

ASRock®

H310M-HDV

Product Brief:

- Supports 8th Generation Intel® Core™ Processors (Socket 1151)
- Supports DDR4 2666
- 1 PCIe 3.0 x16, 1 PCIe 2.0 x1
- Graphics Output Options: DVI-D, D-Sub, HDMI
- 7.1 CH HD Audio (Realtek ALC887 Audio Codec), ELNA Audio Caps
- 4 SATA3
- 4 USB 3.1 Gen1 (2 Front, 2 Rear)
- Supports Full Spike Protection, ASRock Live Update & APP Shop



Supports 8th Gen Intel® Core™ desktop processors.



HIGH DEFINITION MULTIMEDIA INTERFACE



Supports Windows 10



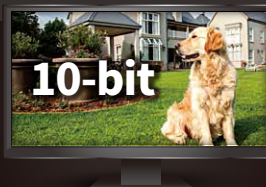
THREE GRAPHICS OUTPUTS

Complete with all three types of most used connectors! Packed with a D-Sub + DVI-D + HDMI combo. Plus the HDMI port supports 4K resolution.



HEVC 10-BIT DECODING/ENCODING

Supports HEVC 10-bit Decoding/Encoding to provide substantially improved video quality and higher bit depth video experience.



ELNA AUDIO CAPS

The 3uA leakage current of ELNA audio caps is the key to reduce noise levels and satisfy even the pickiest audiophiles.



SOLID CAPACITOR DESIGN

Brings more stable performance and ensures a longer lifespan.



WATER PUMP HEADER

This header provides a maximum of 1.5A power for supporting the most popular water pumps.



FULL SPIKE PROTECTION

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



Detail Specification

Platform	- Micro ATX Form Factor: 7.5-in x 7.4-in, 19.1 cm x 18.8 cm - Solid Capacitor design	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 - 4 x USB 2.0 Ports (Supports ESD Protection) - 2 x USB 3.1 Gen1 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
Unique Feature	ASRock Super Alloy - Sapphire Black PCB - High Density Glass Fabric PCB ASRock Full Spike Protection (for all USB, Audio, LAN Ports) ASRock Live Update & APP Shop	Storage	- 4 x SATA3 6.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug
CPU	- Supports 8 th Generation Intel® Core™ Processors (Socket 1151) - Supports CPU up to 95W - 5 Power Phase design - Supports Intel® Turbo Boost 2.0 Technology	Connector	- 1 x TPM Header - 1 x Chassis Intrusion and Speaker Header - 1 x CPU Fan Connector (4-pin) * The CPU Fan Connector supports the CPU fan of maximum 1A (12W) fan power. - 1 x Chassis/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control) * The Chassis/Water Pump Fan supports the water cooler fan of maximum 2A (24W) fan power. * CHA_FAN1/WP can auto detect if 3-pin or 4-pin fan is in use. - 1 x 24 pin ATX Power Connector - 1 x 8 pin 12V Power Connector - 1 x Front Panel Audio Connector - 1 x USB 2.0 Header (Supports 2 USB 2.0 ports) (Supports ESD Protection) - 1 x USB 3.1 Gen1 Header (Supports 2 USB 3.1 Gen1 ports) (Supports ESD Protection)
Chipset	- Intel® H310	BIOS Feature	- 128Mb AMI UEFI Legal BIOS with multilingual GUI support - ACPI 6.0 Compliant wake up events - SMBIOS 2.7 Support - DRAM, PCH 1.05V Voltage Multi-adjustment
Memory	- Dual Channel DDR4 Memory Technology - 2 x DDR4 DIMM Slots - Supports DDR4 2666/2400/2133 non-ECC, un-buffered memory - Max. capacity of system memory: 32GB - Supports Intel® Extreme Memory Profile (XMP) 2.0 - 15µ Gold Contact in DIMM Slots	Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar
Expansion Slot	- 1 x PCI Express 3.0 x16 Slot (PCIe2: x16 mode)* * Supports NVMe SSD as boot disks - 1 x PCI Express 2.0 x1 Slot	Software and UEFI	Software - ASRock A-Tuning - ASRock XFast LAN * These utilities can be downloaded from ASRock Live Update & APP Shop. UEFI - ASRock EZ Mode - ASRock Full HD UEFI - ASRock My Favorites in UEFI - ASRock Instant Flash - ASRock Internet Flash
Graphics	* Intel® UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. - Supports Intel® UHD 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® UHD Graphics - DirectX 12 - HWAEncode/Decode: AVC/H.264, HEVC/H.265 8-bit, HEVC/H.265 10-bit, VP8, VP9 8-bit, VP9 10-bit (Decode only), MPEG2, MJPEG, VC-1 (Decode only) - Three graphics output options: D-Sub, DVI-D and HDMI * Supports up to 2 displays simultaneously - Supports HDMI with max. resolution up to 4K x 2K (4096x2160) @ 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 4K Ultra HD (UHD) playback with HDMI Port	Hardware Monitor	- Temperature Sensing: CPU, Chassis/Water Pump Fans - Fan Tachometer: CPU, Chassis/Water Pump Fans - Quiet Fan (Auto adjust chassis fan speed by CPU temperature): CPU, Chassis/Water Pump Fans - Fan Multi-Speed Control: CPU, Chassis/Water Pump Fans - CASE OPEN detection - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore
Audio	- 7.1 CH HD Audio (Realtek ALC887 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. - Supports Surge Protection - ELNA Audio Caps	OS	- Microsoft® Windows® 10 64-bit
LAN	- PCIe x1 Gigabit LAN 10/100/1000 Mb/s - 1 x Realtek RTL8111H - Supports Wake-On-LAN - Supports Lightning/ESD Protection - Supports Energy Efficient Ethernet 802.3az - Supports PXE	Certifications	- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
		Accessories	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables