Performance-PCs.com

1701 R. J. Conlan Blvd.
NE, Unit #5
Palm Bay, FL 32905, USA

Toll Free: 888-381-8222

www.performance-pcs.com
sales@performance-pcs.com

Like Us Facebook

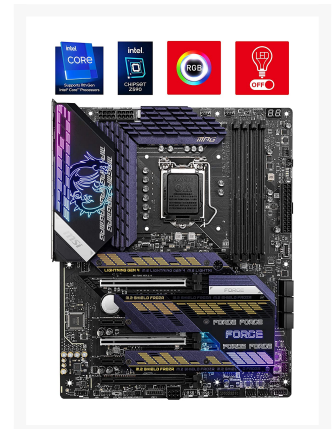See Our Instagram

Follow Us Twitter

Watch Our YouTube

MSI MPG Z590 Gaming Force ATX Motherboard

$299.99

Product Images

CrossFire

msi

USB Drive

Cleaning Brush

M.2 Screws / Screwdriver

2 x SATA Cables

Rainbow RGB LED Cable

CORSAIR RGB LED Cable

1 to 2 RGB LED Cable

BIOS

Flash BIOS Button

USB 2.0

HDMI   DisplayPort

HDMI 2.0b

TURBO USB USB 3.2 GEN2

Flash BIOS

TURBO USB USB 3.2 GEN1

20G

TypeC

2.5G

2.5G

S/PDIF-OUT   RS-OUT   CS-OUT

S/PDIF-Out

MIC-in   L-out   L-in

AUDIO BOOST5
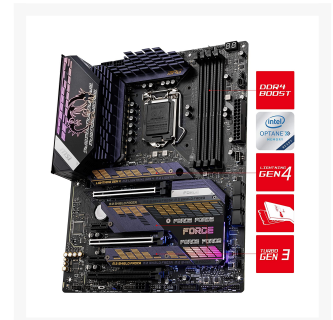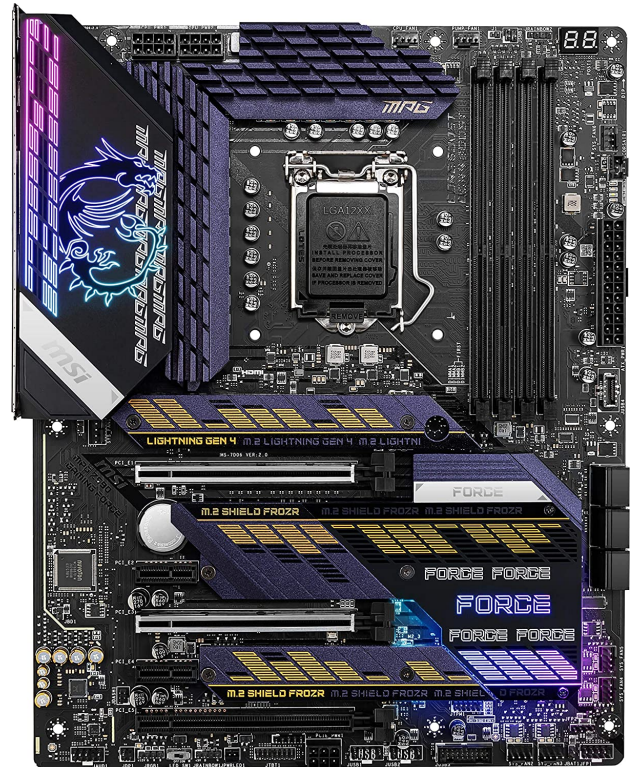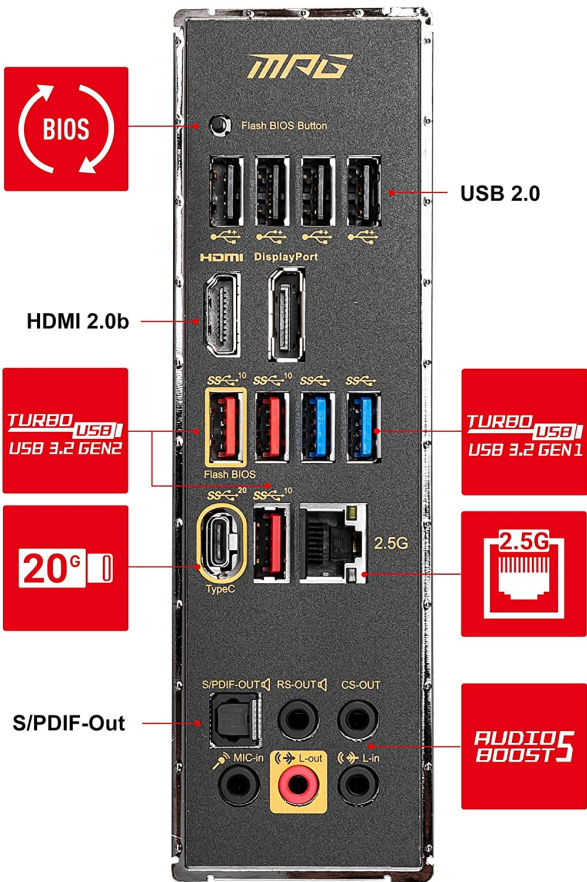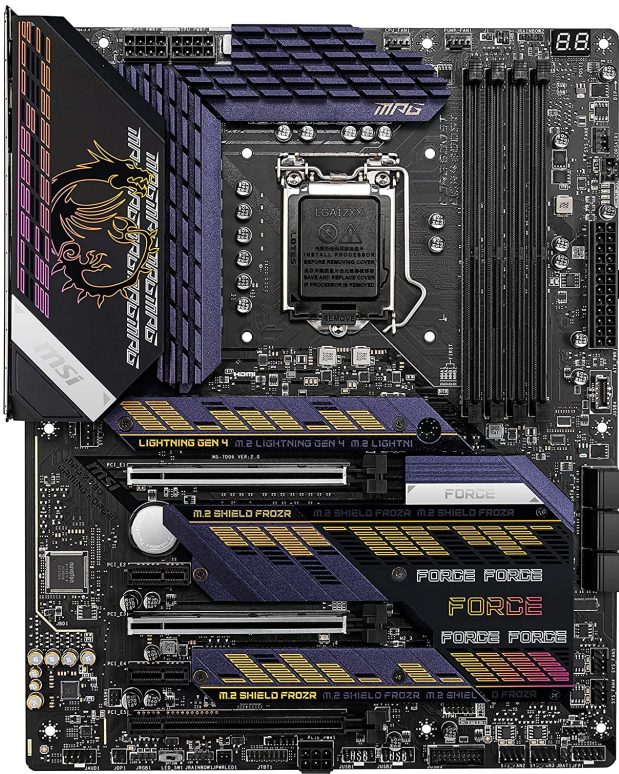
Short Description

