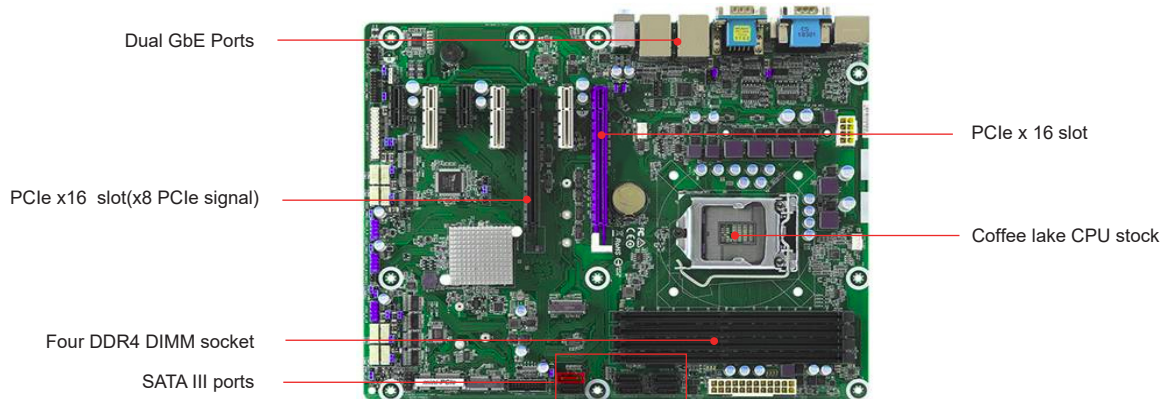


RUBY-D811-Q370

Intel® 8th/9th Gen Core™ Processors based ATX with DDR4 Long-DIMM up to 128 GB, VGA, 2x DP Ports, HDMI, Dual GbE LAN Ports, 10x COM Ports



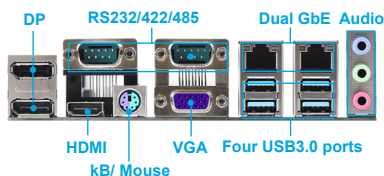
RUBY-D811 is based on Intel® Q370 chipset and Desktop processors including Intel® 8th/9th Gen Core™ i3/i5/i7 SKU. This board supports DDR4, PCIe 3.0 and SATAIII. Those features help you to build high performance and stable system.

FEATURES

- Intel® 8th/9th Gen Core™ Processors support
- Four Long-DIMMs support DDR4 Non-ECC DRAM up to 128 GB
- Supports dual Ethernet, 10x COM Ports, 6x USB 3.0 Ports, 6x SATA III Ports and Audio
- Two PCIe x16 (1x PCIe x8 signal), three PCIe x4, two PCIe x1, one mini-PCIe socket, one M.2 Key E for Wireless, one M.2 Key M for SSD

PCIe slot 1~3 switch function			
Slot1	x16	x8	x8
Slot2	/	/	x4
Slot3	/	x8	x4

REAR I/O



ORDERING GUIDE

AB1-3J36	RUBY-D811-Q370 (R).RUBY-D811-Q370.ATX IMB.LGA1151 Q370. w/ DDR4 /VGA/Dual DP/HDMI Dual GbE/COM/Audio/USB
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PACKING LIST

One RUBY-D811 motherboard
One Driver CD
One SATA Cable

GENERAL

Processor	Intel® 8 th /9 th Gen Core™ Processors CPU in LGA1151 package
Chipset	Intel® Q370
BIOS	AMI uEFI BIOS (SPI ROM)
Memory	Supports up to 128 GB DDR4 2400/2666 Non-ECC SDRAM on four Long-DIMM sockets
Storage Devices	6x SATAIII ports (one is shared with M.2 Key M)
Watchdog Timer	Programmable by embedded controller
Hardware Monitoring	System monitor (Voltage, Fan Speed and Temperature)
Expansion Interface	- 2x PCIe x16 (1x PCIe x8 signal) - 3x PCIe x4 slots, 2x PCIe x1 slots, 1x mini-PCIe socket - 1x M.2 Key M for SSD, 1x M.2 Key E for Wireless

I/O INTERFACE

Super I/O	NCT5104D
Audio	Audio Jack on rear I/O with Line-out/Mic-in with Realtek ALC887 Audio controller
Ethernet	- Intel® I219LM and Intel® I210AT Ethernet controller - 2x RJ45 connectors on rear I/O
Serial Port	- 2x RS232/422/485 ports on rear I/O - 8x RS232 ports on pin header
USB	- 4x USB 3.0 on rear I/O, 2x USB 3.0 on pin header - 6x USB 2.0 on pin header
GPIO	8-bit configurable controlled by embedded controller

DISPLAY

Graphic Controller	- Intel® Gen 9 graphic engine supports DirectX 12, OpenGL 4.6
Display Interface	- DP: Two DP ports on rear I/O, resolution up to 4K 4096x2304@60Hz - VGA: One VGA ports on rear I/O resolution up to 1920x1200 @ 60Hz - HDMI: One HDMI connector on rear I/O, resolution up to 4096x2160

Mechanical & Environment

Dimension	304.8mm(L) x 243.8mm(W)
Power Supply	ATX
Environment	- Operation temperature:0~60°C - Storage temperature: -20~80°C - Relative humidity:5~95%,non-condensing
MTBF	Over 100,000 hours at 40°C

