ComX Computers
Product Specification Sheet

B650MPROJECTZERO

MSI B650M Project Zero B650 Chipset AMD Ryzen AM5 Socket mATX Motherboard

Product Overview

MSI B650M Project Zero B650 Chipset AMD Ryzen AM5 Socket mATX Motherboard, 4x DDR5, Maximum Memory Capacity 256GB, Memory Support DDR5 7600+(OC)/ 7400(OC)/ 7200(OC)/ 7000(OC)/ 6800(OC)/ 6600(OC)/ 6400(OC)/ 6200(OC)/ 6000(OC)/ 5800(OC)/ 5600(OC)/ 5400(OC)/ 5200(OC)/ 5000(OC)/ 4800(JEDEC) MHz, 1x Power Connector(ATX_PWR), 2x Power Connector(CPU_PWR), 1x CPU Fan, 1x Pump Fan, 3x System Fan, 2x Front Panel (JFP), 1x Chassis Intrusion (JCI), 1x Front Audio (JAUD), 3x Addressable V2 RGB LED connector (JARGB_V2), 1x TPM pin header(Support TPM 2.0), 4x USB 2.0 ports, 2x USB 5Gbps Type A ports, 1x USB 10Gbps Type C ports, 1 x DisplayPort, 1 x 2.5G LAN, 2 x USB 2.0, 2 x USB 5Gbps (Type-A), 1 x Wi-Fi / Bluetooth, Audio connectors, Flash BIOS Button, HDMI, 3 x USB 10Gbps (Type-A), 1 x USB 10Gbps (Type-C), 1 x USB 20Gbps (Type-C), mATX, 243.84mmx243.84mm



Specifications

Features:

- Supports AMD Ryzen™ 9000 / 8000 / 7000 Series Desktop Processors
- Supports DDR5 Memory, up to 7600+(OC) MHz
- Premium Thermal Solution: Extended Heatsink Design and M.2 Shield Frozr are built for high performance system and non-stop works
- 2.5G LAN and AMD Wi-Fi 6E Solution: Upgraded network solution for professional and multimedia use. Delivers a secure, stable and fast network connection
- Lightning M.2: Running at PCIe Gen 4 maximizes performance for NVMe based SSDs
- Lightning USB 20G: Built-in USB 3.2 Gen 2x2 port, offers 20Gbps transmission speed, 4X faster than USB 3.2 Gen 1
- Audio Boost: Reward your ears with studio grade sound

ABSOLUTE SIMPLICITY
B650M PROJECT ZERO moves the power connectors, fan connectors, and other pin headers to the back of the motherboard. This provides a cleaner and neater front view, allowing the motherboard, liquid cooler, and graphics card's aesthetic design to be fully displayed.

OPTIMIZED FOR WATER COOLING
Designed to support the most popular All-In-One & customized water cooling solutions on the market. A dedicated water pump PIN header supports up to 3 amp, giving you full control of the water pump speed. A clearly marked 'keep-out-zone' allows for easy and safe installation and a perfect fit.

DIRECT 10+2+1 PHASES POWER DESIGN
Unleash and sustain maximum performance with an aggressive VRM design built with digital CPU power system. Combining 8 + 8-pin power connectors and exclusive Core Boost technology, B650M PROJECT ZERO is ready to sustain heavy gaming loadings.

OPTIMIZED PCB SOLUTION
The PCB design has been optimized for higher bandwidth and faster transfer speeds, which is also beneficial for reliable circuit transmission.

Back-Connect Design
The B650M PROJECT ZERO features a back-connect design, which relocates the motherboard power, CPU power, fan pins, SATA, and other interfaces to the back of the motherboard. This allows for simpler cable management, while also providing a cleaner and more aesthetically pleasing appearance for the system.

Driver utility installer
Once connected to the internet, MSI Driver Utility Installer will detect and present suitable drivers and utilities automatically, you can download and install with just a few clicks.

