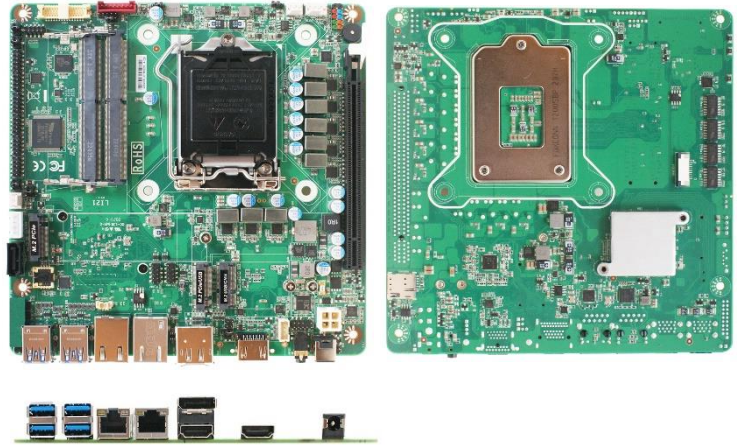


LI21-H420E Series

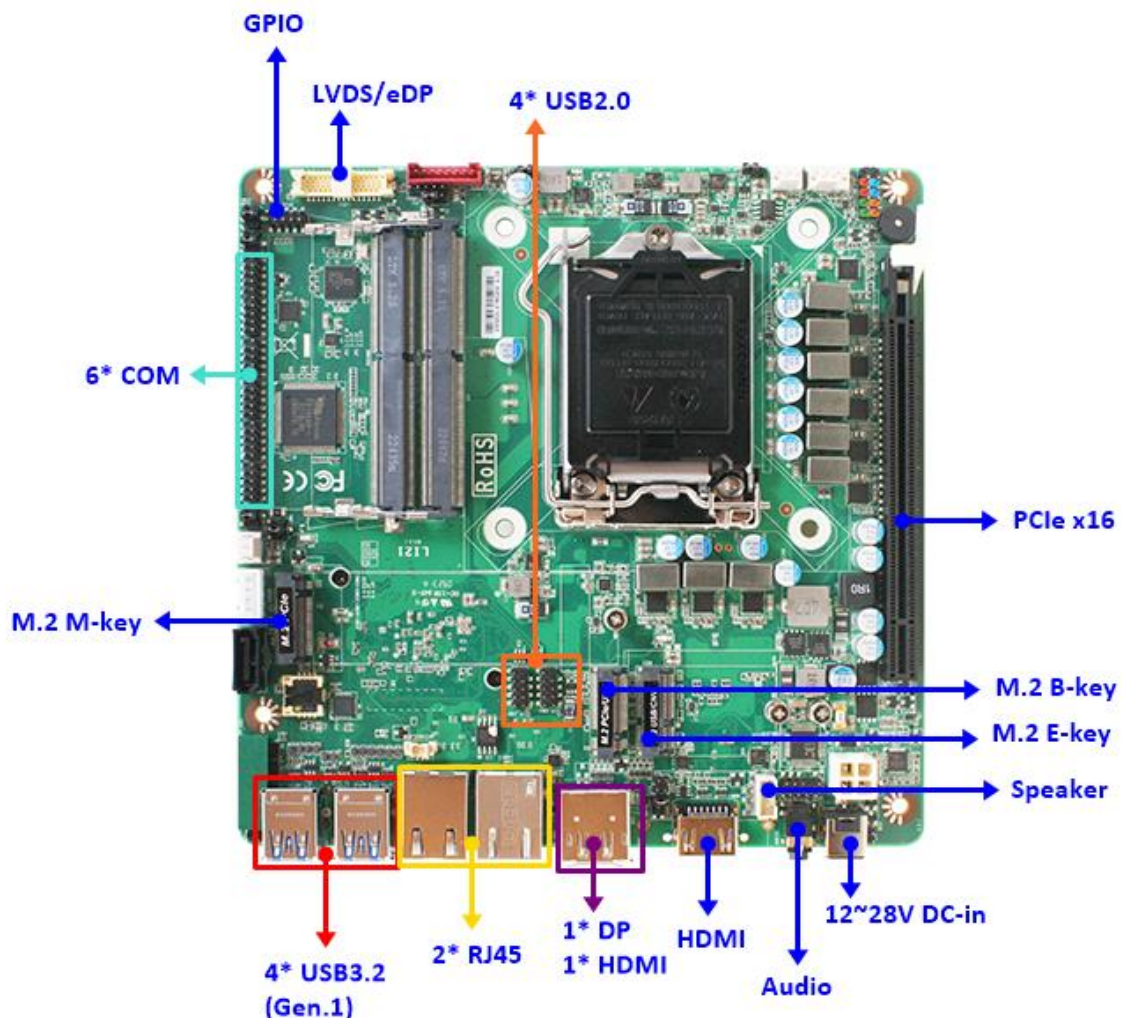
Intel® Comet Lake-S H420E chipset, support LGA1200 processor (Max. 65W), DDR4 up to 64GB

