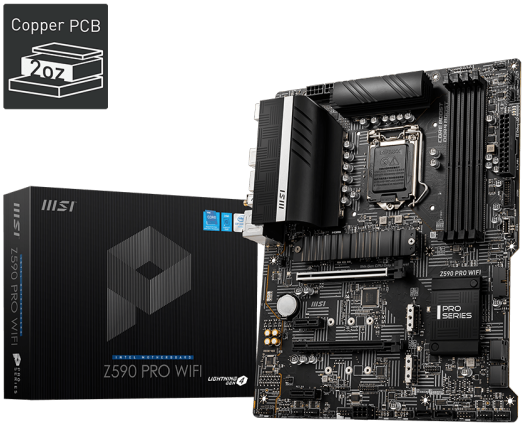
MOTHERBOARD

Z590 PRO WIFI

BUSINESS ELEGANCE



SPECIFICATIONS

Model Name	Z590 PRO WIFI
CPU Support	Supports 10th Gen Intel® Core™ Processors, 11th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors
CPU Socket	LGA 1200
Chipset	Intel® Z590 Chipset
Graphics Interface	1x PCIe 4.0 x16 slot 1x PCIe 3.0 x16 slot
Display Interface	Support 4K@60Hz as specified in HDMI™ 2.0b, DisplayPort 1.4 – Requires Processor Graphics
Memory Support	4 DIMMs, Dual Channel DDR4-5333MHz(OC)
Expansion Slots	2x PCIe 3.0 x16 slots
Storage	1x M.2 Gen4 x4 slot 2x M.2 Gen3 x4 slots 6x SATA 6Gb/s ports
USB ports	1x USB 3.2 Gen 2x2 20Gbps (Type-C) 2x USB 3.2 Gen 2 10Gbps (1 Type-C + 1 Type-A) 6x USB 3.2 Gen 1 5Gbps(6 Type-A) 8x USB 2.0
LAN	Intel® I225-V 2.5G LAN
Wireless / Bluetooth	Intel® Wi-Fi 6E AX210, Bluetooth 5.2
Audio	8-Channel (7.1) HD Audio with Audio Boost

FEATURES

Optimum Thermal Solution

Wavy Fin Design, Direct Touch Cross Heat-pipe, MOSFET Baseplate, double-sided M.2 Shield Frozr, and Frozr AI software ensure the extreme performance with low temp.

M.2 Shield FROZR

Strengthened built-in M.2 thermal solution. Keeps M.2 SSDs safe while preventing throttling, making them run faster.

DDR4 Boost

Advanced technology to deliver pure data signals for the best gaming performance and stability.

8+4 Pin power supply

By providing 8+4 pin connectors to ensure adequate power supply to unleash ultimate multi-core CPU performance.

Core Boost

With premium layout and fully digital power design to support more cores and provide better performance.

EZ Debug LED

Easiest way to troubleshoot.

Extended Heatsink Design

MSI extended PWM heatsink and enhanced circuit design ensures even high-end processors to run in full speed.

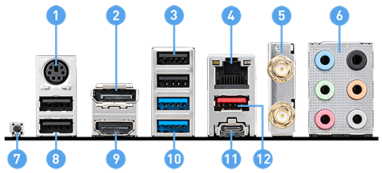
2.5G Network Solution

Featuring premium 2.5G LAN to deliver better network experience.

Frozr AI Cooling

Detect CPU & GPU temperatures and automatically adjust system fan duty to a proper value.

CONNECTIONS



1. Keyboard / Mouse
2. DisplayPort
3. USB 2.0
4. LAN port
5. WIFI / Bluetooth
6. Audio connector
7. Flash BIOS Button
8. USB 2.0
9. HDMI™
10. USB 3.2 Gen 1 5Gbps Type-A
11. USB 3.2 Gen 2x2 20Gbps Type-C
12. USB 3.2 Gen 2 10Gbps Type-A

Generated 2023-03-31, check for the latest version www.msi.com/datasheet. The information provided in this document is intended for informational purposes only and is subject to change without notice.

© 2023 Micro-Star Int'l Co.Ltd. MSI is a registered trademark of Micro-Star Int'l Co.Ltd. All rights reserved.