Flash BIOS button
Run into trouble when updating your BIOS or somehow corrupted it? Don't worry, MSI motherboards offer multiple options to successfully boot your system again.

LIGHTNING GEN 4 PCI-E
MSI lightning Gen 4 PCI-E represents the bandwidth of a x16 interface to 64GB/s that has doubled compared to its previous generation.

Lightning Gen 4 PCI-e with Steel Armor
MSI PCI Express Steel Armor slots are secured to the motherboard with extra solder points and support the weight of heavy graphics cards. When every advantage in games counts, Steel Armor shields the point of contact from electromagnetic interference.

FAST AND FUTURE-READY STORAGE
MSI PROJECT ZERO series motherboards support all the latest storage standards, which allows users to connect any ultra-fast storage device. Start games faster, load levels faster and have a real advantage over your enemies.

LATEST DDR5 MEMORY WITH SMT SLOT
A huge step of DDR performance enhancement with the latest DDR5 memory. Combines with dedicated SMT welding process and MSI Memory Boost technology, B650M PROJECT ZERO is ready to deliver the world class memory performance.

EASY OVERCLOCKING WITH EXPO PROFILE
MSI conducts thorough memory testing with the most popular memory brands under extreme conditions to ensure your system runs stable no matter what. Easy to enable EXPO profile with auto power settings to get the best memory speed and stability.

Click BIOS 5
Get more from a loaded BIOS designed for ease of use. Fine-tune the motherboard for gaming performance, efficiency, or overclocking world records!

EXPO(EXtended Profiles for Overclocking)
Choose from a preset EXPO profile and automatically overclock compatible DDR memory.

Game Boost
Quickly overclock your CPU with a single button for more performance.

M-FLASH
Conveniently flash or upgrade the BIOS in a few minutes from the CMOS Setup Utility.

HARDWARE MONITOR
Get immediate access to your critical hardware information in real-time including temperature, memory capacity, clock speed, and voltage.

MEMORY TRY IT
Get extreme speed out of your system memory and get more performance.

SEARCH & FAVORITES
A permanent search & favorite option in the top right corner moves you through the BIOS menus quickly.

MSI Center
MSI brand new MSI Center unifies a suite of MSI software utilities into a single centralized application. Take control of advanced motherboards features and unleash endless possibilities.

Exclusive UI of AIDA64 Extreme
MSI motherboards provide 60 days free trial of AIDA64 Extreme - MSI edition. AIDA64 Extreme is an almighty application for system information, diagnostics and benchmarks. With the application, you can monitor the detailed hardware and software information on PC and save it to file in multiple formats such as CSV and HTML.

Resizable BAR
Resizable BAR (Re-Size BAR) is an advanced PCI Express feature that enables the CPU to access the entire GPU frame buffer at once and improve performance.

EXTEND YOUR RGB EXPERIENCE WITH EASE
Add more color if you want! Mystic Light Extension pin header provides an intuitive way to control additional RGB strips and other RGB peripherals added to a system, without needing a separate RGB controller.

HIGH-BANDWIDTH AND LOW-LATENCY NETWORK
MSI's premium network solution provides incredible data transfer speed for demanding users.

Specifications:

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Specifications	
Product Code	B650MPROJECTZERO
Chipset	AMD B650
CPU	Supports AMD Ryzen 9000/ 8000/ 7000 Series Desktop Processors
	Socket AM5

