PH10FEU

Micro-ATX Form Factor Intel® Coffee Lake Processor with Q370 / H310 Chipset

Features



- Intel® Q370 / H310 Chipset
- Intel® vPro technology supported
- 4 x DDR4 DIMM, support up to 64GB
- Support triple display for 2 x DisplayPort and DVI
- Support PCIe X16 (Gen 3) slot, 2 x PCIe X4 (Gen 3) slot, and M.2 slot
- 6 x SATAIII (support RAID 0, 1, 5, 10 w/ Q370)
- 2 x Intel® Gigabit Ethernet
- 4 x USB 2.0, 2 x USB 3.0, 4 x USB3.1 (Gen 2), 4 x COM

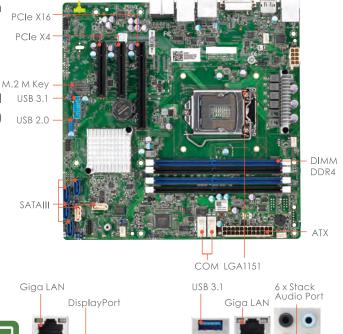
(intel)

CORE 17

ATX power input

(intel)

CORE 13



(intel)LAN X2 o <u>::::</u>: o

(intel)

CORE 15

4 COM port

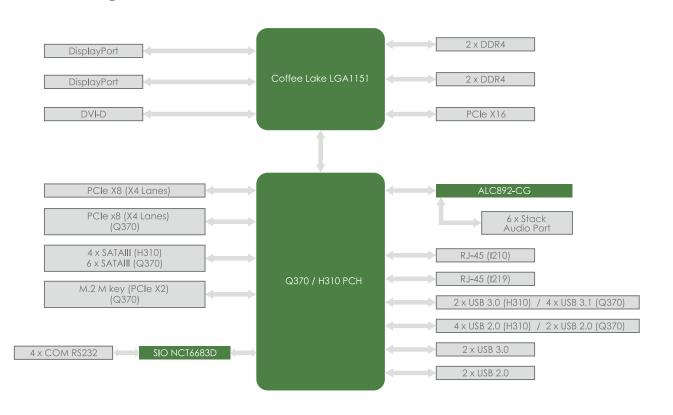








Block Diagram



PH10FEU Micro ATX



MECHANICAL	
Form Factor	Micro-ATX 9.6" x 9.6" (244mm x 244mm)
SYSTEM	
Processor	9th & 8th Gen Intel® Coffee Lake LGA1151 Socket Processor, Core i7/i5/i3 6-core TDP Max. 95W, Core i9 8-core TDP Max 35W
Chipset	
	Intel® Q370 (Support RAID 0 / 1 / 5 / 10)/ Intel® H310
Memory	DDR4 2666MHz, 4 x 288-pin U-DIMM, Max. 64GB (Non-ECC)
Graphics	Intel® HD Graphics
Ethernet Audio	Intel® 1219-LM Giga LAN + Intel® 1210-AT Giga LAN Realtek® ALC892
	Nuvoton NCT6683D
I/O Chipset TPM	
IPM	Nuvoton NPCT750AAAYX TPM2.0 (Optional)
Expansion Slot	1 x PCle 3 0 X16 slot 2 x PCle 2.0 X8 slot (X4 Lanes) for Q370 1 x PCle 2.0 X8 slot (X4 Lanes) for H310 / M 2 2242 / 2280 M key (PCle)
BIOS	256 Mbit SPI, AMI BIOS
H / W Monitor	Temperature Monitor, Voltage Monitor, Fan Monitor
Watchdog Timer	1~255 Steps by Software Program
Smart Fan Control	CPU Fan / System Fan
GRAPHICS	
VGA	_
DVI	Up to 4K (4096 x 2160) @30 Hz
HDMI	
DisplayPort	Up to 4K (4096 x 2304) @60 Hz
LVDS	——————————————————————————————————————
eDP (Option)	_
REAR I/O	
USB	4 x USB 3.1 Gen 2 (Q370), 2 x USB 2.0 (Q370), 4 x USB 2.0 (H310), 2 x USB 3.0 (H310)
Display I/O	1 x DVI-D, 2 x DisplayPort 1.2
Audio I/O	6 x Stack Audio Jack
LAN I/O	2 x RJ-45
Serial Port	
PS/2 Port	_
Others	_
INTERNAL CONNECTORS	
	6 x SATAIII / 4 x SATAIII (H310)
Storage USB	2 x USB 3.0 (Q370)
	2 x USB 2.0
Display I/O	_
Audio I/O	
Serial Port	4 x R\$232
PS/2 Port	-
Parallel Port	_
GPIO	- lock size CDU Fee Commonton by Amin Content Fee Commonton
Fan	1 x 4-pin CPU Fan Connector, 1x 4-pin System Fan Connector
Power	1 x ATX 24-pin, 1 x ATX 4-pin, 1 x AT/ATX Mode Select Jumper
Others	1 x Front Audio Header (Mic-in & Line-out), 1 x Chassis Intrusion, 1 x CMOS Jumper
POWER REQUIREMENT	
Power Input	ATX Power 8-pin + ATX Power 24-pin
ENVIRONMENTAL	
Operating Temperature	0 ~ 60°C (32 ~140°F)
Storage Temperature	-20 ~ 70°C (-4 ~ 158°F)
Operating Humidity	10% ~ 95% R/H, non-condensing
Certification	CE & FCC Class B
OS	
	Windows® 10 64-bit
OS Support	Linux (support by request)
	Linox (support by request)

Ordering Information

Mode l Number	Chipset	Display Port	DV I- D	Externa l USB 3.1/3.0/2.0	Internal USB 3.0/2.0	6-stack Audio Jack	RS232	LAN	M.2 (2280 M key) / SATA	PC l e X16	PC l e X4	Power
PH10FEU-Q370	Intel® Q370	2	1	4/0/2	2/2	1	4	2	1/6	1	2	ATX Power (24-pin + 8-pin)
PH10FEU-H310	Intel® H310	2	1	0/2/4	2/2	1	4	2	0 / 4	1	1	ATX Power (24-pin + 8-pin)

Packing List

	Packing	
• 1 x Motherboard	• 1 x 50cm SATA Cable	• 1 x I/O Bracket