The MPG series brings out the best in gamers by allowing full expression in color with advanced RGB lighting control and synchronization. Experiment on another level of personalization with a front LED strip that provides convenient in-game and real time notifications. With the MPG series, transform your equipment into the center of attention and top leaderboards in style.

Description

MPG Z590 GAMING FORCE Motherboard

Smart Design, Smart Cooling

The MPG Z590 GAMING FORCE delivers a powerful Intel Core 11th Gen ready platform that supports a broad spectrum of the state-of-the-art system processors and gaming hardware. For gaming connoisseurs looking to upgrade their motherboard without Wi-Fi deadweight, the MSI MPG Z590 GAMING FORCE is the smart choice.

Features

PREMIUM THERMAL SOLUTION

Heavy plated mosfet heatsink with heat-pipe, high quality 7W/mK mosfet thermal pads and extra choke thermal pads ensure all cores running in high performance.

Control water-cooling pump speeds for best flow and noise control.

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

Enlarged Chipset Heatsink
Larger heatsink for chipset ensures better heat dissipation and cooling effects.

PREMIUM HARDWARE DESIGN

With years of experience, MSI is no stranger to building high-performance motherboards. Our R&D and engineering teams have reviewed countless designs, evaluated a wide selection of high-quality components, and developed products for reliability even under extreme conditions.

COOLING | **POWER SOLUTION** | **DIY FRIENDLY** | **PROTECTION**

THERMAL OVERVIEW | M.2 SHIELD FROZR | FULLY FAN CONTROL | FROZR AI COOLING | SYSTEM COOLING

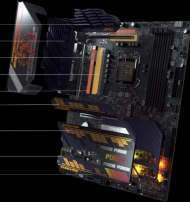Heavy Plated MOS heatsink

Heat-pipe

Extra Choke Thermal Pad

7W/mK MOSFET Thermal Pad

3x M.2 Shield Frozr

Enlarged Chipset Heatsink

ENHANCED PERFORMANCE

High performance MSI motherboards are loaded with advanced features and the latest technology to overwhelm any challenge at hand no matter whether you're a gamer, prosumer, or PC enthusiast.

