

Features

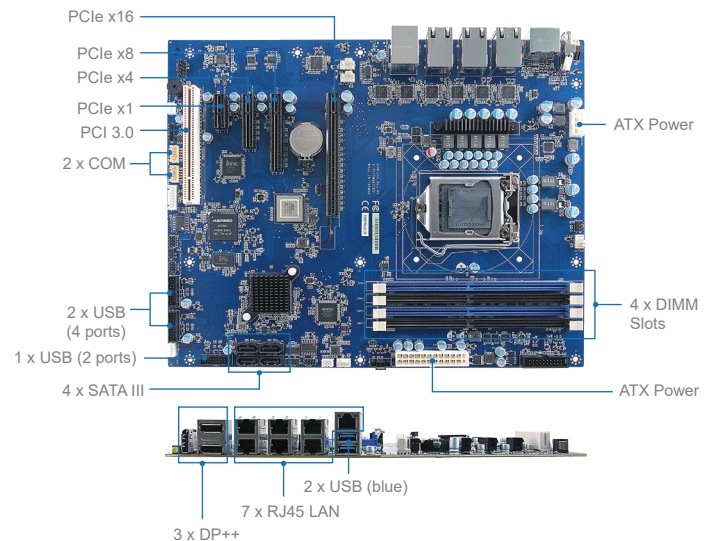
- Intel® 8/9th Gen. Core™ i7/i5/i3/Pentium®/Celeron®/Xeon® E Processor ATX Motherboard With Intel® C246 Chipset(CPU TDP support up to 95W TDP)
- 4 x 288-pin DDR4 2400/2666MHz DIMM socket, supports up to 128GB (ECC memory supported by CPU)
- 4 x SATA III , 6 x USB3.2 Gen1
- 1 x PCIe Gen3 x16 slot, 1 x PCIe Gen2 x8 slot, 1 x PCIe Gen3 x4 slot, 1 x PCIe Gen3 x1 slot and 1 x PCI 3.0 x1 slot
- 2 x USB3.2 Gen 2
- 7 x RJ45 (LAN 1 port shared with IPMI 2.0), 3 x DP++
- IPMI 2.0 with AST 2500 BMC controller onboard
- ATX Power

Specifications

System	
CPU	Intel® LGA1151 Socket Supports 8th/9th Generation Core™ i7/ i5/ i3 / Pentium®/Celeron®/ Xeon® E Process
System Chipset	Intel® C246 Chipset
System Memory	4 x 288-pin DDR4 2666MHz DIMM supports up to 128GB (ECC memory supported by CPU)
I/O Chip	Nuvoton® NCT6106D
BIOS	AMI uEFI BIOS, 256Mbit SPI Flash ROM
Watchdog Timer	H/W Reset, 5~255 seconds/5~255 minutes
H/W Status Monitor	CPU temperature monitoring, Voltages monitoring, CPU fan speed control
IPMI	IPMI 2.0 with AST 2500 BMC controller onboard
TPM	Onboard Infineon SLB9665 supports TPM 2.0
Supported OS	Windows : Windows 10 IOT Enterprise, Windows Server 2016, Windows Server 2019 Linux SUSE

Expansion	
PCI Express	Full Version: 1 x PCI 3.0 1 x PCIe 3.0 x16 slot 1 x PCIe 2.0 x8 slot 1 x PCIe 3.0 x4 slot 1 x PCIe 3.0 x1 slot
	Lite Version: 1 x PCI 3.0 1 x PCIe 3.0 x16 slot 1 x PCIe 3.0 x4 slot 1 x PCIe 3.0 x1 slot

Display	
Graphics Engine	Intel® 8th/9th Generation CPU integrated
Resolution	DP: 4096 x 2304 @ 60Hz HDMI : 4096 x 2160 @ 30Hz
Multiple Display	Supports 3 Independent Display
Display Interface	3 x DP++



Ethernet	
Chipset	Full Version: 7 x Intel® I210-AT Gigabit Ethernet Controllers Lite Version: 3 x Intel® I210-AT Gigabit Ethernet Controllers
LAN	Full Version: 7 x RJ45 (LAN 1 port shared with IPMI 2.0) Lite Version: 3 x RJ45 (LAN 1 port shared with IPMI 2.0)

Audio	
Chipset	Realtek HD Audio support 7.1 channel sound playback

External I/O	
USB	2 x USB 3.2 Gen 2
LAN	7 x RJ45 (LAN 1 port shared with IPMI 2.0)
Display	3 x DP++

Internal I/O	
USB	6 x USB 3.2 Gen 1
COM	2 x RS232
SATA	4 x SATA III
VGA	VGA connector from BMC output

Power Requirement	
Power Requirement	1 x Std. 24 pin ATX Connector 1 x 8 Pin SSI 12V Connector
ACPI	Support S0, S5
Power Type	ATX Mode

Mechanical & Environment	
Operating Temp	0 ~ 60°C (32 ~ 140°F) for M/B level
Storage Temp	-25 ~ 70°C (-13 ~ 158°F)

* All product specifications and images are subject to change without notice. Last update: 2021/12/21