Memory	4x DDR5, Maximum Memory Capacity 256GB
	Memory Support DDR5 7600+(OC)/ 7400(OC)/ 7200(OC)/ 7000(OC)/ 6800(OC)/ 6600(OC)/ 6400(OC)/ 6200(OC)/ 6000(OC)/ 5800(OC)/ 5600(OC)/ 5400(OC)/ 5200(OC)/ 5000(OC)/ 4800(JEDEC) MHz
	Max. overclocking frequency:
	1DPC 1R Max speed up to 7600+ MHz
	1DPC 2R Max speed up to 6400+ MHz
	2DPC 1R Max speed up to 6400+ MHz
	2DPC 2R Max speed up to 5400+ MHz
Onboard Graphics	1x HDMI
	Support HDMITM 2.1 with HDR, maximum resolution of 4K 60Hz
	1x DisplayPort
	Support DP 1.4, maximum resolution of 4K 60Hz
	*Available only on processors featuring integrated graphics. Graphics specifications may vary depending on the CPU installed.
Slot	1x PCI-E x16 slot
	Supports x16 (For Ryzen 9000/ 7000 Series processors)
	Supports x8 (For Ryzen 8700/ 8600/ 8400 Series processors)
	Supports x4 (For Ryzen 8500/ 8300 Series processors)
	1x PCI-E x1 slot
	PCI_E1 Gen PCIe 4.0 supports up to x16 (From CPU)
	PCI_E2 Gen PCIe 3.0 supports up to x1 (From Chipset)
Audio	Realtek ALC897 Codec
	7.1-Channel High Definition Audio
	Supports up to 32-Bit/384 kHz playback on front panel
Storage	2x M.2
	M.2_1 Source (From CPU) supports up to PCIe 4.0 x4, supports 2280/2260 devices
	M.2_2 Source (From CPU) supports up to PCIe 4.0 x4, supports 2280/2260 devices
	4x SATA 6G
	The M2_2 slot will be unavailable when using Ryzen 8500/ 8300 Series processor
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
	* SATA_A1_A2 do not support RAID function.

USB	2x USB 2.0 (Rear)
	4x USB 2.0 (Front)
	2x USB 5Gbps Type A (Rear)
	2x USB 5Gbps Type A (Front)
	3x USB 10Gbps Type A (Rear)
	1x USB 10Gbps Type C (Rear)
	1x USB 10Gbps Type C (Front)
	1x USB 20Gbps Type C (Rear)
LAN	Realtek RTL8125BG 2.5Gbps LAN
Internal I/O	1x Power Connector(ATX_PWR)
	2x Power Connector(CPU_PWR)
	1x CPU Fan
	1x Pump Fan
	3x System Fan
	2x Front Panel (JFP)
	1x Chassis Intrusion (JCI)
	1x Front Audio (JAUD)
	3x Addressable V2 RGB LED connector (JARGB_V2)
	1x TPM pin header(Support TPM 2.0)
	4x USB 2.0 ports
	2x USB 5Gbps Type A ports
	1x USB 10Gbps Type C ports
WIRELESS LAN & BLUETOOTH	AMD Wi-Fi 6E
	The Wireless module is pre-installed in the M.2 (Key-E) slot
	Supports MU-MIMO TX/RX
	Supports 20MHz, 40MHz, 80MHz bandwidth in 2.4GHz/ 5GHz or 6GHz* bands
	Supports 802.11 a/ b/ g/ n/ ac/ ax
	Supports Bluetooth 5.3
	* Wi-Fi 6E 6GHz may depend on every country's regulations and will be ready in Windows 11.
	** Bluetooth 5.3 will be ready in Windows 10 build 21H1 and Windows 11.
LED FEATURE	4x EZ Debug LED

BACK PANEL PORTS	1. DisplayPort
	2. 2.5G LAN
	3. USB 2.0
	4. USB 5Gbps (Type-A)
	5. Wi-Fi / Bluetooth
	6. Audio connectors
	7. Flash BIOS Button
	8. Clear CMOS Button
	9. HDMI
	10. USB 10Gbps (Type-A)
	11. USB 10Gbps (Type-C)
	12. USB 20Gbps (Type-C)
OPERATING SYSTEM	Support for Windows 11 64-bit, Windows 10 64-bit
PCB Info	mATX
	243.84mmx243.84mm

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx.co.za/B650MPROJECTZERO-MSI-B650M-Project-Zero-B650-Chipset-AMD-Ryzen-AM5-Socket-mATX-Motherboard-p-320486.php

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