ComX Computers
Product Specification Sheet

AB350-GAMING-K4

ASRock AMD Fatal1ty AB350 Gaming K4 B350 Chipset Socket AM4 Motherboard

Product Overview

ASRock AMD Fatal1ty AB350 Gaming K4, B350 Chipset, Socket AM4, AMD Ryzen Series Support, AMD A-Series AM4 APU Support Memory Support: DDR4 Up to 2666MHz, 4x DIMM Dual Channel Slots (64GB Max), Storage & I/O: 4x SATA3 (RAID), 2x SATA3, 2x USB2.0, 5x USB 3.1 Gen1, 1x USB3.1C Gen2, 2x USB 2.0 Headers, 1x USB 3.1 Gen1 Headers, 1x M.2 NVMe Slot, 1x M.2 Slot, Expansion: 1x PCI-Express x16 (Gen 3.0), 1x PCI-Express x16 @ x4 Speed, 4x PCI-Express x1, Display, Audio & LAN: 1x D-SUB, 1x DVI-D, 1x HDMI, 1x Realtek RTL8111GR Gigabit LAN Port, 8-Channel Realtek ALC892 HD Audio, Features: Super Alloy, ASRock APP, A-Tuning, ASRock EZ UEFI, ASRock OMG, 4K UHD Support, Hyper BCLK Engine II, Steel PCI-E Slots, SoundBlaster Cinema 3, ASRock Aura LED Gaming Armor



Specifications

Features:

Armor Your VR Machine
Prepare yourself well to enjoy the impressive world of Virtual Reality. Before that, you have to make sure everything is qualified, including hardware, software and drivers. Motherboard is the key to connect every critical components and ASRock's VR Ready motherboards are definitely the one you're looking for. The premium qualify is assured by rigorous testing during development. The sturdy components and rock-slid performance makes you completely immersive in the VR scenario. Users can be assured to experience VR enjoyments without any compatibility problems.

FOR GAMERS
Motherboards with enhanced audio and graphics design, plus improved stability, specifically tailored for gamers.

PCI-E STEEL SLOTS
The advanced PCI-E Steel Slots packed with solid cover that prevent any signal interference with graphics cards. It also ensures the heavy graphics cards to be well-installed in the PCI-E slots safely.

Dual M.2 For SSD
One PCIe Gen3 x4 Ultra M.2 interface that pushes data transfer speeds up to 32Gb/s, and is compatible with ASRock's U.2 Kit for installing some of the world's fastest U.2 PCIe Gen3 x4 SSD. And the other one supports SATA3 6Gb/s M.2 modules.

Creative Sound Blaster™ Cinema 3
Sound Blaster™ Cinema 3 is the latest software that is designed with SBX Pro Studio to deliver a holistic audio experience. Whether you're gaming or watching a movie, Reality 3D technology lets you enable 5.1/7.1 surround sound for an additional

layer of transience to your listening experience even with just a pair of headphones or stereo speakers.

RGB LED
Build your own colorful lighting system! RGB LED and header allows users to connect LED strip and create their unique PC style easily. The ASRock RGB LED utility can be downloaded directly or from an all-in-one utility ASRock Live Update & APP Shop!

USB Type-C
A latest reversible USB Type-C design that fits the connector either way.

2oz Copper
It comes with 2 ounces copper inner layers, using only carefully selected copper materials for PCB layers, delivering lower temperature and higher energy efficiency for overclocking.

Premium 42A Power Choke
Compared to traditional chokes, ASRock's premium 42A power chokes effectively make the saturation current up to three times better, thus providing enhanced and improved Vcore voltage to the motherboard.

Sapphire Black PCB
Pure black PCB appearance. The new Sapphire Black PCB represents rock-solid quality and gives the motherboard a more mysterious touch.

High Density Glass Fabric PCB
High Density Glass Fabric PCB design that reduces the gaps between the PCB layers to protect the motherboard against electrical shorts caused by humidity.

Built to Kill
Allows ASRock to be your most trustworthy ally, providing both hardware and software support.

