B850MT2-E DJ Motherboard



- 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)

Specifcation

CPU SUPPORT	Socket AM5 AMD Ryzen™ 9000 / 8000 / 7000 series Processors Support future AMD Ryzen processors with BIOS update * Please refer to www.biostar.com.tw for CPU support list.
MEMORY	AMD Ryzen™ 9000 / 8000 / 7000 Series Processors: Supports DDR5 8000+(OC) MT/s, Non-ECC, Un-buffered Memory 2 x DDR5 DIMM Memory Slots Max. supports up to 128 GB Memory Support Intel® Extreme Memory Profile (XMP) memory modules and AMD EXTended Profiles for Overclocking (EXPO) memory modules * Please refer to www.biostar.com.tw for Memory support list.
INTEGRATED VIDEO	By CPU model Supports DX12 Supports HDCP
STORAGE	Total support 2 x M.2 Socket and 2 x SATA III (6Gb/s) port AMD Ryzen 9000 / 8000 / 7000 Series Processors 1 x M.2 (Key M2) Socket (M2M_CPU): Support M.2 Type 2260/2280 SSD module Support PCIe 4.0 x 4 (64Gb/s) - NVMe SSD AMD B850 Chipset 1 x M.2 (Key M2) Socket (M2M_SB): Support M.2 Type 2280 SSD module Support PCIe 4.0 x 4 (64Gb/s) - NVMe SSD 2 x SATA III Connector (6Gb/s): Supports AHCI & RAID 0, 1, 10
LAN	Realtek RTL8125D 10/ 100/ 1000/ 2500 Mb/s auto negotiation, Half / Full duplex capability
AUDIO CODEC	Realtek ALC897 7.1 Channels, High Definition Audio, Hi-Fi (Front)
USB	1 x USB 3.2 (Gen2) Type-C port (via internal header) 4 x USB 3.2 (Gen1) port (4 on rear I/O and 2 via internal header) 6 x USB 2.0 port (2 on rear I/O and 4 via internal header)

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EXPANSION SLOT	AMD Ryzen 9000 / 8000 / 7000 Series Processors 1 x PCIe 4.0 x16 Slot (x16 mode) AMD B850 Chipset 1 x PCIe 4.0 x4 Slot (x4 mode)
REAR I/O	2 x WiFi Antenna Port 4 x USB 3.2 (Gen1) Port 2 x USB 2.0 Port 1 x 2.5 Gigabit LAN port 3 x Audio Jack 1 x SMART BIOS UPDATE Button 1 x SMART BIOS USB Port 1 x HDMI® Port (HDMI®2.1) 1 x DP Port (DP1.2)
INTERNAL I/O	2 x SATA III Connector (6Gb/s) 1 x M.2 (E Key) Socket : Supports 2230 type Wi-Fi & Bluetooth module 1 x USB 3.2 (Gen2) Type-C Port ach header supports 1 USB 3.2 (Gen2) Type-C port) SB 3.2 (Gen1) Header (ea header supports 2 USB 3.2 (Gen1) ports) B 2.0 Header ach he supports 2 USB 2.0 ports) x 8-P er Connector 1 x Power Connector 1 Fan tor PU onnector (CPU_OPT) 1 x Sys Fa r 1 x Fro l He 1 x Fro io Hea 1 x Spe Clear 1 x COM Port Header 1 x TPM Header 2 x LED Header (5V) 1 x LED Header (12V) * M.2 (E Key) Wi-Fi card not provided
RAID	Supports RAID 0, 1, 10 for SATA storage devices Supports RAID 0, 1, 10 for NVMe storage devices
DIMENSION	Micro ATX Form Factor: Dimension: 23.5cm x 24.4cm (W x L)
OS SUPPORT	Supports Windows 10(64bit) Windows 11(64bit) ※Biostar reserves the right to add or remove support for OS with or without notice.
ACCESSORIES	2 x SATA Cable 1 x I/O Shield 1 x WiFi antenna accessories(Wi-Fi accessories are optional. Contact your local dealer to purchase.)

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OVERVIEW

AMD B850 chipset

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



D 2

X 12 introduces the next version of Direct3D, the graphics API at the heart f Direct ect3D is one of the most critical pieces of a game or game engine, nd w edesigned it to be faster and more efficient than ever before. Dir 12 enables richer scenes, more objects, and full utilization of modern ardw



HDM 2.1

HDMI® suppor 4K resolution- 4096*2160@120hz. A significant increas andwid up to 18mbps, and significant enhancements are added to suppo and in consumer demands on video and audio experience.



SATAIII 6Gbps

SATAIII 6Gbps provide higher andwidth retrieve and transfer HD media. With this super speed d trans SATAIII a an incredible data boost which is 2x faster tha the SATA



DDR5

DDR5 provides 50% high andwidt DDR4, the frequency can be up to 6000+(OC)MHz, and can bo the lar est memory ca ailable. It also supports dual channels and h ower power co , w can provide better performance and experienc or over



PCIe 4.0

PCIe 4.0 is the ubiquitous and general-purpose PCI Exp O sta . At 16GT/s bit rate, the interconnect performanc andwidth do er PCIe 3.0, while preserving compatibility with softwar and mecha ite s.



PCIe 4.0 M.2

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

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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 GbE LAN

2.5 GbE LAN offers faster transmission speeds compared to traditional 1 GbE LAN and 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

The best quality solid state capacitors with ultra low ESR design, the Super Durable Solid Caps reduces 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 RAGNOR Series motherboards 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 migration or CAF (Conductive Anodic Filament) will be generated. Moistureproof PCB meets high density and high reliability requirements for moistureproof.



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.

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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

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 to the setup layer directly.



BIOS Flasher

BIOS Flasher is a convenient BIOS update tool. Just launch this tool and put the BIOS on the screen driver before entering the OS. You can update your BIOS with only a few clicks without preparing an additional floppy disk or other complicated flashing 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 the fan modes. Allows users to have more customizability of fan modes and freely define different temperatures to make fan operate at desired speed for optimal cooling performance.



LED ROCK ZONE

LED ROCK ZONE comes with three RGB 12V LED header and Digital 5V LED header which offer more colorful lighting options to PC lovers. Adjusting the color of LED and changing system colors with LED 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 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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*The specifications and pictures are subject to change without notice and the package contents may differ by area or your motherboard version!

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