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Product Specification Sheet

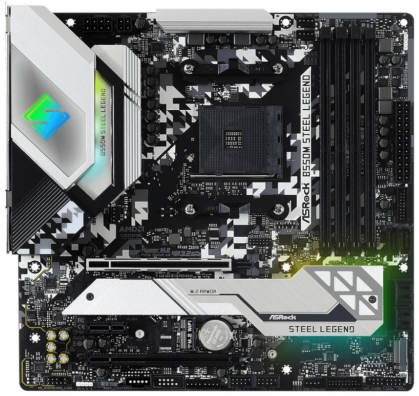
B550M-STEELLEGEND

ASRock B550M Steel Legend AMD Ryzen 5000 series Socket AM4 mATX motherboard

Product Overview

Asrock B550M Steel Legend AMD Ryzen 5000 Series Socket AM4 mATX Motherboard, AMD B550 Chipset, 4x DDR4 DIMM Memory slots, 7.1 ch HD Audio, 2.5 Gigabit LAN, 2x PCI Express x16 slots (PCIE1 Gen4 x16 mode / PCIE3 Gen3 x4 mode), 1x PCI Express 3.0 x1 slot, 2x M.2 Socket supports PCI Express module up to Gen4 x4, 1x Optical SPDIF out Port, USB 3.2 Gen2 Type-A Port, USB 3.2 Gen2 Type-C Port, USB 3.2 Gen1 Ports, USB 2.0 Ports, HD Audio jacks











Specifications

Summary Overview:

The ASRock B550M Steel Legend AM4 motherboard delivers an unbeatable combination of reliability, performance, and next-gen features, ideal for South African PC builders. Whether you're assembling a gaming powerhouse or a productivity workstation, this micro-ATX board supports AMD Ryzen 3000, 4000 G-Series, and 5000 Series CPUs. With PCIe 4.0 support, high-speed M.2 slots, and 2.5G LAN, you'll experience fast data transfers and exceptional gaming or multitasking performance.

Packed with immersive audio, RGB lighting, and overclocking-ready memory support, the B550M Steel Legend is engineered for power users who demand quality and style. Shop now and build a future-proof system that meets your performance goals with confidence.

Performance tier: High-end

Uses: Gaming PCs, creative workstations, streaming setups, home offices, productivity builds

Overview:

ASRock B550M Steel Legend AM4 Motherboard - High Performance Meets Reliability

The ASRock B550M Steel Legend AM4 Micro-ATX Motherboard is engineered for gamers, creators, and PC enthusiasts who demand both performance and resilience. Built with premium components and military-grade durability, this board ensures long-term stability while delivering top-tier computing power for modern workloads.

Designed to support AMD Ryzen 3000, 4000 G-Series, and 5000 Series processors, the B550M Steel Legend unlocks exceptional speed and responsiveness, ideal for gaming, streaming, and productivity tasks.

Powerful Performance for AMD Ryzen Builds

With support for the AM4 socket and high-frequency DDR4 memory (up to 4733+ MHz overclocked), this motherboard is a perfect foundation for AMD-based setups. The reinforced PCIe 4.0 x16 slot supports next-gen GPUs, offering lightning-fast graphics bandwidth for demanding games and design software. High-speed M.2 slots further enhance system responsiveness, providing ultra-fast NVMe SSD support.

AMD Smart Access Memory technology is included, allowing the CPU and GPU to communicate more efficiently. This means faster load times, reduced latency, and an overall smoother performance experience-especially important for high-end gaming and creative workflows.

Immersive Audio & Visual Experience

Equipped with Nahimic Audio Technology, the ASRock B550M delivers rich 7.1-channel HD sound with precision spatial tracking. Whether you're gaming with a headset or watching a movie in surround sound, you'll enjoy clear and immersive

audio. Graphics output options include both HDMI and DisplayPort, providing flexibility for modern monitor setups.

Next-Gen Connectivity and Customization

Stay connected and in control with:

- Dual USB 3.2 Gen2 ports(Type-A and Type-C)
- Dragon 2.5G LANfor high-speed networking
- Multiple USB 3.2 Gen1 ports for versatile device support

Customize your build with Polychrome RGB Sync, supporting a wide range of RGB components and strips. You can also fine-tune system cooling using Smart Fan technology, which gives granular control over fan speeds for optimal thermal management.