Digi Power
Unlike traditional motherboards that use analog power, this motherboard uses a next generation digital PWM (Pulse-Width Modulation) design, which provides CPU Vcore voltage more efficiently and smoothly, so that the stability and lifespan of the motherboard is greatly enhanced.

Key Master
Consists of two major features, Sniper Key and Macro Key. It enhances your mouse and keyboard with customizable macros, sniper modes, key repeat rates and repeat delay.

Fatal1ty Mouse Port
After plugging a USB mouse into the Fatal1ty Mouse Port and running F-Stream, gamers can choose their own preferred mouse polling rate from 125 Hz to 1000 Hz.

Triple Monitor
Graphics, graphics and even more graphics! You've demanded for more eye candy, so this motherboard supports Triple Monitor. You may choose up to three display interfaces from the rear i/o to connect monitors and use them simultaneously without installing another graphics card.

Live Update & APP Shop
ASRock Live Update & APP Shop is designed for your convenience. We provide various apps and support software for users to download. You can also easily optimize your system and keep your motherboard up to date with ASRock Live Update & APP Shop.

Specifications:

Gaming Armor	Memory
	- 15u Gold Contact in DIMM Slots
	Audio
	- Creative Sound Blaster Cinema 3
Unique Feature	ASRock Super Alloy
	- Premium Power Choke
	- Matte Black PCB
	- High Density Glass Fabric PCB
	- 2oz Copper PCB
	ASRock Steel Slots
	ASRock Ultra M.2 (PCIe Gen3 x4)
	ASRock Full Spike Protection (for all USB, Audio, LAN Ports)
	ASRock Live Update & APP Shop
CPU	- Supports AMD Socket AM4 A-Series APUs (Bristol Ridge) and Ryzen Series CPUs (Summit Ridge)
	- Digi Power design
	- 9 Power Phase design
	- Supports 95W Air Cooling
Chipset	- AMD Promontory B350
Memory	- Dual Channel DDR4 Memory Technology
	- 4 x DDR4 DIMM Slots
	- AMD Ryzen series CPUs support DDR4 2667/2400/2133 ECC & non-ECC, un-buffered memory
	- AMD 7 Gen A-Series APUs support DDR4 2133 ECC & non-ECC, un-buffered memory
	- Max. capacity of system memory: 64GB
	- 15u Gold Contact in DIMM Slots
	*Please refer to below table for DDR4 UDIMM maximum frequency support.
	A-Series APUs:
BIOS	- 128Mb AMI UEFI Legal BIOS with multilingual GUI support
	- Supports "Plug and Play"
	- ACPI 5.1 compliance wake up events
	- Supports jumperfree
	- SMBIOS 2.3 support
	- DRAM Voltage multi-adjustment

Graphics	- Integrated AMD Radeon R7/R5 Series Graphics in A-series APU
	- DirectX 12, Pixel Shader 5.0
	- Max. shared memory 2GB
	- Three graphics output options: D-Sub, DVI-D and HDMI
	- Supports Triple Monitor
	- Supports HDMI with max. resolution up to 4K x 2K (4096x2160) @ 24Hz / (3840x2160) @ 30Hz
	- Supports DVI-D with max. resolution up to 1920x1200 @ 60Hz
	- Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz
	- Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required)
	- Supports HDCP with DVI-D and HDMI Ports
	- Supports Full HD 1080p Blu-ray (BD) playback with DVI-D and HDMI Ports
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec)
	- Premium Blu-ray Audio support
	- Supports Surge Protection
	- ELNA Audio Caps
	- PCB Isolate Shielding
	- Individual PCB Layers for R/L Audio Channel
	- Supports Creative Sound Blaster Cinema 3
	*To configure 7.1 CH HD Audio, it is required to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver.
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s
	- Realtek RTL8111GR
	- Supports Wake-On-LAN
	- Supports Lightning/ESD Protection
	- Supports LAN Cable Detection
	- Supports Energy Efficient Ethernet 802.3az
	- Supports PXE
Slots	- 1 x PCI Express 3.0 x16 Slot (PCIE2: x16 mode)
	- 1 x PCI Express 3.0 x16 Slot (PCIE4: x4 mode)
	- 4 x PCI Express 2.0 x1 Slots
	*Supports NVMe SSD as boot disks
	AMD Ryzen series CPUs support PCIE2: x16 mode
	AMD 7 A-Series APUs support PCIE2: x8 mode
	**AMD Ryzen series CPUs support PCIE4: x4 mode
	AMD 7 A-Series APUs support PCIE4: x2 mode
	If M2_1 is occupied, PCIE4 will be disabled.

