

Asrock X870E Taichi



Artikel
Herstellernummer
EAN
Asrock

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Taichi series flagship motherboard features top-tier hardware spec, robust power design, USB4 Type-C, and DIY-friendly functionality. It's built for high-end gamers, offering luxury aesthetics and powerful performance.

PHILOSOPHY OF INFINITE POTENTIAL

Taichi represents the philosophical state of undifferentiated absolute and infinite potential. A motherboard that fulfills every task – with style! Become like water. Shapeless, formless, versatile for any situation.

Performance

Optimized VRM Design

Exclusive 20K Cap with 1000uF Capacitance

The upgraded 20K Black capacitor not only extends the lifespan to 20,000 hours but also increases the capacitance value from 560uF to 1000uF, bringing several benefits:

- Higher Capacitance: Greater charge storage for better support under high loads.
- Lower Ripple: Reduced power output fluctuations, improving quality.
- More Stable Output Current: Stable power supply, minimizing voltage impacts.
- Better Performance & System Stability: Increased reliability and consistent performance.

24+2+1 Power Phase Design

Featuring sturdy components and completely smooth power delivery to the CPU. Plus, it offers unmatched overclocking capabilities and enhanced performance with the lowest temperature for advanced gamers as well.

SPS (Smart Power Stage)

Dr.MOS design features the latest SPS (Smart Power Stage) technology. It's optimized for monitoring current and temperature of each phase, thus delivering smoother and neater power to the CPU with enhanced performance and OC capability.

Hi-Density Power Connector

CPU overclocking requires higher current, ASRock Hi-Density Power connectors is able to withstand current higher traditional CPU 8-pin and ATX 24-pin connector, giving a more stable system as well as lowering the risk of fire under heavy overclocking.

PREMIUM PCB SOLUTION

Server Grade Low Loss PCB

The server grade low loss PCB improves signal integrity, allowing motherboard to support PCIe 5.0 for both graphics card and M.2 SSD, it also improves memory OC potential to deliver the most extreme memory performance.

2oz Copper PCB

2 ounce copper inner layers that provide stable signal traces and power shapes! Delivering lower temperature and higher energy efficiency for overclocking.

8 Layer PCB

The 8 Layer PCB provides stable signal traces and power shapes delivering lower temperature and higher energy efficiency, ensures a reliable and long-lasting system while delivering ultimate performance without any compromise.

DDR5 XMP & EXPO Support

Derived from the “built for stable and reliable” designing concept, ASRock does not compromise on any details. This motherboard is built with high quality materials, enthusiasts are able to enjoy the boost of DDR5 memory overclocking performance by enabling the pre-tested profiles. Make sure the memory modules are Intel® XMP/AMD EXPO™ capable and overclocking can be made so affordable, satisfying and absolutely no sweat at all.

* There are certain risks involved with memory overclocking and may affect your system's stability. Please realize that overclocking should be done at your own risk and expense. EXPO/XMP profile support may vary by different system configuration, memory modules and motherboard models. Please refer to Memory QVL for the completed support list.

High Speed M.2 Solution

PCIe Gen5 Blazing M.2

The Blazing M.2 accommodates the latest PCI Express 5.0 standard to perform twice the bandwidth compared to previous generation, with a breathtaking 128GB/s transfer speed, it is ready to unleash the full potential of future ultrafast SSDs.

DIY Friendly Design

ASRock redesigned the PCIe slot installation method to cater to user needs, allowing for hassle-free installation and removal of the graphics card effortlessly.

Besides the M.2 SSD toolless design on the motherboard, ASRock up a notch by introducing this industry first M.2 heatsink quick release mechanism on the motherboard. The user friendly toolless design helps installing M.2 SSD super easy & simple.

The M.2 bottom heatsink is able to dissipate heat of the M.2 SSD efficiently through the motherboard PCB, maximize performance while maintaining system stability.

Enlarged M.2 Heatsink

The extra large aluminum alloy M.2 heatsink effectively improves heat dissipation to keep those high speed M.2 SSDs as cool as possible, it is able to give better stability while maintaining top performance.

Tired of dropping screws or screws missing inside chassis?

The enhanced M.2 heatsink with anti-drop screw design that make sure installation process more easily.

Cooling

Intelligent Cooling Design

Aluminum Heatsink

The first thing that catches the eye is the optimized Aluminum Heatsink Design. Heatsinks are crucial for efficient heat dissipation, especially during heavy workloads like gaming or productivity tasks. Motherboard that built with heatsinks can effectively manage thermal performance, hence ensure system stability and durability effortlessly.

