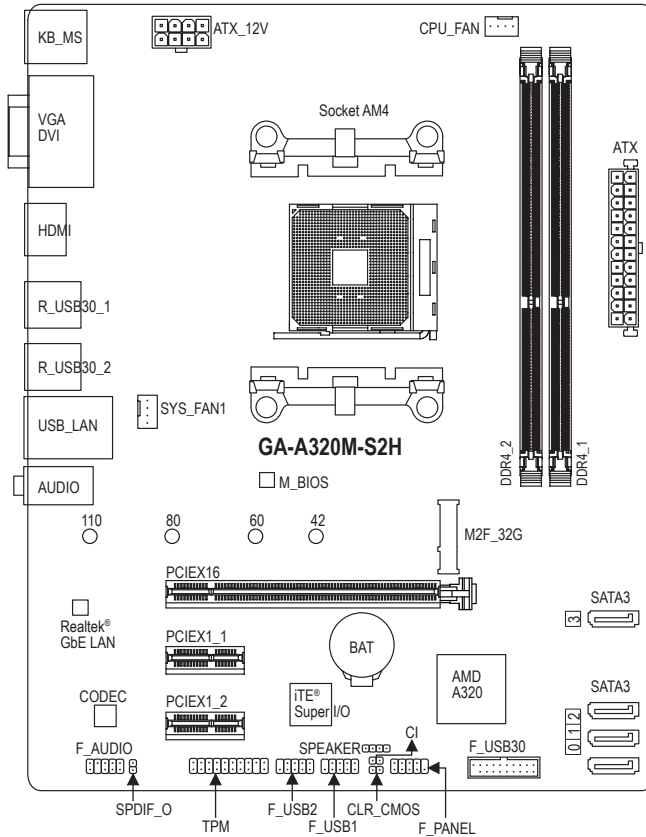


GA-A320M-S2H Motherboard Layout












Box Contents






- GA-A320M-S2H motherboard
- Two SATA cables
- Motherboard driver disk
- I/O Shield
- User's Manual





* The box contents above are for reference only and the actual items shall depend on the product package you obtain. The box contents are subject to change without notice.

1-2 Product Specifications

	CPU	<ul style="list-style-type: none"> ◆ AM4 Socket: <ul style="list-style-type: none"> - AMD Ryzen™ processor - AMD 7th Generation A-series/Athlon™ processors (Go to GIGABYTE's website for the latest CPU support list.)
	Chipset	<ul style="list-style-type: none"> ◆ AMD A320
	Memory	<ul style="list-style-type: none"> ◆ 2 x DDR4 DIMM sockets supporting up to 32 GB of system memory ◆ Dual channel memory architecture ◆ Support for DDR4 2667 ^(Note)/2400/2133 MHz memory modules ◆ Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules (operate in non-ECC mode) ◆ Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules ◆ Support for Extreme Memory Profile (XMP) memory modules (Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)
	Onboard Graphics	<ul style="list-style-type: none"> ◆ Integrated Graphics Processor: <ul style="list-style-type: none"> - 1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz - 1 x DVI-D port, supporting a maximum resolution of 1920x1200@60 Hz <li style="padding-left: 40px;">* The DVI-D port does not support D-Sub connection by adapter. - 1 x HDMI port, supporting a maximum resolution of 4096x2160@24 Hz <li style="padding-left: 40px;">* Support for HDMI 1.4 version. ◆ Maximum shared memory of 2 GB
	Audio	<ul style="list-style-type: none"> ◆ Realtek® ALC887 codec ◆ High Definition Audio ◆ 2/4/5.1/7.1-channel <ul style="list-style-type: none"> * To configure 7.1-channel audio, you have to use an HD front panel audio module and enable the multi-channel audio feature through the audio driver. ◆ Support for S/PDIF Out
	LAN	<ul style="list-style-type: none"> ◆ Realtek® GbE LAN chip (10/100/1000 Mbit)
	Expansion Slots	<ul style="list-style-type: none"> ◆ 1 x PCI Express x16 slot, running at x16 ^(Note) (The PCIEX16 slot conforms to PCI Express 3.0 standard.) ◆ 2 x PCI Express x1 slots (The PCI Express x1 slots conform to PCI Express 2.0 standard.)
	Storage Interface	<ul style="list-style-type: none"> ◆ 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280/22110 SATA and PCIe x4/x2 ^(Note) SSD support) ◆ 4 x SATA 6Gb/s connectors ◆ Support for RAID 0, RAID 1, and RAID 10 * Refer to "1-7 Internal Connectors," for the installation notices for the M.2 connector.
	USB	<ul style="list-style-type: none"> ◆ Chipset: <ul style="list-style-type: none"> - 2 x USB 3.1 Gen 1 ports available through the internal USB header - 6 x USB 2.0/1.1 ports (2 ports on the back panel, 4 ports available through the internal USB headers) ◆ CPU: <ul style="list-style-type: none"> - 4 x USB 3.1 Gen 1 ports on the back panel

