ASUS IoT H610M-IM-A

Industrial Micro-ATX motherboard with Intel® H610 chipset and Intel® Core™ 14th/13th/12th Gen. CPU

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Features

- Supports Intel® processors of the 14th/13th/12th Gen.
- 2x DDR4 3200 MHz U-DIMM, up to 64GB
- Intel® H610 chipset
- Supports up to 3x displays
- Micro-ATX form factor

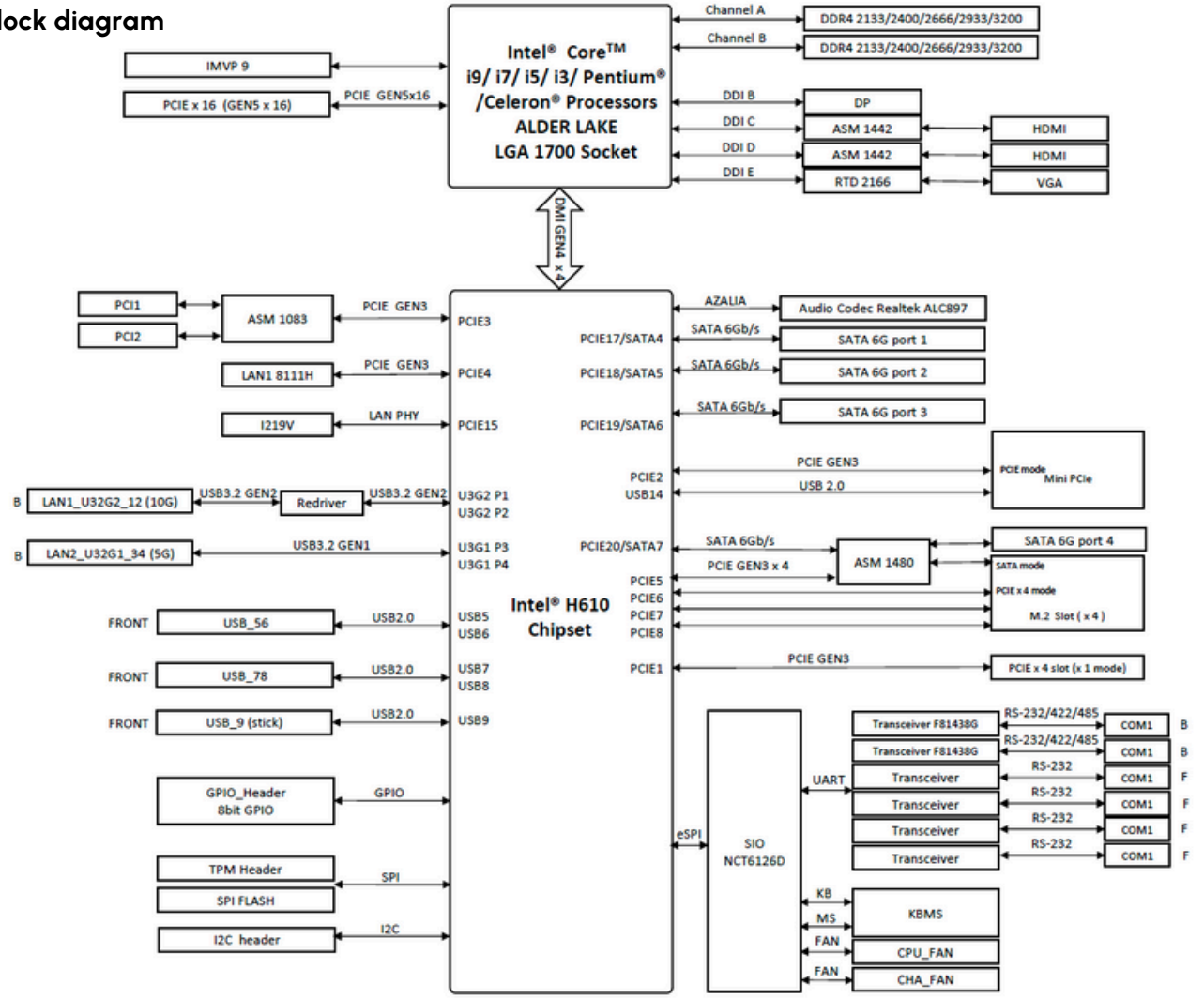
ASUS IoT H610M-IM-A: Micro-ATX industrial motherboard with versatile features

