MEG X570S ACE MAX

MSI AM4 MEG X570S ACE MAX AMD X570 Chipset AM4 Socket AMD Ryzen 5000/4000/3000/2000/G-Series ATX Motherboard

Product Overview

MSI AM4 MEG X570S ACE MAX AMD X570 Chipset AM4 Socket AMD Ryzen 5000/4000/3000/2000/G-Series ATX Motherboard, 4x DDR4 memory slots, support up to 128GB, Supports 1866/ 2133/ 2400/ 2667/ 2800/ 2933/ 3000/ 3066/ 3200 MHz by JEDEC, 1x 24-pin ATX main power connector, 2x 8-pin ATX 12V power connectors, 8x SATA 6Gb/s connectors, 4x M.2 slots (M-Key), 2x USB 2.0 connectors (support additional 4 USB ports), 2x USB 3.2 Gen 1 5Gbps connectors (support additional 4 USB ports), 1x USB 3.2 Gen 2 10Gbps Type-C connector, 1x 4-pin CPU fan connector, 1x 4-pin water-pump connector, 6x 4-pin system fan connectors, 1x Front panel audio connector, 2x System panel connectors, 1x TPM module connector, 1x Chassis Intrusion connector, 2x 2-pin Thermal sensors connectors, 1x Water Flow Meter connector, 1x Tuning Controller connector, Clear CMOS Button, 3 x USB 2.0, 4 x USB 3.2 Gen 1 5Gbps (Type-A), Wi-Fi / Bluetooth, 2.5G LAN, HD Audio Connectors, Flash BIOS Button, 3 x USB 3.2 Gen 2 10Gbps (Type-A), USB 3.2 Gen 2x2 20Gbps (Type-C), Optical S/PDIF-Out, ATX Form Factor, 30.5 cm x 24.4 cm



Specifications

Features:

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.

THERMAL SOLUTION FOR MORE CORES AND HIGHER PERFORMANCE
With more cores' processors, thermal and power design is more important to make sure the temperature keeps lower. MSI extended PWM heatsink and enhanced circuit design ensures even high-end CPU to run in full speed with MSI motherboards.

DOUBLE SIDE M.2 SHIELD FROZR
World's fastest SSDs can start to lower performance when getting hot. Part of the motherboards heatsink design, the double side M.2 Shield Frozr is the next generation M.2 thermal solution to avoid this by offering the best thermal protection to make sure that SSD maintains maximum performance.

FULLY CONTROLLABLE IN BIOS AND SOFTWARE
MSI motherboards let you manage speeds and temperatures for all your system and CPU fans. Total Fan Control allows you

check your primary system characteristics in a simplified graphical interface. You can also set up to 4 temperature targets for CPU and motherboard, which will adjust the fan speeds automatically.

AUTODETECT DC OR PWM MODE WITH HYSTERESIS
MSI fan headers automatically detect fans running in DC or PWM mode for optimal tuning of fan speeds and silence. Hysteresis also makes your fans spin up fluently to make sure your system stays silent, no matter what.

FROZR AI COOLING
Detecting CPU & GPU temperatures and automatically adjusting fan duty of system fans to a proper value by adopting MSI AI ENGINE.

DIY 2.0 - INTEGRATING WITH THE SYSTEM ENVIRONMENT
Connect and synchronize with MSI coolers and cases with strategically positioned pin-header locations including a dedicated pump-fan header.

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 16+2 PHASES POWER DESIGN
Unleash and sustain maximum performance with a flagship VRM design built with a total of direct 16+2 digital power phases. Combining dual power connectors and 90A Smart Power Stage, MEG X570S ACE MAX is ready for breaking the world record.

CORE BOOST
Core Boost technology combines MSI's premium layout and digital power design which allows for faster and undistorted current delivery to the CPU at pin-point precision. This creates the perfect conditions for multi-core CPU while high-loading operation.

1-SECOND OVERCLOCKING!
MSI Game Boost enables one-second overclocking, giving you the performance boost you need to get more FPS.

LOAD-LINE CALIBRATION
What you set, is what you get. LLC makes sure your CPU voltage remains 100% stable under any load. This greatly improves stability when demanding more CPU performance.

OVERVOLTAGE PROTECTION
Prevents potential short-circuit damage to the CPU and other critical components.

DIGITALL POWER DESIGN
A fully digital power design allows for faster and undistorted current delivery to the CPU at pin-point precision. Creating the perfect conditions for CPU overclocking.

DOUBLE POWER CONNECTORS
Two 8-pin connectors deliver adequate power even for an overclocked multi-core CPU.

PRE-INSTALLED IO SHIELD
Featuring the pre-installed IO shield, makes your installation process easier and safer. The patent-pending design protect your IO ports and also prevent electrostatic discharge damage, makes your motherboard a strong gaming foundation.

BOOT UP GUARANTEED
Having trouble with updating the BIOS or somehow corrupted it? Don't worry! With System-Saver, use one of 3 easy to use

options to successfully boot your system again.

Clear CMOS
Restore the BIOS to the default settings - helpful in 99% of the cases to successfully boot again.

