



**Mainboard
BIOSTAR AMD
B850 Socket
AM5 micro ATX
RAM DDR5-
SDRAM 2xSlots
Wi-Fi Yes
Bluetooth Yes
2xNumber of
M.2 (M) slots
B850MT2-EDJ**

Model: B850MT2-E DJ

Manufacturer: BIOSTAR

EAN: 4712960688414

Product Code: 1305757

R2,933

AMD B850 chipset

The AMD B850 platform is the foundation for next-generation gaming and content creation

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experiences. Featuring enhanced overclocking capabilities, DDR5 memory support with AMD EXPO™ Technology, and PCIe® 5 connectivity for NVME storage, the AMD B850 platform is ready to power your desktop for years to come.

HD Audio

Provides high quality sound with minimal loss of audio fidelity.

Hi-Fi Ground

BIOSTAR Hi-Fi Ground (Golden Line) is noise-blocking multi-layer PCB design to isolates analog audio signals from digital sources. Unique PCB layout is ideal for exceptional clarity and high fidelity sound.

DisplayPort

DisplayPort is a digital display interface developed by the Video Electronics Standards Association (VESA). The interface is primarily used to connect a video source to a display device such as a computer monitor, though it can also be used to carry audio.

DX12

DirectX 12 introduces the next version of Direct3D, the graphics API at the heart of DirectX. Direct3D is one of the most critical pieces of a game or game engine, and we've redesigned it to be faster and more efficient than ever before. Direct3D 12 enables richer scenes, more objects, and full utilization of modern GPU hardware.

HDMI® 2.1

HDMI® 2.1 supports true 4K resolution- 4096*2160@120hz. A significant increase in bandwidth is up to 18mbps, and significant enhancements are added to support the continued increase consumer demands on video and audio experience.

SATAIII 6Gbps

SATAIII 6Gbps provides a higher bandwidth to retrieve and transfer HD media. With this super speed data transfer, SATAIII allows an incredible data boost which is 2x faster than the SATA II.

DDR5

DDR5 provides 50% higher bandwidth than DDR4, the frequency can be up to 6000+(OC)MHz, and

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can boasts the largest memory capacity available. It also supports dual channels and has lower power consumption, which can provide better performance and experience for overclockers.

PCIe 4.0

PCIe 4.0 is the ubiquitous and general-purpose PCI Express I/O standard. At 16GT/s bit rate, the interconnect performance bandwidth is doubled over PCIe 3.0, while preserving compatibility with software and mechanical interfaces.

PCIe 4.0 M.2

PCIe 4.0 M.2 delivers the highest bandwidth and lower latency. It is 2 times faster compared with PCIe 3.0 M.2.

USB 3.2 Gen2 Type-C

USB 3.2 Gen2 offers up to double the transfer speed of USB 3.2 Gen1 at 10 Gbps that allows for much higher data transfer rates and more efficient data transfer. And the Type-C connector is reversible so it's easier to plug in.

USB 3.2 Gen1 Type-A

USB 3.2 Gen1 delivers a compelling performance boosts and can be used to connect multiple devices without worrying about compatibility. It is capable of data transfer speeds up to 5Gbps and backwards compatible with all existing USB products.

Digital PWM

Digital PWM controller is with dual-output multiphase that faster transient performance and accurately regulated frequency control. It can be enabled to greatly increase system efficiency.

2.5 GbE LAN

The 2.5 GbE LAN offers faster transmission speeds compared to traditional 1 GbE LAN and is currently the mainstream transmission speed. It enhances data transmission speeds among devices within a local area network, making it particularly suitable for scenarios requiring large-scale data transfer.

Super Durable Solid Caps

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The best quality solid state capacitors with ultra low ESR design, the Super Durable Solid Caps doubles the lifespan.

Iron Slot Protection

The exclusive Iron Slot Protection can reinforce PCI-E x16 slots to handle heavier graphics cards, prevent bending, and extend longevity of the slot, making the new-gen RACING Series much more robust.

Super Durable Inductor

Super Durable Inductor brings the benefits of higher current capacity, lower energy loss and better power stability.

Moistureproof PCB

The PCB will be oxidizing easily by damp or absorbed moisture, and ionic migration or CAF (Conductive Anodic Filament) will be generated. Moistureproof PCB meets high density and high reliability requirements for moisture proof.

ESD Protection

ESD (Electrostatic Discharge) is the major factor to destroy the PC by electrical overstress (EOS) condition. ESD occurred by PC users when touch any devices connect to a PC, which may result in damage to the motherboard or parts. ESD protection is designed to protect the motherboard and equipment from damage by EOS.

OC / OV / OH Protection

OC / OV / OH Protection design detects overvoltage conditions and prevents voltage surges from spreading in real time. It also actively cuts off the overvoltage supply to protect your system.

VIVID LED DJ

The VIVID LED DJ has launched a brand-new interface that offers better compatibility with peripheral devices, delivering the best lighting experience to users and allowing them to create a unique personal style.

UEFI BIOS

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Unified Extensible Firmware Interface (UEFI) is a brand new framework that provides a revolutionary interface. It is a modern clear and easy-to-use graphical user interface. The UEFI comes with a colorful easy-understand icons lead users into the setup layer directly.

BIO-Flasher

BIO-Flasher is a convenient BIOS update tool. Just launch this tool and put the BIOS on USB pen driver before entering the OS. You can update your BIOS with only a few clicks without preparing an additional floppy disk or other complicated flash utility.

A.I FAN

With A.I FAN users can ensure that their gaming PC can maintain its performance while staying cool. According to different cooling needs and usage scenarios, users can control speed modes. Allows users to have more customizability of fan modes and automatically detects different temperatures to make fan operate at defined speed for optimal cooling performance.