Intelligent Storage with AMD StoreMI

Combine the speed of SSDs with the capacity of HDDs using AMD StoreMI, an intelligent storage acceleration tool that helps reduce boot times and enhance file access speeds without needing manual configurations.

Features:

Key Specifications

- CPU Support: AMD AM4 Ryzen 3000, 4000 G-Series, and 5000 Series processors
- Memory: DDR4 up to 4733+ MHz (OC)
- Expansion Slots: 1 x PCIe 4.0 x16, 1 x PCIe 3.0 x16, 1 x PCIe 3.0 x1, 1 x M.2 Key E (Wi-Fi)
- Audio: 7.1 Channel HD with Realtek ALC1220/ALC1200 codec and Nahimic Audio
- Graphics Outputs: HDMI, DisplayPort
- Storage Options:
- 1 x Hyper M.2 (PCIe Gen4x4)
- 1 x M.2 (PCIe Gen3x2 & SATA3)
- 6 x SATA3
- USB Ports:
- 2 x USB 3.2 Gen2 (Rear: Type-A & Type-C)
- 8 x USB 3.2 Gen1 (4 Front, 4 Rear)
- Networking: Dragon 2.5G LAN
- Multi-GPU: AMD CrossFireX support

What's in the Box

- ASRock B550M Steel Legend AM4 M-ATX Motherboard - Black (x1)
- SATA Data Cables (x2)
- Screws for M.2 Sockets (x2)

Final Thoughts

Whether you're building a high-performance gaming rig or a versatile creator workstation, the ASRock B550M Steel Legend offers exceptional value with future-ready features and reliable performance. With durable construction, comprehensive connectivity, and customizable aesthetics, it's a rock-solid foundation for any AMD-powered PC build.

Specifications:

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Specifications	
Product Code	B550M-STEELLEGEND

Unique Feature	ASRock USB 3.2 Gen2
	- ASRock USB 3.2 Gen2 Type-A Port (10 Gb/s)
	- ASRock USB 3.2 Gen2 Type-C Port (10 Gb/s)
	ASRock Super Alloy
	- XXL Aluminum Alloy Heatsink
	- Premium 60A Power Choke
	- 50A Dr.MOS
	- Nichicon 12K Black Caps (100% Japan made high quality conductive polymer capacitors)
	- I/O Armor
	- Matte Black PCB
	- High Density Glass Fabric PCB
	- 2oz Copper PCB
	2.5G LAN
	ASRock Steel Slot Gen4
	ASRock Full Coverage M.2 Heatsink
	ASRock Hyper M.2 (PCIe Gen4x4)
	ASRock POST Status Checker (PSC)
	ASRock Full Spike Protection (for all USB, Audio, LAN Ports)
	ASRock Live Update & APP Shop
CPU	- Supports AMD AM4 Socket Ryzen 3000, 3000 G-Series, 4000 G-Series, 5000 and 5000 G-Series Desktop Processors
	- Digi Power design
	- 10 Power Phase design
	*Please refer to CPU support list for details.
Chipset	- AMD B550

Memory	- Dual Channel DDR4 Memory Technology
	- 4 x DDR4 DIMM Slots
	- AMD Ryzen series CPUs (Vermeer) support DDR4 4533+(OC) / 4466(OC) / 4400(OC) / 4333(OC) / 4266(OC) / 4200(OC) / 4133(OC) / 4000(OC) / 3866(OC) / 3800(OC) / 3733(OC) / 3600(OC) / 3466(OC) / 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory
	- AMD Ryzen series CPUs (Matisse) support DDR4 4533+(OC) / 4466(OC) / 4400(OC) / 4333(OC) / 4266(OC) / 4200(OC) / 4133(OC) / 4000(OC) / 3866(OC) / 3800(OC) / 3733(OC) / 3600(OC) / 3466(OC) / 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory
	- AMD Ryzen series APUs (Cezanne) support DDR4 4733+(OC) / 4666(OC) / 4600(OC) / 4533(OC) / 4466(OC) / 4400(OC) / 4333(OC) / 4266(OC) / 4200(OC) / 4133(OC) / 4000(OC) / 3866(OC) / 3800(OC) / 3733(OC) / 3600(OC) / 3466(OC) / 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory
	- AMD Ryzen series APUs (Renoir) support DDR4 4733+(OC) / 4666(OC) / 4600(OC) / 4533(OC) / 4466(OC) / 4400(OC) / 4333(OC) / 4266(OC) / 4200(OC) / 4133(OC) / 4000(OC) / 3866(OC) / 3800(OC) / 3733(OC) / 3600(OC) / 3466(OC) / 3200 / 2933 / 2667 / 2400 / 2133 ECC & non-ECC, un-buffered memory
	- AMD Ryzen series APUs (Picasso) support DDR4 3333+(OC) / 3200(OC) / 2933 / 2667 / 2400 / 2133 non-ECC, un-buffered memory
	- Max. capacity of system memory: 128GB
	- Supports Extreme Memory Profile (XMP) memory modules
	- 15u Gold Contact in DIMM Slots
	*For Ryzen Series APUs (Picasso, Cezanne and Renoir), ECC is only supported with PRO CPUs.
	Please refer to below table for AMD non-XMP memory frequency support. For more details, please refer to the QVL on ASRock's website.
	Ryzen Series CPUs (Vermeer):
	Ryzen Series CPUs (Matisse):
	Ryzen Series APUs (Cezanne):
	Ryzen Series APUs:
	Ryzen Series CPUs (Picasso):
	SR: Single rank DIMM, 1Rx4 or 1Rx8 on DIMM module label x=1 or 2
	DR: Dual rank DIMM, 2Rx4 or 2Rx8 on DIMM module label
	**Due to the operating system limitation, the actual memory size may be less than 4GB for the reservation for system usage under Windows 32-bit OS. For Windows 64-bit OS with 64-bit CPU, there is no such limitation.