Storage	- 4 x SATA3 6.0 Gb/s Connectors, support RAID (RAID 0, RAID 1 and RAID 10), NCQ, AHCI and Hot Plug
	- 2 x SATA3 6.0 Gb/s Connectors by ASMedia ASM1061, support NCQ, AHCI and Hot Plug
	- 1 x Ultra M.2 Socket (M2_1), supports M Key type 2242/2260/2280 M.2 PCI Express module up to Gen3 x4 (32 Gb/s) (with Ryzen Series CPU) or Gen3 x2 (16 Gb/s) (with A-Series APU)
	- 1 x M.2 Socket (M2_2), supports M Key type 2230/2242/2260/2280/22110 M.2 SATA3 6.0 Gb/s module
	*M2_2 and SATA3_3 share lanes. If either one of them is in use, the other one will be disabled.
	**If M2_1 is occupied, PCIE4 will be disabled.
	Supports NVMe SSD as boot disks
	Supports ASRock U.2 Kit
Connector	- 1 x COM Port Header
	- 1 x TPM Header
	- 1 x Power LED and Speaker Header
	- 1 x RGB LED Header
	- 1 x AMD Fan LED Header
	- 1 x CPU Fan Connector (4-pin)
	- 3 x Chassis Fan Connectors (4-pin) (Smart Fan Speed Control)
	- 1 x 24 pin ATX Power Connector
	- 1 x 8 pin 12V Power Connector
	- 1 x Front Panel Audio Connector
	- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection)
	- 1 x USB 3.0 Header (Supports 2 USB 3.0 ports) (Supports ESD Protection)
	*Supports up to 12V/3A, 36W LED Strip
	**The CPU Fan Connector supports the CPU fan of maximum 1A (12W) fan power.
	***CHA_FAN2 and CHA_FAN3 can auto detect if 3-pin or 4-pin fan is in use.
Rear Panel I/O	- 1 x PS/2 Mouse/Keyboard Port
	- 1 x D-Sub Port
	- 1 x DVI-D Port
	- 1 x HDMI Port
	- 2 x USB 2.0 Ports (Supports ESD Protection)* 1 x Fatal1ty Mouse Port (USB 2.0) is included
	- 1 x USB 3.0 Type-C Port (Supports ESD Protection)
	- 5 x USB 3.0 Ports (Supports ESD Protection)
	- 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED)
	- HD Audio Jacks: Line in / Front Speaker / Microphone

Software and UEFI	Software
	- ASRock RGB LED
	- ASRock Key Master
	- ASRock APP Charger
	- ASRock XFast LAN
	UEFI
	- ASRock Full HD UEFI
	- ASRock Instant Flash
	- ASRock Internet Flash
	- ASRock Crashless BIOS
	- ASRock Easy RAID Installer
	*These utilities can be downloaded from ASRock Live Update & APP Shop.
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar
Accessories	- Quick Installation Guide, Support CD, I/O Shield
	- 2 x SATA Data Cables
	- 2 x Screws for M.2 Sockets
Hardware Monitor	- CPU/Chassis temperature sensing
	- CPU/Chassis Fan Tachometer
	- CPU/Chassis Quiet Fan
	- CPU/Chassis Fan multi-speed control
	- Voltage monitoring: +12V, +5V, +3.3V, Vcore
Form Factor	- ATX Form Factor: 12.0-in x 8.8-in, 30.5 cm x 22.4 cm
	- Solid Capacitor design
OS	- Microsoft Windows 10 64-bit
	*For the updated Windows 10 driver, please visit ASRock's website for details.
Certifications	- FCC, CE, WHQL
	- 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/AB350-GAMING-K4-ASRock-AMD-Fatal1ty-AB350-Gaming-K4-B350-Chipset-Socket-AM4-Motherboard-p-155722.php

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