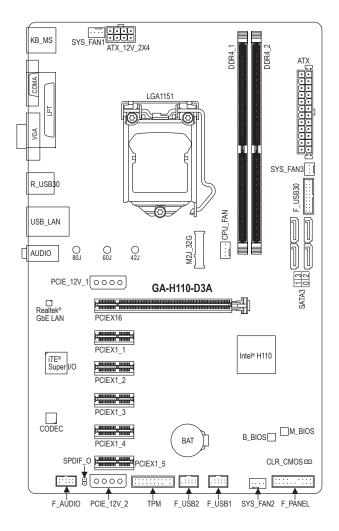
GA-H110-D3A Motherboard Layout



Box Contents

- ☑ GA-H110-D3A motherboard
- ☑ Motherboard driver disk
- ☑ Two SATA cables

✓ User's Manual

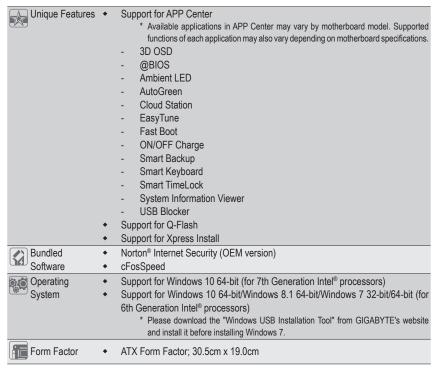
☑ I/O Shield

^{*} 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 CPU	 Support for 7th and 6th Generation Intel® Core™ i7 processors/ Intel® Core™ i5 processors/Intel® Core™ i3 processors/ Intel® Pentium® processors/Intel® Celeron® processors in the LGA1151 package (Go to GIGABYTE's website for the latest CPU support list.) L3 cache varies with CPU
Chipset	◆ Intel® H110 Express Chipset
Memory	2 x DDR4 DIMM sockets supporting up to 32 GB of system memory * Due to a Windows 32-bit operating system limitation, when more than 4 GB of physical memory is installed, the actual memory size displayed will be less than the size of the physical memory architecture Support for DDR4 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 * To support 2400 MHz or XMP memory, you must install a 7th generation processor.
	(Go to GIGABYTE's website for the latest supported memory speeds and memory modules.)
Onboard Graphics	Integrated Graphics Processor-Intel® HD Graphics support: 1 x D-Sub port, supporting a maximum resolution of 1920x1200@60 Hz Maximum shared memory of 1 GB
Audio	Realtek® ALC887 codec High Definition Audio 2/4/5.1/7.1-channel * 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 LAN	Realtek® GbE LAN chip (10/100/1000 Mbit)
Expansion Slots	1 x PCI Express x16 slot, running at x16 (The PCI Express x16 slot conforms to PCI Express 3.0 standard.) 5 x PCI Express x1 slots (All of the PCI Express x1 slots conform to PCI Express 2.0 standard.)
Storage Interface	Chipset: 1 x M.2 connector (Socket 3, M key, type 2242/2260/2280 SATA SSD support) 4 x SATA 6Gb/s connectors Refer to "1-7 Internal Connectors," for the installation notices for the M.2 and SATA connectors.
USB	Chipset: 4 x USB 3.1 Gen 1 ports (2 ports on the back panel, 2 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)

Internal Connectors	 1 x 24-pin ATX main power connector 1 x 8-pin ATX 12V power connector 2 x PCle power connectors 1 x CPU fan header 3 x system fan headers 4 x SATA 6Gb/s connectors 1 x M.2 Socket 3 connector 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 1 x Clear CMOS jumper
Back Panel Connectors	 1 x PS/2 mouse port 1 x PS/2 Keyboard port 1 x parallel port 1 x serial port 1 x D-Sub port 2 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 Hardware Monitor	iTE® I/O Controller Chip Voltage detection Temperature detection Fan speed detection Overheating warning Fan fail warning Fan speed control * Whether the fan speed control function is supported will depend on the cooler you install.
BIOS	 2 x 64 Mbit flash Use of licensed AMI UEFI BIOS Support for DualBIOS™ PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0



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

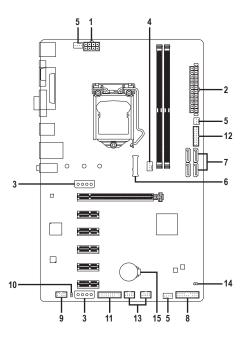


Please visit GIGABYTE's website for support lists of CPU, memory modules, SSDs, and M.2 devices.



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

1-7 Internal Connectors



ATX_12V_2X4	9)	F_AUDIO
ATX	10)	SPDIF_O
PCIE_12V_1/2	11)	TPM
CPU_FAN	12)	F_USB30
SYS_FAN1/2/3	13)	F_USB1/F_USB2
M2J_32G	14)	CLR_CMOS
SATA3 0/1/2/3	15)	BAT
F_PANEL		
	ATX PCIE_12V_1/2 CPU_FAN SYS_FAN1/2/3 M2J_32G SATA3 0/1/2/3	ATX 10) PCIE_12V_1/2 11) CPU_FAN 12) SYS_FAN1/2/3 13) M2J_32G 14) SATA3 0/1/2/3 15)



Read the following guidelines before connecting external devices:

- · First make sure your devices are compliant with the connectors you wish to connect.
- Before installing the devices, be sure to turn off the devices and your computer. Unplug the power cord from the power outlet to prevent damage to the devices.
- After installing the device and before turning on the computer, make sure the device cable has been securely attached to the connector on the motherboard.