MEMORY | **LIGHTNING GEN 4** | **BIOS & SOFTWARE**

DDR4 BOOST | ENHANCEMENT | XMP

EXTREME STABILITY & COMPATIBILITY TESTING

MSI conducts thorough memory testing with the most popular memory brands under extreme conditions to ensure your system runs stable no matter what. Our memory partners include brands like Corsair, Crucial, Kingston, G.Skill and many more to optimize memory modules, configurations and even improve overclocking.

CONNECTIVITY

MSI motherboards are built with a variety of connectors to satisfy gamers. Enhanced audio, advanced LAN networking capabilities, USB and Mystic Light turn any gaming experience into an immersive one.

NETWORKING | **AUDIO** | **USB** | **MYSTIC LIGHT**

2.5G LAN | 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.

2.5G LAN

2.5X

Gigabit LAN

PROCESSOR

- Supports 10th Gen Intel® Core™ Processors, 11th Gen Intel® Core™ Processors, Pentium® Gold and Celeron® Processors [1]
- Processor socket LGA1200

1. Please go to intel.com for compatibility information.

See supported processors

CHIPSET

Intel® Z590 Chipset

MEMORY

- 4x DDR4 memory slots, support up to 128GB [1]
- Supports 1R 2133/ 2666/ 2933 MHz for 10th Gen Intel® CPU (by JEDEC & POR)
- Supports 1R 2133/ 2666/ 2933/ 3200 MHz for 11th Gen Intel® CPU (by JEDEC & POR)
- Max overclocking frequency:
  - 1DPC 1R Max speed up to 5333 MHz
  - 1DPC 2R Max speed up to 4700+ MHz
  - 2DPC 1R Max speed up to 4400+ MHz
  - 2DPC 2R Max speed up to 4000+ MHz
- Supports Dual-Channel mode
- Supports non-ECC, un-buffered memory
- Supports Intel® Extreme Memory Profile (XMP)

1. Please refer to www.msi.com for more information on compatible memory

See supported memory

EXPANSION SLOTS

- 3x PCIe x16 slots
  - Support x16/x0/x4, x8/x8/x4, x8/x4+x4/x4
  - PCI_E1 & PCI_E3 slots (From CPU)
    - Support PCIe 4.0 for 11th Gen Intel® CPU
    - Support PCIe 3.0 for 10th Gen Intel® CPU
  - PCI_E5 slot (From Z590 Chipset)
    - Supports PCIe 3.0
- 2x PCIe 3.0 x1 slots (From Z590 Chipset)

ONBOARD GRAPHICS

- 1x HDMI 2.0b with HDR port, supports a maximum resolution of 4K 60Hz[1]/[2]
- 1x DisplayPort 1.4 port, supports a maximum resolution of 4K 60Hz[1]/[2]

1. Available only on processors featuring integrated graphics.
2. Graphics specifications may vary depending on the CPU installed.

MULTI-GPU

- Supports 3-Way AMD® CrossFire™ Technology

STORAGE

- 6x SATA 6Gb/s ports (From Z590 Chipset)
- 3x M.2 slots (Key M)
  - M2_1 slot (From CPU)
    - Available only on 11th Gen Intel® CPU
    - Supports PCIe 4.0 x4
    - Supports 2242/ 2260/ 2280/ 22110 storage devices
  - M2_2[1] & M2_3[2] slot (From Z590 Chipset)
    - Supports PCIe 3.0 x4
    - Supports SATA 6Gb/s
    - Supports 2242/ 2260/ 2280 storage devices
    - Intel® Optane™ Memory Ready[3]
- Supports Intel® Smart Response Technology for Intel Core™ processors

1. SATA2 will be unavailable when installing M.2 SATA SSD in the M2_2 slot.
2. SATA5 & SATA6 will be unavailable when installing M.2 SATA/PCIe SSD in the M2_3 slot.
3. Before using Intel® Optane™ memory modules, please ensure that you have updated the drivers and BIOS to the latest version from MSI website.

