** SATA5 & SATA 6 will be unavailable when installing M.2 SSD in the M2_3 slot.

Intel Optane Ready Intel Optane Memory Ready*
* Before using Intel Optane memory modules, please ensure that you have updated the drivers and BIOS to the latest version from MSI website.

SATA RAID 0/1/5/10

Onboard Audio

Audio Chipset Realtek ALC897

Audio Channels 7.1 Channels

Onboard LAN

LAN Chipset Intel I225-V

Max LAN Speed 10/100/1000/2500Mbps

Wireless LAN Intel Wi-Fi 6E AX210
Supports 802.11a/b/g/n/ac/ax

Bluetooth Bluetooth 5.2

Rear Panel Ports

	1 x Flash BIOS Button
	1 x PS/2 Keyboard/Mouse
	6 x Audio Connectors
	1 x HDMI
	1 x DisplayPort
Back I/O Ports	1 x USB 3.2 Gen 2x2 20Gbps Type-C
	2 x USB 3.2 Gen 1 5Gbps (Type-A)
	1 x USB 3.2 Gen 2 10Gbps (Type-A)
	4 x USB 2.0
	1 x LAN
	WIFI / Bluetooth Connectors

Internal I/O Connectors

Onboard USB	1 x USB 3.2 Gen 2 10Gbps Type-C port
	2 x USB 3.2 Gen 1 5Gbps connectors (supports additional 4 USB 3.2 Gen 1 5Gbps ports)
	2 x USB 2.0 connectors (supports additional 4 USB 2.0 ports)
Other Connectors	1 x 6-pin ATX PCIe power connector
	1 x 4-pin CPU fan connector
	1 x 4-pin water-pump fan connector
	6 x 4-pin system fan connectors
	1 x Front panel audio connector
	2 x System panel connectors
	1 x Chassis Intrusion connector
	1 x Clear CMOS jumper
	1 x TPM module connector
	1 x Serial port connector
	1 x Tuning controller connector
	1 x TBT connector (Supports RTD3)

Physical Spec

Form Factor	ATX
Dimensions (W x L)	12.0" x 9.6"
Power Pin	1 x 24-pin ATX main power connector
	1 x 8-pin ATX 12V power connector
	1 x 4-pin ATX 12V power connector

Additional Information

Brand	MSI
SKU	MSI-Z590-WIFI-PRO
Weight	10.0000
Color	Black
Vendor SKU/EAN	824142242148