(Note) Supports only M.2 SATA SSDs when using an AMD 7th Generation A-series or Athlon™ processor.

	Internal Connectors	<ul style="list-style-type: none"> ◆ 1 x 24-pin ATX main power connector ◆ 1 x 8-pin ATX 12V power connector ◆ 1 x CPU fan header ◆ 1 x system fan header ◆ 1 x M.2 Socket 3 connector ◆ 4 x SATA 6Gb/s connectors ◆ 1 x front panel header ◆ 1 x front panel audio header ◆ 1 x S/PDIF Out header ◆ 1 x USB 3.1 Gen 1 header ◆ 2 x USB 2.0/1.1 headers ◆ 1 x Trusted Platform Module (TPM) header (2x10 pin, for the GC-TPM2.0 module only) ◆ 1 x speaker header ◆ 1 x Clear CMOS jumper ◆ 1 x chassis intrusion header
	Back Panel Connectors	<ul style="list-style-type: none"> ◆ 1 x PS/2 keyboard port ◆ 1 x PS/2 mouse port ◆ 1 x D-Sub port ◆ 1 x DVI-D port ◆ 1 x HDMI port ◆ 4 x USB 3.1 Gen 1 ports ◆ 2 x USB 2.0/1.1 ports ◆ 1 x RJ-45 port ◆ 3 x audio jacks (Line In, Line Out, Mic In)
	I/O Controller	<ul style="list-style-type: none"> ◆ iTE® I/O Controller Chip
	Hardware Monitor	<ul style="list-style-type: none"> ◆ Voltage detection ◆ Temperature detection ◆ Fan speed detection ◆ Overheating warning ◆ Fan fail warning ◆ Fan speed control <ul style="list-style-type: none"> * Whether the fan speed control function is supported will depend on the cooler you install.
	BIOS	<ul style="list-style-type: none"> ◆ 1 x 128 Mbit flash ◆ Use of licensed AMI UEFI BIOS ◆ PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

 Unique Features	<ul style="list-style-type: none"> ◆ Support for APP Center <ul style="list-style-type: none"> * Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications. - @BIOS - 3D OSD - AutoGreen - BIOS Setup - Cloud Station - Color Temperature - EasyTune - Fast Boot - Game Boost - ON/OFF Charge - Smart Backup - Smart Keyboard - Smart TimeLock - System Information Viewer - USB Blocker - V-Tuner ◆ Support for Q-Flash ◆ Support for Xpress Install
 Bundled Software	<ul style="list-style-type: none"> ◆ Norton® Internet Security (OEM version) ◆ cFosSpeed
 Operating System	<ul style="list-style-type: none"> ◆ Support for Windows 10 64-bit ◆ Support for Windows 7 64-bit <ul style="list-style-type: none"> * Please download the "Windows USB Installation Tool" from GIGABYTE's website and install it before installing Windows 7.
 Form Factor	<ul style="list-style-type: none"> ◆ Micro ATX Form Factor; 24.4cm x 19.5cm

* GIGABYTE reserves the right to make any changes to the product specifications and product-related information without prior notice.



Please visit GIGABYTE's website for support lists of CPU, memory modules, SSDs, and M.2 devices.



Please visit the **Support Utility List** page on GIGABYTE's website to download the latest version of apps.