BIOS	- 256Mb AMI UEFI Legal BIOS with GUI support
	- Supports "Plug and Play"
	- ACPI 5.1 compliance wake up events
	- Supports jumperfree
	- SMBIOS 2.3 support
	- CPU, CPU VDDCR_SOC, DRAM, VPPM, 1.05V_PROM_S5, 2.5V_PROM, +1.8VSB, VDDP Voltage Multi-adjustment
Graphics	- Integrated AMD Radeon Vega Series Graphics in Ryzen Series APU
	- DirectX 12, Pixel Shader 5.0
	- Shared memory default 2GB. Max Shared memory supports up to 16GB.
	- Dual graphics output: support HDMI and DisplayPort 1.4 ports by independent display controllers
	- Supports HDMI 2.1 with max. resolution up to 4K x 2K (4096x2160) @ 60Hz
	- Supports DisplayPort 1.4 with max. resolution up to 5K (5120x2880)@120Hz
	- Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI 2.1 Port (Compliant HDMI monitor is required)
	- Supports HDR (High Dynamic Range) with HDMI 2.1
	- Supports HDCP 2.3 with HDMI 2.1 and DisplayPort 1.4 Ports
	- Supports 4K Ultra HD (UHD) playback with HDMI 2.1 and DisplayPort 1.4 Ports
	- Supports Microsoft PlayReady
	*Actual support may vary by CPU
	**The Max shared memory 16GB requires 32GB system memory installed.
	***Picasso supports HDCP 2.2 with HDMI 2.0 Port
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC1220/ALC1200 Audio Codec)
	- Premium Blu-ray Audio support
	- Supports Surge Protection
	- PCB Isolate Shielding
	- Individual PCB Layers for R/L Audio Channel
	- Gold Audio Jacks
	- Nahimic Audio

LAN	- 2.5 Gigabit LAN 10/100/1000/2500 Mb/s
	- Dragon RTL8125BG
	- Supports Dragon 2.5G LAN Software
	- Smart Auto Adjust Bandwidth Control
	- Visual User Friendly UI
	- Visual Network Usage Statistics
	- Optimized Default Setting for Game, Browser, and Streaming Modes
	- User Customized Priority Control
	- Supports Wake-On-LAN
	- Supports Lightning/ESD Protection
	- Supports Energy Efficient Ethernet 802.3az
	- Supports PXE
Slots	AMD Ryzen series CPUs (Vermeer and Matisse)
	- 2 x PCI Express x16 Slots (PCIE1: Gen4x16 mode , PCIE3: Gen3 x4 mode)
	AMD Ryzen series APUs (Cezanne and Renoir)
	- 2 x PCI Express x16 Slots (PCIE1: Gen3x16 mode , PCIE3: Gen3 x4 mode)
	AMD Ryzen series APUs (Picasso)
	- 2 x PCI Express x16 Slots (PCIE1: Gen3x8 mode , PCIE3: Gen3 x4 mode)
	- 1 x PCI Express 3.0 x1 Slot
	- Supports AMD Quad CrossFireX and CrossFireX
	- 15u Gold Contact in VGA PCIe Slot (PCIE1)
	- 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module
	*Supports NVMe SSD as boot disks
Storage	- 6 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug
	- 1 x Hyper M.2 Socket (M2_1), supports M Key type 2280 M.2 PCI Express module up to Gen4x4 (64 Gb/s) (with Vermeer, Matisse) or Gen3x4 (32 Gb/s) (with Cezanne, Renoir and Picasso)
	- 1 x M.2 Socket (M2_2), supports M Key type 2280 M.2 SATA3 6.0 Gb/s module and M.2 PCI Express module up to Gen3 x2 (16 Gb/s)
	*M2_2 and SATA3_5_6 share lanes. If either one of them is in use, the other one will be disabled.
	**Supports NVMe SSD as boot disks
	NVMe SSD is not supported with AMD Athlon 3000G Processors