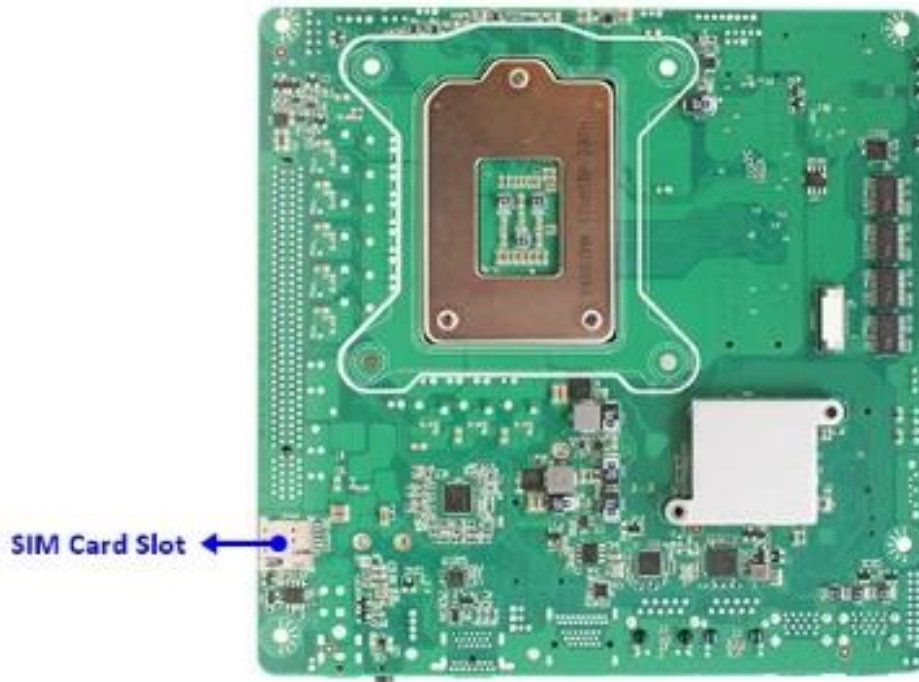
Features

1. Intel® LGA1200 Socket supports 10/11th Gen. Core Processor (Max 65W)
2. Intel® Comet Lake-S H420E chipset
3. 2* DDR4 2933/2666MHz up to 64GB
4. 1* Intel® i226-V 2.5GbE, 1* Intel® i219-LM GbE
5. 1* M.2 M-Key (PCI-Ex4), 1* M.2 E-Key (USB2.0/PCI-Ex1), 1* M.2 B-Key(USB3.2/USB2.0)
6. 1* SATA III (6Gb/s), 1* PCI-E x16 slot
7. 1* DP (Co-lay VGA), 2* HDMI, 1* LVDS/eDP Output
8. 2* RS232/422/485, 4* RS232, 4* USB3.2 (Gen1), 4* USB2.0
9. Support Onboard TPM2.0 (LI21-H420E2, option)
10. 12-28V DC-in
11. Thin Mini-ITX Form Factor (170x170mm)



