



Product Brief

- ASRock Super Alloy
- Supports 6th Generation Intel® Core™ Processors (Socket 1151)
- Supports DDR4 2133
- 1 PCIe 3.0 x16
- Graphics Output Options: DVI-D, HDMI
- 7.1 CH HD Audio (Realtek ALC892 Audio Codec), ELNA Audio Caps
- 4 SATA3
- 4 USB 3.0 (2 Front, 2 Rear)
- Supports Full Spike Protection, ASRock Live Update & APP Shop



Detail Specification

Platform	- Mini-ITX Form Factor: 6.7-in x 6.7-in, 17.0 cm x 17.0 cm - Solid Capacitor design
Unique Feature	ASRock Super Alloy - Premium 60A Power Choke - Dual-Stack MOSFET (DSM) - High Density Glass Fabric PCB ASRock Full Spike Protection ASRock Live Update & APP Shop
CPU	- Supports 6 th Generation Intel® Core™ i7/i5/i3/Pentium®/Celeron® Processors (Socket 1151) - Supports CPU up to 95W - Digi Power design - 5 Power Phase design - Supports Intel® Turbo Boost 2.0 Technology
Chipset	- Intel® H110
Memory	- Dual Channel DDR4 Memory Technology - 2 x DDR4 DIMM Slots - Supports DDR4 2133 non-ECC, un-buffered memory - Supports ECC UDIMM memory modules (operate in non-ECC mode) - Max. capacity of system memory: 32GB - Supports Intel® Extreme Memory Profile (XMP) 2.0
Expansion Slot	- 1 x PCI Express 3.0 x16 Slot (PCI-E1: x16 mode) * Supports NVMe SSD as boot disks
Graphics	* Intel® HD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. - Supports Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 510/530 - Pixel Shader 5.0, DirectX 12 - Max. shared memory 1024MB * The size of maximum shared memory may vary from different operating systems. - Dual graphics output: Support DVI-D and HDMI ports by independent display controllers - 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 Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required) - Supports Accelerated Media Codecs: HEVC, VP8, VP9 - 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) * 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. - Premium Blu-ray Audio support - Supports Surge Protection (ASRock Full Spike Protection) - ELNA Audio Caps
LAN	- Gigabit LAN 10/100/1000 Mb/s - Giga PHY Intel® I219V - Supports Wake-On-LAN - Supports Lightning/ESD Protection (ASRock Full Spike Protection) - Supports Energy Efficient Ethernet 802.3az - Supports PXE

Rear Panel I/O	- 1 x PS/2 Mouse/Keyboard Port - 1 x DVI-D Port - 1 x HDMI Port - 4 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 2 x USB 3.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Line in / Front Speaker / Microphone	
Storage	- 4 x SATA3 6.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug	
Connector	- 1 x TPM Header - 1 x Chassis Intrusion Header - 1 x CPU Fan Connector (4-pin) (Smart Fan Speed Control) - 1 x Chassis Fan Connector (4-pin) (Smart Fan Speed Control) - 1 x 24 pin ATX Power Connector - 1 x 4 pin 12V Power Connector - 1 x Front Panel Audio Connector - 2 x USB 2.0 Headers (Support 3 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Header (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) * USB3_7_8 is shared with USB_9_10.	
BIOS Feature	- 64Mb AMI UEFI Legal BIOS with multilingual GUI support - ACPI 5.0 Compliant wake up events - SMBIOS 2.7 Support - CPU, GT_CPU, DRAM, PCH 1.0V, VCCSA Voltage Multi-adjustment	
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar	
Software and UEFI	<p>Software</p> <ul style="list-style-type: none"> - ASRock Disk Health Report - ASRock USB Key - ASRock APP Charger - ASRock XFast LAN - ASRock XFast RAM - ASRock Fast Boot (Fast Boot, Restart to UEFI) <p>* These utilities can be downloaded from ASRock Live Update & APP Shop.</p>	<p>UEFI</p> <ul style="list-style-type: none"> - ASRock EZ Mode - ASRock My Favorites in UEFI - ASRock Instant Flash - ASRock Internet Flash - ASRock Crashless BIOS - ASRock OMG (Online Management Guard) - ASRock UEFI Tech Service - ASRock Easy Driver Installer
Hardware Monitor	- CPU/Chassis temperature sensing - CPU/Chassis Fan Tachometer - CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature) - CPU/Chassis Fan multi-speed control - CASE OPEN detection - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore	
OS	- Microsoft® Windows® 10 64-bit / 8.1 64-bit / 7 32-bit / 7 64-bit * To install Windows® 7 OS, a modified installation disk with xHCI drivers packed into the ISO file is required. Please check our User Manual for more detailed instructions. * For the updated Windows® 10 driver, please visit ASRock's website for details: http://www.asrock.com	
Certifications	- FCC, CE, WHQL - E/P/EuP ready (E/P/EuP ready power supply is required)	
Accessories	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables	

H110M-ITX

Intel® H110 Chipset

ASRock

For
Designers
& Enthusiasts

Provides enhanced Vcore voltage for the motherboard.

More efficient power supply for the CPU Vcore.

High Density
Glass Fabric PCB

Protects the motherboard against electrical shorts caused by humidity.

Supports DDR4 2133

Supports the latest DDR4 memory modules.

ELNA Audio Caps

The 3uA leakage current reduces noise levels.

Digi Power

For smooth and efficient CPU Vcore voltage.

Solid Capacitor Design

Brings more stable performance and ensures a longer lifespan.

Intel LAN

Better performance, lowered CPU utilization and enhanced stability.

Live Update & APP Shop

Various apps and support software for entertainment or optimizing the system.

Full Spike Protection

Prevents your motherboard's components (USB, LAN, audio) from being damaged by voltage spikes.