Connector	- 1 x SPI TPM Header
	- 1 x Power LED and Speaker Header
	- 2 x RGB LED Headers
	- 2 x Addressable LED Headers
	- 1 x CPU Fan Connector (4-pin)
	- 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)
	- 4 x Chassis/Water Pump Fan Connectors (4-pin) (Smart Fan Speed Control)
	- 1 x 24 pin ATX Power Connector (Hi-Density Power Connector)
	- 1 x 8 pin 12V Power Connector (Hi-Density Power Connector)
	- 1 x 4 pin 12V Power Connector (Hi-Density Power Connector)
	- 1 x Front Panel Audio Connector
	- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection)
	- 2 x USB 3.2 Gen1 Headers (Support 4 USB 3.2 Gen1 ports) (Supports ESD Protection)
	*Support in total up to 12V/3A, 36W LED Strip
	**Support in total up to 5V/3A, 15W LED Strip
	***The CPU Fan Connector supports the CPU fan of maximum 1A (12W) fan power.
	****The CPU/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power.
	*****The Chassis/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power.
	CPU_FAN2/WP, CHA_FAN1/WP, CHA_FAN2/WP, CHA_FAN3/WP and CHA_FAN4/WP can auto detect if 3-pin or 4-pin fan is in use.
Rear Panel I/O	- 2 x Antenna Mounting Points
	- 1 x PS/2 Mouse/Keyboard Port
	- 1 x HDMI Port
	- 1 x DisplayPort 1.4
	- 1 x Optical SPDIF Out Port
	- 1 x USB 3.2 Gen2 Type-A Port (10 Gb/s) (Supports ESD Protection)
	- 1 x USB 3.2 Gen2 Type-C Port (10 Gb/s) (Supports ESD Protection)
	- 4 x USB 3.2 Gen1 Ports (ASMedia ASM1074 hub) (Supports ESD Protection)
	- 2 x USB 2.0 Ports (Supports ESD Protection)
	- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)
	- 1 x Clear CMOS Button
	- HD Audio Jacks: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone (Gold Audio Jacks)

Software and UEFI	Software
	- ASRock Motherboard Utility (A-Tuning)
	- ASRock Polychrome SYNC
	UEFI
	- ASRock Full HD UEFI
	- ASRock Instant Flash
	*These utilities can be downloaded from ASRock Live Update & APP Shop.
Accessories	- 2 x SATA Data Cables
	- 2 x Screws for M.2 Sockets
Hardware Monitor	- Temperature Sensing: CPU, CPU/Water Pump, Chassis/Water Pump Fans
	- Fan Tachometer: CPU, CPU/Water Pump, Chassis/Water Pump Fans
	- Quiet Fan (Auto adjust chassis fan speed by CPU temperature): CPU, CPU/Water Pump, Chassis/Water Pump Fans
	- Fan Multi-Speed Control: CPU, CPU/Water Pump, Chassis/Water Pump Fans
	- Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore, CPU VDDCR_SOC, DRAM, VPPM, 1.05V_PROM_S5, +1.8V, VDDP
Form Factor	- Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm
	- 2oz Copper PCB
OS	- Microsoft Windows 10 64-bit / 11 64-bit
Certifications	- FCC, CE
	- ErP/EuP ready (ErP/EuP ready power supply is required)

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/B550M-STEELLEGEND-ASRock-B550M-Steel-Legend-AMD-Ryzen-5000-series-Socket-AM4-mATX-p-326094.php

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