Flash BIOS Button
Flash the BIOS with only a connected power supply by following a few steps. CPU and memory not required.

Dual BIOS
Two physical BIOS chips allow a fallback to plan B.

Keep out zone
MSI motherboards circuitry ensure the case standoff keep out zones are pure and clean, preventing any component contact or damage to the motherboard.

XL CLIP
The enlarged PCI-E clip helps you swap or remove your devices easier. Keep the PCI-E slot stronger and safer.

EZ DEBUG LED
Run into trouble? Onboard LEDs for key components will indicate the source of the problem so you know exactly where to look to get up and running again.

DEBUG LED
Run into trouble? The digital LED display will display the startup sequence code so you know exactly where to look to get up and running again.

EZ LED CONTROL
A built-in LED button on the motherboard to control your light effect. Turn on/off your light in a second!

PCB WITH 2OZ THICKENED COPPER
An enhanced PCB design with 2oz thickened copper increases conductivity, improving heat dissipation and performance reliability especially during overclocking.

FORTIFY YOUR SYSTEM WITH PCI-E 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.

ULTIMATE MOTHERBOARD PROTECTION
Double ESD protection doubles up the grounding layer around the mounting holes, preventing static discharge surges from damaging the motherboard.

LIGHTNING GEN 4 SUPPORT, READY 4 THE FUTURE !!!
MEG X570S series motherboards adopt tons of components, enhanced layout placement and PCB design dedicated for PCI-E Gen 4 solution, ensure the higher bandwidth and faster transfer speeds stability, ready 4 the future!

SUPER STABLE GAMING WITH THE HIGHEST QUALITY COMPONENTS
MSI uses high quality components rated for reliable operation even under extreme conditions.

TITANIUM CHOKE III
Ti choke III has 30% improved power delivery efficiency compared to its predecessor, allowing for improved overclocking stability

90A SMART POWER STAGE
Next-gen 3-in-1 Mosfet package capable of delivering more power at precise timings with fewer components.

SOLID CAP
Japanese made Solid CAPs are built for high-reliability motherboards with their aluminum core design. These capacitors have low Equivalent Series Resistance (ESR) and are rated to work for more than 10-years.

CERTIFIED FOR GAMING
MSI motherboards has been built and tweaked for hardcore gaming. Feedback from the world's best esports players and rigorous testing sessions with demanding PC games has resulted in a motherboard that's both powerful and reliable.

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.

LIGHTNING GEN 4 M.2
Utilizing 3rd Gen Ryzen processors, MSI X570S motherboards feature latest Lightning Gen 4 M.2 which is the fastest onboard storage solution on the market with up to 64 Gb/s transfer speed.

FAST AND FUTURE-READY STORAGE
MSI X570S motherboards support all the latest storage standards, which allows users to connect any ultra-fast storage device. Higher efficiency makes your work easier.

M.2 XPANDER-Z GEN 4 S
This PCI-Express card offers two extra M.2 slots with smart fan cooling solution to increase your storage capacity at maximum speed, features auto detect function for the M.2 access and the M.2 temperature for easy checking.

A HUGE STEP OF DDR PERFORMANCE
MSI OC LAB does not merely work hard on extreme overclocking. The A-XMP memory profile has great improvement on performance and efficiency for X570S. Easy to enable A-XMP profile with auto power settings to get the best memory speed and stability.

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.

EASY OVERCLOCKING WITH A-XMP PROFILE
The A-XMP in MSI BIOS are tested and certified by MSI OC LAB. It is easy to enable with auto power settings to get the best memory speed and stability.

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.

True Color
Optimized monitor's brightness and color in several modes for different situation, you can also customize by yourself.

Live Update
Never miss out on important updates. MSI Live Update automatically downloads and installs the latest drivers, BIOS and software so you can focus on your work.

User Scenario
One click for setting your computer, even customize own profile as your preference.

Hardware Monitor
Get immediate access to your critical hardware information in real-time.

OC Setting
Tune select motherboard settings in the OC Setting menu, where options to boost core performance and optimize system cooling are presented in an intuitive interface.

Total Fan Control
Assume complete control of your fans with Total Fan Control. Set up to four CPU temperature targets and the motherboard will adjust fan speeds automatically.

Mystic Light
Create your own colorful masterpiece with ease. Splash any color you want with just a few clicks!

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!

GAME BOOST
Quickly overclock your CPU with a single button for more performance.

A-XMP
Choose from a preset A-XMP profile and automatically overclock compatible DDR memory.

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 APP PLAYER
Developed under an exclusive partnership with BlueStacks, the MSI APP Player brings seamless gaming experience between mobile games and PC platform, and leverages customized features as specific keyboard lighting and better graphics with multi-task works.

RESIZABLE BAR (RE-SIZE 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.

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 immerse one.

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.

SURFACING WITH THE REAL MU-MIMO TECHNOLOGY
The latest Wi-Fi 6E solution supports 6GHz spectrum, Bluetooth 5.2, two-way MU-MIMO and BSS color technology, provide up to 4X network capacity and efficiency in the high signal density environment, delivering speeds up to 2400Mbps.

