



## Memory

Memory Type : DDR4 @ 1.2V, 2666 MHz (Unbuffered Non-ECC)  
Memory Channel: Dual Channel  
Memory Capacity : Support total up to 32GB  
ECC Support : No

Memory Socket: 260-pin So-DIMM socket 2

## Audio

Codec: HD audio codec, Realtek ALC662

## Expansion Capability

PCIe 3.0 x 4 slot 1

M.2 (NGFF) M key 2242/2280 (PCIe / SATA) for storage 1

M.2 (NGFF) E key 2230 (PCIe / USB) for wireless 1

## External I/O

HDMI out 1

DP out 4

USB 3.1 gen 2 (10 Gb/s) 4

RJ-45 2

Line-Out 1

Mic-In 1

Line-In 1

## Internal I/O

eDP Connector 1

Front audio Header (Mic / HP) 1

DMIC Header 1

Internal Speaker (support 2W) 1

USB 2.0 ports 6

Serial port header (one configurable for RS232/422/485) 4

MiAPI Programmable header (support GPIO x 10, SMBUS x 1, UART x 1, Watchdog x1 ) with API library supported for Windows OS 1

SATA 3.0 6 Gb/s (PCH Q series Support RAID 0, 1) 3

Front Panel header 1

LVDS inverter power header 1

Clear CMOS header 1

Panel power Header (default 5V, 1 option to 12V, 3.3V)

CPU fan header 1

SYS fan header 1

## Security

Nuvoton NCT6116D

Intel® vPro™ Technology support

TPM security by Nuvoton NPCT750AAAYX (optional)

## LAN Support

Intel® I219 Gigabit (10/100/1000 Mb/s) LAN

Intel® I210 Gigabit (10/100/1000 Mb/s) LAN

|                                   |   |
|-----------------------------------|---|
| BIOS                              | Support for Advanced Configuration and Power Interface (ACPI) setting   |
| Instantly Available PC Technology | Suspend to RAM support<br>Wake on PCI Express, LAN, front panel, serial, and USB ports  |
| Hardware Monitor Subsystem        | Hardware monitoring through the Nuvoton6104D legacy I/O controller, including:<br>Remote thermal sensor<br>Speed control for 4-pin system fan header and 4-pin CPU fan header |
| Power Requirement Environment     | DC-in 12V (DIN 4Pin power cable) / ATX 4pin<br>Operating Temperature: 0 °C to +60 °C<br>Storage Temperature: -20°C to +80°C   |
| OS Support                        | Windows 10 64bit, Linux (support by request)  |
| Safety                            | CE<br>FCC   |