LED ROCK ZONE

LED ROCK ZONE comes with the RGB 12V LED header and Digital 5V LED header which offer more colorful lighting options to DIY lovers. Adjusting the color of LED and changing system colors by VIVID LED DJ will make you fully enjoy the process of PC modding developing your personal style.

BIOSTAR RGB SYNC

BISOTAR RGB SYNC is designed to create your personalized lighting effects. Let all the RGB peripherals and components sync together.

Debug LED

Debug LED helps you identify any issues going with your board or hardware. When error occurs, the corresponding LED lights will inform you on the status of your board or hardware to shorten the test time effectively.

A.I TP Control

A.I TP Control is designed for overclockers. It provides a user-friendly BIOS environment that overclockers can adjust the temperature setting to keep your PC safe and enjoy extreme overclocking performance.

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Smart Update

Biostar Smart Update is a utility that can help users run online update. It can download the drivers for your motherboard from Biostar official website and install them automatically.

SMART BIOS UPDATE

The easiest way to update the BIOS is provided.

Connect the USB driver to the SMART BIOS USB port to update.

Auto Installer

The Auto Installer is capable of automatically installing the required drivers on Windows OS, providing users with a more intuitive and convenient experience, eliminating the hassle of manually searching for drivers.

HDMI®

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- Supports AMD Ryzen™ 9000 / 8000 / 7000 series Processors
- AMD B850 single chip architecture
- Supports 2-DIMM DDR5 up to 128 GB Memory
- Supports PCIe 4.0 M.2
- Supports HDMI® & Display Port
- Supports 2.5 GbE LAN
- Supports USB 3.2 Gen2 Type C
- Supports WiFi 7 & 6E module (No WiFi card included)

Summary: Biostar B850MT2-E DJ. Processor manufacturer: AMD, Processor socket: Socket AM5, Compatible processor series: AMD Ryzen 9000 Series, AMD Ryzen 8000 Series, AMD Ryzen 7000 Series. Supported memory types: DDR5-SDRAM, Maximum internal memory: 128 GB, Memory slots type: DIMM. Supported storage drive interfaces: SATA III, PCI Express 4.0, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. USB connector type: USB Type-A. Ethernet interface type: Fast Ethernet, Gigabit Ethernet, 2.5 Gigabit Ethernet, LAN controller: Realtek RTL8125D, Top Wi-Fi standard: Wi-Fi 7 (802.11be) | [Vendor Homepage:](#)

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https://www.biostar.com.tw/app/en/mb/introduction.php?S_ID=1177 | Audio chip: Realtek ALC897 | Audio output channels: 7.1 | Component for: PC | Motherboard chipset: AMD B850 | Motherboard chipset family: AMD | Motherboard form factor: micro ATX | Product colour: Black | Windows operating systems supported: Windows 10 x64/Windows 11 x64 | Compatible processor series: AMD Ryzen 7000 Series/AMD Ryzen 8000 Series/AMD Ryzen 9000 Series | Processor manufacturer: AMD | Processor socket: Socket AM5 | Supported processor sockets: Socket AM5 | ECC compatibility: Non-ECC | Maximum internal memory: 128 | Memory channels: Dual-channel | Memory slots type: DIMM | Number of memory slots: 2 | Supported memory clock speed (max): 8000 | Supported memory types: DDR5-SDRAM | Unbuffered memory: Yes | Number of storage drives supported: 4 | RAID levels: 0/1/10 | RAID support: Yes | Supported storage drive interfaces: SATA III,PCI Express 4.0 | Supported storage drive types: HDD & SSD | DirectX version: 12.0 | HDCP: Yes | Parallel processing technology support: Not supported | ATX Power connector (24-pin): Yes | CPU fan connector: Yes | EPS power connector (8-pin): Yes | Front panel audio connector: Yes | Front panel connector: Yes | Number of COM connectors: 1 | Number of CPU fan connectors: 1 | Number of EPS power connectors (8-pin): 1 | Number of SATA III connectors: 2 | RGB LED pin header: Yes | TPM connector: Yes | USB 2.0 connectors: 2 | USB 3.2 Gen 1 (3.1 Gen 1) connectors: 1 | USB 3.2 Gen 2 (3.1 Gen 2) connectors: 1 | DisplayPort version: 1.2 | DisplayPorts quantity: 1 | Ethernet LAN (RJ-45) ports: 1 | HDMI ports quantity: 1 | HDMI version: 2.1 | Headphone outputs: 3 | Microphone in: Yes | USB 2.0 ports quantity: 2 | USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity: 4 | USB connector type: USB Type-A | WiFi-AP antenna jack: 2 | Bluetooth: Yes | Ethernet interface type: 2.5 Gigabit Ethernet/Fast Ethernet/Gigabit Ethernet | Ethernet LAN: Yes | LAN controller: Realtek RTL8125D | Top Wi-Fi standard: Wi-Fi 7 (802.11be) | Wi-Fi: Yes | 1st M.2 highest PCI Express generation: 4.0 | 1st M.2 largest key size: 2280 | 2nd M.2 highest PCI Express generation: 4.0 | 2nd M.2 largest key size: 2280 | Number of M.2 (M) slots: 2 | PCI Express x16 (Gen 4.x) slots: 1 | PCI Express x4 (Gen 4.x) slots: 1 | BIOS type: UEFI AMI | Clear CMOS jumper: Yes | Depth: 244 | Width: 235 | Cables included: SATA | Product Net Weight: 0.7 | Shipping Box Height: 28.5 | Unit Calculated Volume: 0.005423 | Unit Calculated Weight: 1.1 | Units per Shipping Box: 10 | Model: B850MT2-E DJ

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