RUBY-D811-Q370
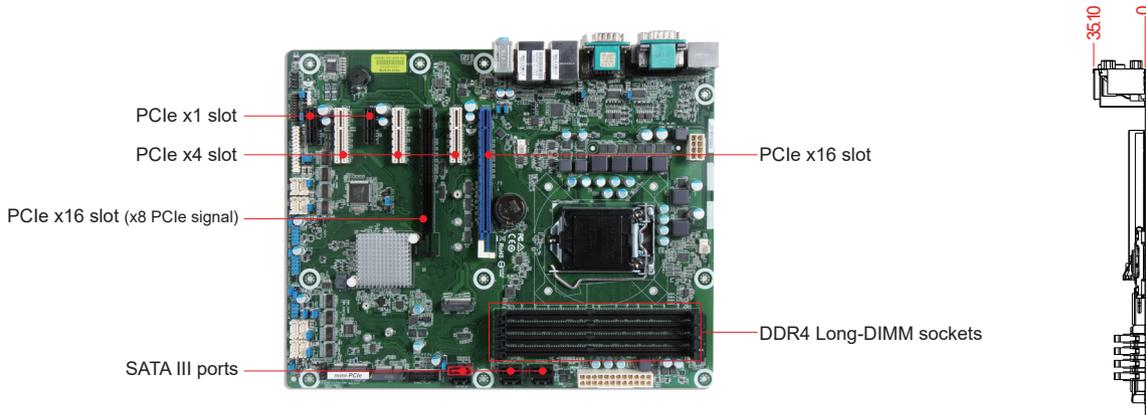
8/9th Gen Intel® Core™ Processors based ATX with DDR4 Long-DIMM up to 128GB, DP/HDMI/VGA, Dual GbE and 10 COM Ports

- PCIe x1 slot
- PCIe x4 slot
- PCIe x16 slot (x8 PCIe signal)
- SATA III ports
- PCIe x16 slot
- DDR4 Long-DIMM sockets

RUBY-D811-Q370 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 SATA III.Those features help you to build high performance and stable system.

FEATURES

- Intel® 8th/9th Gen Core™ Processors
- 4x Long-DIMM sockets support DDR4 Non-ECC SDRAM up to 128GB
- Dual Ethernet, 10x COM Ports, 6x USB 3.1 Ports, 6x SATA III Ports and Audio
- 2x PCIe x16 (1x PCIe x8 signal), 3x PCIe x4 slots, 2x PCIex1 slots
- 1x M.2 Type E socket for Wireless, 1x M.2 Type M socket for SSD, and 1x mini-PCIe slot

REAR I/O

- Dual DP
- RS-232/422/485
- Dual GbE LAN
- Audio
- HDMI
- PS/2
- VGA
- 4xUSB3.2 (Geul) ports

ORDERING GUIDE

AB1-3J36	**(R).RUBY-D811-Q370**
	ATX ESB.Q370 w/o ECC LGA1151.w/DDR4 / VGA/Dual DP/Dual GbE/COM/Audio/USB

PACKING LIST

One RUBY-D811-Q370 Main board
One I/O shield
One Installation CD
One SATA cable
One CPU coolor bracket

GENERAL

Processor	Intel® 8th/9th Gen Core™ Processors CPU in LGA1151 package
Chipset	Intel® Q370
BIOS	AMI uEFI BIOS
Memory	Supports up to 128GB DDR4 2400/2666MHz Non-ECC SDRAM on four Long-DIMM sockets
Storage Devices	6x SATA III ports (one is shared with M.2 Key M)
Watchdog Timer	Programmable watchdog timer, time out period from 1 sec to 255 secs.
Hardware Monitoring	System monitor (Voltage, Fan Speed and Temperature)
Expansion Interface	- 2x PCIe x16 (1 x PCIe x8 signal) - 3x PCIe x4 slots - 2x PCIe x1 slots - 1x M.2 Type E socket for Wireless - 1x M.2 Type M socket for SSD - 1x mini-PCIe socket

I/O INTERFACE

Super I/O	NCT5104D
Audio	- Realtek ALC887 High Definition Audio integrated in Intel SoC - Audio Jack on rear I/O with Line-in/ Line-out/ Mic-in
Ethernet	- Intel® I219LM and I210AT Ethernet controller - 2x RJ45 connectors on rear I/O
Serial Port	- 2x RS-232/422/485 ports on rear I/O - 8x RS-232 ports on board pin header
USB	- 4x USB 3.1 on rear I/O, 2x USB 3.1 on board pin header - 6x USB 2.0 on board pin header
Keyboard & Mouse	PS/2 Keyboard & Mouse Pin Header
GPIO	8-bit configurable controlled by embedded controller

DISPLAY

Graphic Controller	- Intel® UHD Graphics 630 supports DirectX 12, OpenGL 4.5 - Video decode HW acceleration support for H.264, H.265, MPEG2, VC-1/WMV9, JPEG, VP8, and VP9
Display Interface	- 1x HDMI port on rear I/O, resolution up to 4096x2160 - 2x DP ports on rear I/O, resolution up to 4096x2340 - 1x VGA port on rear I/O, resolution up to 1920x1200

Mechanical & Environment

Dimension	304.8mm(L) x 243.8mm(W)
Power Supply	ATX power input
Environment	- Operation Temperature: 0°C to 60°C - Storage Temperature: -20°C to 80°C - Relative Humidity: 5% to 95%, non-condensing
Certification	CE, FCC Class A
MTBF	Over 100,000 hours at 40°C