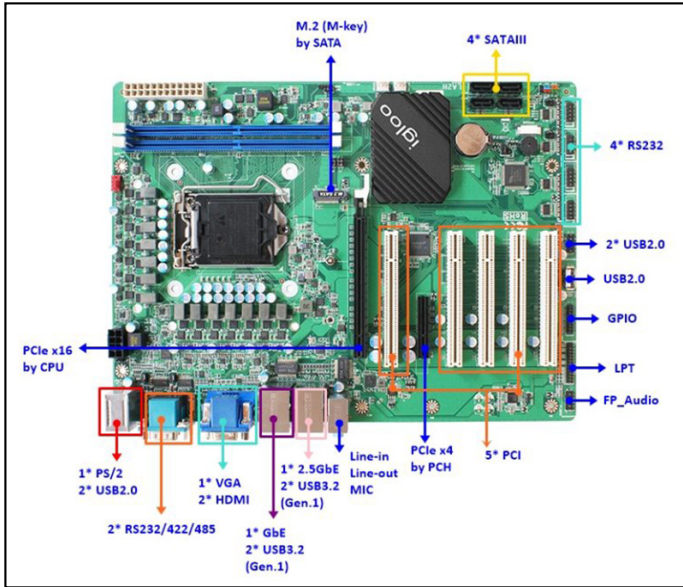


ATX Motherboard with Intel® LGA 1200 Socket and H420E Chipset



Features

- **Powered by Intel® LGA1200 Socket Processor: Supports 10th/11th Gen Core Processors (Max. 125W)**
- **Memory Support: Dual-channel DDR4 2933/2666MHz, up to 64GB**
- **Enhanced Display Options: 1 x VGA and 2 x 4K HDMI for multi-display configurations**
- **Dual GbE Networking: Intel® i226-V 2.5GbE and Intel® i219-LM GbE for high-speed, reliable connections**
- **Versatile Storage Options: 4 x SATA III (SATA4 co-located with M-Key), and 1 x M.2 M-Key (SATA interface)**
- **Comprehensive I/O Interfaces: 4 x USB 3.2 Gen1, 5 x USB 2.0, 2 x RS232/422/485, and 4 x RS232 ports**
- **Flexible Expansion: Includes 1 x PCI-E x16, 1 x PCI-E x4, and 5 x PCI slots for versatile configurations**
- **Reliable Cooling Design: Supports 1 x CPU FAN and 2 x System FAN connectors for optimized thermal performance**

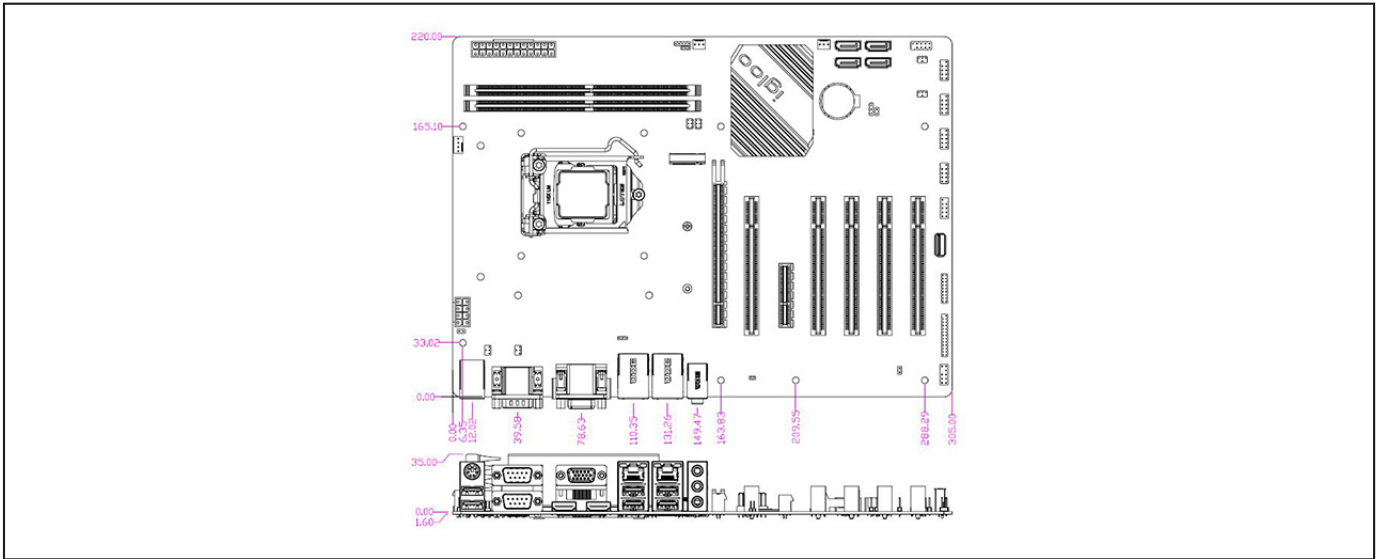
Packing List

PART NUMBER	DESCRIPTION	QTY
LA2H-H420E Series	LA2H-H420E Series M/B	1
F04-MB-060-F	LA2H I/O Shield	1
G01-COM9X2-30A-1F	COM Cable	1
G01-SATA3-BL-1F	CABLE for SATA III 50cm Blue w/LOCK	2