The ASUS IoT H610M-IM-A is a Micro-ATX industrial motherboard that boasts extensive I/O capabilities and advanced connectivity options. With multiple display outputs, legacy options for industrial applications and dual LAN ports, this motherboard offers versatile connectivity options.The ASUS IoT H610M-IM-A impresses with its rich expansion options with one PCIe slot, one Mini PCIe, one M.2 M-Key and multiple COM ports. The ability to support up to three displays simultaneously makes this motherboard the ideal choice for a variety of embedded applications.

ASUS: Market leader and quality assurer

As the world's leading brand for motherboards, ASUS focuses on durable, industrial-grade components that enable reliable 24/7 operation even in harsh environments. These components are specifically designed for use in various vertical markets.

Block diagram



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Specifications	ASUS IoT H610M-IM-A
SYSTEM	
CPU	LGA1700 for Intel® Core ™ 14th/13th/12th Gen. i9/ i7/ i5/ i3/ Pentium® / Celeron® processors, Max. 65W TDP
Chipset	Intel® H610
RAM	Up to 64GB DDR4 2133/2400/2666/2933/3200 MHz (two U-DIMM slots)
TPM	1x SPI TPM header
Watchdog	Yes
Storage	4x SATA Gen 3.0, up to 6Gb/s SATA port no. 4 is shared with M.2 1x M.2 socket with M-Key, type 2242/2260/2280(SATA/PCIe x4 mode)
Expansion	1x PCIe 5.0 x16 slot 1x PCIe 3.0/2.0 x4 slot (x1 speed) 2x PCI slot 1x Full/Half Mini-PCIe
Operating System	Windows® 10 (64bit) Windows® IoT Enterprise Ubuntu RedHat Enterprise Fedora Workstation OpenSUSE
INTERFACE	
Ethernet	2x RJ-45 (10/100/1000 Mbps): 1x Realtek® 8111H 1x Intel® i219V
USB	2x USB 3.2 Gen 2 ports 2x USB 3.2 Gen 1 ports
COM	2x COM: RS-232/ 422/ 485 ports
Video	2x HDMI connections, supports HDMI 2.1, up to 4,096 x 2,160 @ 60Hz 1x DisplayPort connection, supports 1.4, up to 4,096 x 2,160 @ 60Hz 1x VGA port, supports up to 1,920 x 1,200 @ 60Hz Supports the configuration of 3 displays via multiple interfaces: VGA/DP/HDMI1/HDMI2
Audio	2x Audio-Jack (Line-Out, Mic-In), Audio codec Realtek ALC897
Internal Connectors	Serial port connector: 4x COM ports (4x RS-232) USB 2.0: 2x header support for 4x USB 2.0 ports, 1x socket CPU fan/case fan: 1x header (PWM mode) / 1x header (PWM mode) Enclosure intrusion: 1x header Audio front panel (AAFP): 1x header System panel: 1x header (10-1 pin) Clear CMOS jumper: 1x header Loudspeaker: 1x (4-pin) GPIO: 1x header (8 bit) AT/ATX selection header: 1x header PS/2: 1x header I2C header: 1x header Power connector: 1x 24-pin ATX power connector, 1x 8-pin ATX power connector
ENVIRONMENTAL	
Power Supply	ATX
Operating Temperature	0° ~ 60°C
Storage Temperature	-40° ~ 85°C
Humidity	10% ~ 95%, non-coagulating
Dimensions	Micro-ATX, 244 x 244 mm
Certifications	CE, FCC

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Order Information	ASUS IoT H610M-IM-A
MODEL NO. [1]	
90ME04k0	H610M-IM-A, LGA1700, H610, VGA, DP, HDMI, COM, MB
PACKING LIST [2]	
13020	1x I/O shield (default)
14013	1x SATA 6G cable (default)
13020	2x M.2 screw pack (default)
13071	1x M.2 heatsink (optional)

[1] The part number might vary for different regulations and package. Please consult the TPM in your region for exact 90PN.

[2] The part number might vary due to part number revision.