NEXT-GEN INTEL® WI-FI 6E & BLUETOOTH
Connect to a high-speed wireless network powered by an Intel® Wi-Fi / Bluetooth solution with dedicated high quality Wi-Fi antenna, delivering AX speeds up to 2.4Gbps.

OPTIMIZE ONLINE GAMING TRAFFIC FOR LOWER LATENCY!
MSI LAN Manager automatically classifies and prioritizes the latency-sensitive applications for online games, giving you the best online gaming experience with low latency.

MSI LAN MANAGER

- Automatically prioritizes games above other applications
- Allows you to change applications' traffic priority
- Allows you to customize bandwidth for each application

DOUBLE BANDWIDTH WITH LIGHTNING USB 3.2 GEN 2x2 20G
Using USB 3.2 devices has never been faster! Featuring the Lighting ASmedia 3241 USB 3.2 Gen2x2 controller, MSI motherboards offer never before seen USB speeds up to 20Gb/s when connecting the Rear USB Type-C. The Lightning USB 20G connectors are covered with gold to ensure a better signal and performance.

USB FRONT TYPE-C
MSI gaming motherboards support USB Front Type-C that allows gamers to connect with the latest USB devices. Built up a system with MSI PC case to have the most convenient experience.

HIGH DEFINITION ALC4082 AUDIO PROCESSOR
From HD-A to USB Interface, twice the DAC format from 32-bit/192kHz to 32-bit/384kHz, deliver the highest sound quality.

ESS AUDIO DAC
Recreates the optimal natural analogue sound with ultra-low distortion to ensure a perfect, realistic display of sound.

HIGH QUALITY AUDIO CAPACITORS
A high fidelity sound experience with exceptional acoustics and realism for studio level headphones is ensured.

GOLDEN AUDIO JACKS WITH S/PDIF
Keep your sound perfect by transmit your audio with pure digital signal

DEDICATED HEADPHONE AMPLIFIER
A dedicated headphone amplifier can drive audiophile headphones with up to 600ohm impedance

ALL NEW NAHIMIC 3 - FOR NEXT LEVEL AUDIO IMMERSION
Get ready to be amazed by the all new Nahimic 3 and live the gaming immersion like never before! With simple and intuitive new UI, the Nahimic 3 not only further enhances in game 3D surround sound, but also offers even more finite control over your music, movies, and conference calls.

ISOLATED AUDIO DESIGN
Like a dedicated sound card, audio components and circuits have been laid on a reserved motherboard section and electrically

isolated.

SEPARATED AUDIO LAYERS FOR CLEAN LEFT & RIGHT CHANNELS
Using separated layers in the PCB ensures equally pristine sound quality for both left and right audio channels.

DE-POP PROTECTION
Audio Boost protects your ears by eliminating those annoying loud popping sounds when you plug/unplug devices or turn your PC on/off.

TRUE COLOR MYSTIC LIGHT ON MOTHERBOARD
Splash on some color and vibrant RGB lighting effects using MSI Mystic Light with 16.8 million colors and 29 LED effects.

MYSTIC LIGHT EXTENSION
Still not satisfied with the decoration on the ecosystem? The Mystic Light Extension will help you to have more attractive way to decorate you gaming rig by the LED Strips and still under controlled by the Mystic Light application.

JCORSAIR
The JCORSAIR pin header provides the max 3A(5V) power supply for the CORSAIR LED strips.

Specifications:

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Specifications	
Product Code	MEG X570S ACE MAX
CPU (Max Support)	RYZEN 9
Socket	AM4
Chipset	AMD X570 Chipset
DDR4 Memory	1866/ 2133/ 2400/ 2667/ 2800/ 2933/ 3000/ 3066/ 3200/ 3466/ 3600/ 3733/ 3866/ 4000/ 4133/ 4266/ 4400/ 4533/ 4600/ 4733/ 4866/ 5000/ 5100/ 5200/ 5300+Mhz by JEDEC and A-XMP OC MODE
Memory Channel	Dual
DIMM Slots	4
Max Memory (GB)	128
PCI-E x16	3
PCI-E x1	1
SATAIII	8
M.2 Slot	4
RAID	0/1/10
LAN	Realtek 8125B 2.5G LAN
WiFi & Bluetooth	Intel Wi-Fi 6E AX210
USB 3.2 ports (Front)	1(Gen 2, Type C), 4(Gen 1, Type A)
USB 3.2 ports (Rear)	1(Gen 2x2, Type C), 3(Gen 2, Type A), 4(Gen 1, Type A)

USB 2.0 ports (Front)	4
USB 2.0 ports (Rear)	4
Audio ports (Rear)	5+ Optical S/PDIF (Realtek ALC4082 Codec + ESS SABRE9018Q2C combo DAC)
DirectX	12
Form Factor	ATX
SLI	Y
CrossFire	Y
Operating System	Support for Windows 10 64-bit

Product Information Online

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

Product page:
https://www.comx-computers.co.za/MEG-X570S-ACE-MAX-MSI-AM4-MEG-X570S-ACE-MAX-AMD-X570-Chipset-AM4-Socket-AMD-Ryzen-p-263971.php

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