RAID

- Supports RAID 0, RAID 1 and RAID 10 for SATA storage devices
- Supports RAID 0 and RAID 1 for M.2 NVMe storage devices

USB

Intel® Z590 Chipset

- 1x USB3.2 Gen2x2 20Gbps port (Type-C port on the back panel)
- 4x USB 3.2 Gen 2 10Gbps ports (3 Type-A port on the back panel, 1 Type-C available through the internal connector)
- 4x USB 3.2 Gen 1 5Gbps ports (2 Type-A ports on the back panel, 2 Type-A ports available through the internal connector)

Hub-GL850G

- 8x USB 2.0 ports (4 Type-A ports on the back panel, 4 Type-A ports available through internal connectors)

AUDIO

Realtek® ALC4080 Codec

- 7.1-Channel High Definition Audio

LAN

- 1x Intel® I225V 2.5Gbps LAN controller

INTERNAL CONNECTORS

- 1x 24-pin ATX main power connector
- 2x 8-pin ATX 12V power connectors
- 1x 6-pin PCIE power connector
- 6x SATA 6Gb/s connectors
- 3x M.2 slots (M-Key)
- 1x USB 3.2 Gen 2 10Gbps Type-C port
- 1x USB 3.2 Gen 1 5Gbps connector (supports additional 2 USB 3.2 Gen 1 5Gbps ports)
- 2x USB 2.0 Type-A connectors (supports additional 4 USB 2.0 ports)
- 1x 4-pin CPU fan connector
- 1x 4-pin water-pump fan connector
- 6x 4-pin system fan connectors
- 1x Front panel audio connector
- 2x System panel connectors
- 1x Chassis Intrusion connector
- 1x Clear CMOS jumper
- 1x TPM module connector
- 1x TBT connector (supports RTD3)
- 1x Tuning Controller connector

LED FEATURE

- 1x EZ LED Control switch
- 4x EZ Debug LED
- 1x 2-Digit Debug Code LED
- 1x 4-pin RGB LED connector
- 2x 3-pin RAINBOW LED connectors
- 1x 3-pin CORSAIR LED connector

BACK PANEL PORTS

1. USB 2.0
2. DisplayPort
3. USB 3.2 Gen 1 5Gbps Type-A
4. 2.5G LAN
5. Audio Connectors
6. Flash BIOS Button
7. HDMI
8. USB 3.2 Gen 2 10Gbps Type-A
9. USB 3.2 Gen 2x2 20Gbps Type-C
10. Optical S/PDIF Out
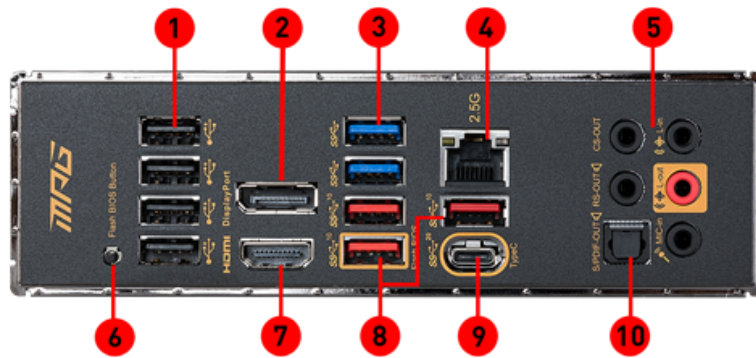
DIMENSIONS

- ATX Form Factor
- 12 in. x 9.6 in. (30.5 cm x 24.4 cm)
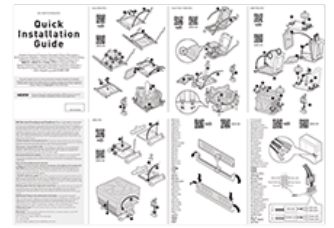
MOUNTING

9 mounting holes

OPERATING SYSTEM

- Support for Windows® 10 64-bit

BOX CONTENT

USB Drive

Quick Installation Guide

M.2 Screw / Standoff Sets

Screwdrivers

2 x SATA Cables

1 to 2 RGB LED Extension Y Cable

CORSAIR RGB LED Extension

Rainbow RGB LED Extension Cable

Cable Stickers

MPG Stickers

Case Badge

Cleaning Brush

Registration Card

1. MSI® does not guarantee the risks or damages caused by changing the cover.
2. These pictures are for reference only and may vary without notice.

Additional Information

Brand	MSI
SKU	MSI-Z590FORCE
Weight	4.0000
Color	Black
Processor Manufacturer	Intel
Vendor SKU/EAN	824142240991

4/25/24