Specifications

SYSTEM	
MB FORM FACTOR	ATX
CPU	Intel® LGA1200 10/11th Gen Socket Processor (Formerly Comet Lake-S, TDP 125W)
CHIPSET	Intel® H420E
MEMORY	2 x DDR4 2933/2666MHz LONG DIMM DRAM, up to 64GB
BIOS	AMI 256Mb Flash ROM
WATCHDOG TIMER	255 Levels
SECURITY	TPM2.0 (Optional)
DIMENSION (W X D)	305.0 (W) x 220.0 (D) mm (12" x 8.7")
OS SUPPORT	Windows® 11 (64bit) Windows® 10 (64bit) Linux
POWER	
POWER REQUIREMENT	ATX Power Supply
POWER ON MODE	AT / ATX
CONNECTOR	24+8-pin ATX PWR
DISPLAY	
GPU	Intel® HD Graphics
HDMI	2 x HDMI 1.4 (Max Resolution: 4096 x 2160@30Hz)
VGA	1 x VGA (Max Resolution: 1920 x 1080 @60Hz)
AUDIO	
Line-in	1 x Audio Jack for Line-In
Line-out	1 x Audio Jack for Line-Out
MIC-in	1 x Audio Jack for MIC-In
LAN	
ETHERNET	1 x RJ45 for Intel® i226-V 2.5GbE 1 x RJ45 for Intel® i219-LM GbE
USB PORT	
USB	4 x USB 3.2 Gen 1x1 (5Gbps, Formerly USB 3.1 Gen 1) 2 x USB 2.0 Internal Header for 2 x USB 2.0 Internal USB Type A (Vertical) for 1 x USB 2.0
SERIAL PORT	
COM	2 x DB-9 for RS-232/422/485 with 5V/12V header Internal Header for 4 x RS-232 with 5V/12V header
INTERNAL I/O	
GPIO	16 bit GPIO (5V) Co-lay LPT
SMBUS	Yes
I2C	Yes
FAN	1 x CPU Fan Header (Smart Fan) 2 x System Fan Header
ADDITIONAL	1 x Chassis Intrusion 1 x LPT (Co-lay GPIO)
STORAGE	
SATA	4 x SATA III (SATA4 Co-Lay M-key)
EXPANSION	
M.2	1 x M-key 2242/2280 (SATA interface, Co-lay SATA4)
PCI-E	1 x PCIe x16 1 x PCIe x4 5 x PCI
ENVIRONMENT & CERTIFICATION	
SHOCK	15G, 11ms duration
VIBRATION	1 Grms/ 5- 500Hz/ Operation
OPERATING TEMPERATURE	0°C ~ 60°C (32°F ~ 140°F)
STORAGE TEMPERATURE	-20°C ~ 85°C (-4°F ~ 185°F)
OPERATING HUMIDITY	10 ~ 90% Relative Humidity, Non-condensing
CERTIFICATION	CE/FCC Class A
ESG DECLARATION	EU RoHS China RoHS REACH

Dimension Unit: mm



Ordering Information

PART NUMBER	LA2H-H420E	LA2H-H420E2
CPU	Intel® Socket LGA1200 CPU	Intel® Socket LGA1200 CPU
SECURITY		TPM2.0
POWER REQUIREMENT	ATX Power Supply	ATX Power Supply
GPU	Intel® HD Graphics	Intel® HD Graphics
HDMI	2 x HDMI	2 x HDMI
VGA	1 x VGA	1 x VGA
ETHERNET	1 x GbE	1 x GbE
ETHERNET	1 x 2.5GbE	1 x 2.5GbE
USB	4 x USB 3.2	4 x USB 3.2
USB	5 x USB 2.0	5 x USB 2.0
COM	2 x RS-232/422/485	2 x RS-232/422/485
COM	4 x RS-232	4 x RS-232
SATA	4 x SATA III	4 x SATA III
M.2	1 x M-Key 2242/2280	1 x M-Key 2242/2280
PCIe	1 x PCIe x16	1 x PCIe x16
PCIe	1 x PCIe x4	1 x PCIe x4
PCIe	5 x PCI	5 x PCI
OPERATING TEMPERATURE	0°C - 60°C (32°F - 140°F)	0°C - 60°C (32°F - 140°F)