

- External graphics support via a PCI Express 2.0 x1 graphics add-in card connector

Audio

- 2 + 2 Channel High Definition Audio (HD Audio) using a Realtek* ALC283 audio codec supporting:

- Analog stereo line-out (back panel jack)
- In-chassis stereo speakers support (3 W/3 Ω via an internal header)

Expansion Capability

- PCI Express x1 add-in card connector 1
- M.2 (2242/2260/2280) with USB2.0 and SATA III signal for SSD 1
- M.2 (2230) with PCIe1 and USB2.0 signal for wireless 1

Peripheral Interfaces

- USB 2.0 front panel ports 2 (Header)
- USB 3.0 back panel connectors (blue) 4
- SATA 6.0 Gb/s 1
- SATA 6.0 Gb/s port (multiplexed with an m.2 slot) 1

Legacy I/O

- Legacy I/O Controller that provides:
- Serial port header 2
- Parallel port via an onboard header (Option with MiAPI header) 1

LAN Support

2x Intel I211-AT (10/100/1000 Mb/s) Ethernet LAN controller

BIOS

- BIOS resident in a Serial Peripheral Interface (SPI) Flash device
- Support for Advanced Configuration and Power Interface (ACPI), and System Management BIOS (SMBIOS)

Hardware Management

Nuvoton NCT6793D based subsystem, including:

- Voltage sense to detect out of range power supply voltages
- Thermal sense to detect out of range thermal values
- 2x 4-pin system fan header

Power Requirement

- DC connectivity via back-panel DC jack(2.5mm/ ID, 5.5mm/ OD)
- Internal 2 pin power connector

Environment

- Operating Temperature: 0°C to +60°C
- Storage Temperature: -20°C to +70°C

Safety

- CE
- FCC