Composite VRM Heatsink

It is equipped with a composite VRM heatsink combining a cooling fan, bigger aluminum sink and heat pipe for maximum heat dissipation.

Connectivity

Wi-Fi 7

Enhanced VR Experience

Wi-Fi 7 offers higher data throughput, lower latency, and Multi-link Operation. These features ensure a smooth and real-time interactive experience, making the VR/AR experience more immersive and connected.

Wi-Fi 7 802.11be

Latest Wi-Fi 7 technology delivers extreme wireless internet speeds and low latency, with higher throughput and Multi-RU as well as puncturing technology. The new Wi-Fi 7(802.11be) technology is able to accelerate cloud-based gaming, 8K video streaming, and video conferencing.

Multi-link Operation(MLO)

Multi-link Operation (MLO) enables the simultaneous use of multiple bands and channels, boosting speed and throughput while

reducing latency for a smoother, faster internet experience.

New Wi-Fi Antenna Design

The new Wi-Fi antenna design is ideal for high-bandwidth, low-latency applications and ensures a stable connection.

Enhanced USB4 Type-C

USB4 technology brings speed and versatility to the most advanced USB Type-C, offering a fast and simple level of connection for work or home. It enables lightning-fast 40Gbps data transfer bitrate.

Optimized 5 Gb/s LAN

ASRock's 5Gb/s LAN Connector features an exclusive, patent-pending design, boasting superior electromagnetic interference resistance, ensuring high-speed stable performance and providing users with a better networking experience.

Front Panel USB 3.2 Gen2x2 Type-C Header

The latest USB 3.2 Gen2x2 Type-C delivers up to 20 Gbps data transfer rate which is 2x as fast as previous generation, providing a blazing fast data transfer interface with reversible USB Type-C design that fits the connector either way.

More than USB Transfer Speed

Aimed for die hard gamers and enthusiasts! Lightning Gaming Ports are sourced from two different controller interfaces that assist gamers in connecting the high speed mice/keyboard with the lower jitter and latency!

Provides stable power and better sound experience! Ultra USB Power provides 5V power transformed from +12V power rail, whose voltage drop will be much lower than the +5V from the PSU under heavy loading, and prevents noise from other devices or RGB LED.

High Definition Sound Effects

ESS SABRE9219 DAC

Embrace the audio stunning performance with ES9219 SABRE DAC!

- True Hi-Fi Audio. No distorted digital signal
- 130dB SNR
- 114dB THD+N and supports higher impedance up to 600 Ω headphone

WIMA Audio Cap

Optimized for high end audio applications! Deliver crystal and balanced sound to satisfy even the pickiest audiophile.

Nahimic Audio

Whether you are using headphones, a headset, external or internal speakers, via USB, Wi-Fi, analog output or even HDMI, Nahimic Audio offers you the most engaging listening experience, vibrant and rich with details.

Enhance Communication Quality

The Powerful algorithms to ensure the best noise-free conversation, giving a constant vocal level no matter the distance from your mic. The Nahimic audio engine dynamically clear the sound and remove interference noise and lower the voice variation. Result is a better comprehension and less fatigue.

- Static Noise Suppression
- Echo Cancellation
- Lateral Sound Cancellation
- Voice Stabilizer

Ultimate Gaming Experience

- Sound Tracker

The Sound Tracker is a visual indicator that points out the directions from which predominant sounds are coming. Each sound is properly positioned in 360° on a radar for a full immersion during the game.

- Works on any devices!

Enjoy the vibrant and high-quality Surround Sound on all your favorite audio devices: Jack, USB, Bluetooth, HDMI, S/PDIF. Nahimic is compatible with all of your favorite audio tools and ensures the best sound with any of them. Nahimic measure and improve to optimize our technology and offer you the best experience.

Stylish Design

POLYCHROME RGB

This motherboard features onboard RGB headers and addressable RGB headers that allow motherboard to be connected to compatible LED devices such as strip, CPU fans, coolers, chassis and so on. Users may also synchronize RGB LED devices across the Polychrome RGB Sync-certified accessories to create their own unique lighting effects.

DIY Friendly

Deluxe Accessories

ARGB Splitter Cable

The ARGB Splitter Cable enables easy management of multiple ARGB devices through a single controller. With its splitting capability, it streamlines your lighting setup for a unified and dynamic aesthetic.

Customized Thermal Management

The thermistor cable and thermistor header provide an additional source for temperature monitoring, offering customized thermal management solutions.

Reinforced Steel Slot

[PCIe 5.0 Version]

The reinforced steel slot is capable of supporting PCI Express 5.0 standard. The various benefits include:

- Extra anchor points
- Stronger latch
- Ensure signal stability
- Make sure heavy graphics cards to be well-installed.