I/O Diagram





Specifications

Model	<ul style="list-style-type: none"> • LI21-H420E • LI21-H420E2 (Onboard TPM2.0)
Form Factor	<ul style="list-style-type: none"> • Thin Mini-ITX (170 * 170mm)
Processor System	<ul style="list-style-type: none"> • Intel® LGA1200 Socket supports 10/11th Gen Core Processor, Max. 65W • Intel® Comet Lake-S H420E Chipset • AMI 256M Flash ROM
Memory	<ul style="list-style-type: none"> • 2* DDR4 2933/2666MHz SO-DIMM up to 64GB
Storage	<ul style="list-style-type: none"> • 1* M.2 M-key (2280, PCI-Ex4 interface, support NVMe SSD) • 1* SATAIII
Expansion	<ul style="list-style-type: none"> • 1* M.2 E-key (2230, PCI-Ex1/USB2.0, support WIFI/BT) • 1* M.2 B-key (3042/3052, USB3.2/USB2.0, support 3G/4G/5G Module) • 1* PCI-E x16 slot (Maximum power supply 75W)
Ethernet	<ul style="list-style-type: none"> • 1* Intel® i226-V 2.5GbE • 1* Intel® i219-LM GbE
Graphics	<ul style="list-style-type: none"> • Intel® HD Graphics, shared Memory • 2* HDMI 1.4 (Max Resolution : 4096x2160@30Hz, HDMI1 Co-lay VGA) • 1* DP1.4 (Max Resolution : 5120x3200@60Hz) • 1* LVDS/eDP (Max Resolution : LVDS: 2560x1600@60Hz) • Support Dual Displays
Audio	<ul style="list-style-type: none"> • HD audio: Realtek ALC888S
Watchdog Timer	<ul style="list-style-type: none"> • From Super I/O to drag RESETCON# • 256 segments (10sec ~ 255min)
Internal I/O	<ul style="list-style-type: none"> • 4* USB2.0 • 2* RS232/422/485(COM1/2 Support 5V/12V TTL) • 4* RS232 (COM3/4 Support 5/12V TTL) • 1* SATAIII (6.0Gb/s) • 1* LVDS/eDP (Choose one from two) • 1* Inverter (PH2.0) • 1* M.2 M-key (2280, PCI-Ex4 interface, Support NVMe) • 1* M.2 E-key (2230, PCI-Ex1/USB2.0 interface) • 1* M.2 B-key (3042/3052, USB3.2/USB2.0 interface) • 1* PCI-Ex16 slot (by CPU) • 1* GPIO (8 bit,5V) • 1* CPU FAN (W/ Smart FAN) • 2* System FAN (W/O Smart FAN) • 1* 4pin DC Connector • 1* 3pin Speaker (3W Amplifier) • 1* Chassis intrusion • 1* SMBUS/ I2C • 1* AT mode

External I/O	<ul style="list-style-type: none"> • 4* USB3.2 (Gen1) • 2* HDMI1.4 (HMDI1 Co-lay VGA) • 1* DP1.4 • 2* RJ45 • 1* Audio Jack (Line-out + MIC) • 1* DC Jack
Power	12-28V DC-in - AT: Directly PWR on as Power input ready - ATX: Press Button to PWR on after Power input ready
Compliance	<ul style="list-style-type: none"> • CE, FCC, RoHS, REACH compatible
Temperature	<ul style="list-style-type: none"> • Operating Temperature: 0 ~ 60° C • Storage Temperature: -20 ~ 70° C • Humidity: 10% ~ 90% RH @40°C (non-condensing)
OS Support	<ul style="list-style-type: none"> • Windows 10, Windows 11, Linux
Warranty	<ul style="list-style-type: none"> • 2 Years limited warranty

* Specifications subject to change without notice, not responsible for typographical errors. Does not include HDD or OS.

Standard Accessories

Part Number	Description
	LI21-H420E / LI21-H420E2 M/B
F04-MB-XXX-F	I/O shield
G01-COM-H2M22-1F	COM Cable
G01-SATA3-BL-1F	SATA Cable

Mechanical Drawings (Unit=mm)