EZ Setting

Auto Driver Installer

No need to worry about lack of disk drive! Asrock preinstall LAN driver to ensure that you are able to install all drivers needed in an easier way than using SCD.

- step1 : Install Auto Driver Installer
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BUILD FOR THE MOST ADVANCED PC FOR GAMING AND CREATING

When only the fastest will do, an AMD X800-series motherboard delivers. With USB 4.0 onboard along with robust overclocking¹ capabilities, featuring faster dual-channel DDR5 memory support, AMD EXPO™ technology and PCIe® 5.0 support for both graphics and NVMe, you can play the most demanding games and deliver your biggest projects with the revolutionary performance of an AMD X800-series motherboard and AMD Ryzen™ 9000, 8000, and 7000 Series processors.

Zusammenfassung

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Asrock X870E Taichi, AMD, Socket AM5, AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series, DDR5-SDRAM, 256 GB, DIMM

Asrock X870E Taichi. Processor manufacturer: AMD, Processor socket: Socket AM5, Compatible processor series: AMD Ryzen 7000

Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series. Supported memory types: DDR5-SDRAM, Maximum internal memory: 256 GB, Memory slots type: DIMM. Supported storage drive interfaces: M.2, SATA III, Supported storage drive types: HDD & SSD, RAID levels: 0, 1, 10. Ethernet interface type: 2.5 Gigabit Ethernet, 5 Gigabit Ethernet, Fast Ethernet, Gigabit Ethernet, LAN controller: Realtek RTL8126, Top Wi-Fi standard: Wi-Fi 7 (802.11be). Component for: PC, Motherboard form factor: Extended ATX, Motherboard chipset family: AMD

Merkmale

Expansion slots

PCI Express x16 (Gen 5.x) slots	2
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Graphics

HDCP	Yes
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Packaging content

Antenna included	Yes
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Weight & dimensions

Width	305 mm
Depth	267 mm

BIOS

BIOS type	UEFI AMI
BIOS memory size	256 Mbit
Clear CMOS button	Yes

Processor

Processor manufacturer	AMD
Processor socket	Socket AM5
Compatible processor series	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series

Storage controllers

Supported storage drive types	HDD & SSD
Supported storage drive interfaces	M.2, SATA III
RAID support	Yes
RAID levels	0, 1, 10

Memory

Supported memory types	DDR5-SDRAM
Number of memory slots	4
Memory slots type	DIMM
Memory channels	Dual-channel
ECC compatibility	ECC & Non-ECC
Supported memory clock speed (max)	8200 MHz
Maximum internal memory	256 GB
Unbuffered memory	Yes

Network

Ethernet LAN	Yes
Ethernet interface type	2.5 Gigabit Ethernet, 5 Gigabit Ethernet, Fast Ethernet, Gigabit Ethernet
LAN controller	Realtek RTL8126
Wi-Fi	Yes
Top Wi-Fi standard	Wi-Fi 7 (802.11be)
Wi-Fi standards	802.11a, 802.11b, 802.11g, Wi-Fi 4 (802.11n), Wi-Fi 5 (802.11ac), Wi-Fi 6 (802.11ax), Wi-Fi 6E (802.11ax), Wi-Fi 7 (802.11be)
Bluetooth	Yes
Bluetooth version	5.4

Rear panel I/O ports

USB 2.0 ports quantity	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-3 A ports quantity	
USB 3.2 Gen 2 (3.1 Gen 2) Type-5 A ports quantity	
USB4 Gen 3x2 ports quantity	2
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity	1
Microphone in	Yes
S/PDIF out port	Yes

Features

Motherboard chipset	AMD X870E
Audio chip	Realtek ALC4082
Audio output channels	5.1 channels
Product colour	Multicolour
Component for	PC
Motherboard form factor	Extended ATX
Motherboard chipset family	AMD
Windows operating systems supported	Windows 10 x64, Windows 11 x64
Certification	- FCC, CE - ErP/EuP ready

Internal I/O

USB 2.0 connectors	2
USB 3.2 Gen 1 (3.1 Gen 1) connectors	2
USB 3.2 Gen 2x2 connectors	1
Number of SATA III connectors	6
Front panel audio connector	Yes
ATX Power connector (24-pin)	Yes
CPU fan connector	Yes
Number of CPU fan connectors	2
Number of chassis fan connectors	4
EPS power connector (8-pin)	Yes
12V power connector	Yes
RGB LED pin header	Yes

Preisänderungen und Irrtümer vorbehalten. Alle Produkte solange der Vorrat reicht.