



89.00 EUR

incl. 19% VAT, plus shipping

Support: [Specifications](#) | [Manual \[EN\]](#)

- Support 4th generation (Haswell) 22nm Intel® Core™ i7, i5, i3 processors
- Single channel DDR3 with four connectors for MAX. 32GB memory
- LVDS for embedded system (Optional)
- Features Dual Com Ports
- Integrated Six-channel High Definition audio
- Features dual high speed Gigabit Ethernet connection
- Support up to four ports USB3.0
- Eight Hi-Speed USB2.0 ports support
- One PCI connector for the future Add-in card (Optional)
- One PCI Express Mini Card connector for expansion (Optional)

Form Factor	Micro-ATX (244 millimeters [9.6 inches] x 244 millimeters [9.6 inches])	
Processor	4rd generation Intel® Core processor family with up to 95 W TDP in an LGA1150 socket	
Main Memory	Support for DDR3 1066/1333/1600 MHz SO-DIMMs (DDR3 1333 MHz and DDR3 1600 MHz SO-DIMMs operate at 1066 MHz only)	
	Support for up to 32 GB of system memory	
	240-pin DDR3 SO-DIMM	4
Chipset	Intel® Q87 Platform Controller Hub (PCH)	
Integrated Graphics	Intel® Graphics Media Accelerator 4600 (Intel® GMA 4600)	
External Graphics	External graphics support provided through the PCIe 3.0 x16 bus connector	
Audio	RealTek* ALC662/888 audio codec for 5.1 (6-channel) High Definition Audio (HD Audio) and AC '97 Audio. Front panel microphone/ headphone header with support for HD Audio or AC '97 Audio	

Legacy I/O	Legacy I/O Controller (Nuvoton* NCT6104D) that provides:Hardware management support	
	SSerial Port (Rear IO)	2
	Serial Port (On board)	2
	Parallel port via an onboard header	1
Expansion Capabilities	PCIe 3.0 x16 (Blue)	1
	PCIe 2.0 x1 (Black)	Either Option
	PCIe 2.0 x1 (Black)	1
	PCIe 2.0 x16 (x4 Lanes)	1
	PCI Express* Full-Mini Card slot with Half-Mini Card support	Either Option
Peripheral Interfaces	SUSB 3.0 back panel connectors (blue)	2
	USB 2.0 back panel connectors (black)	4
	PUSB 3.0 front panel ports	2 (Headers)
	PUSB 2.0 front panel ports	4 (Headers)
	Serial ATA (SATA) 6.0 Gb/s interfaces	6
Hardware Monitor Subsystem	Hardware monitoring through the Nuvoton* NCT6104D legacy I/O controller, including:	
	Remote thermal sensor	
	4-pin system fan header	
LAN Support	Intel® I217 Gigabit (10/100/1000 Mb/s) LAN	
	Intel® I210 Gigabit (10/100/1000 Mb/s) LAN	
BIOS	AMI UEFI BIOS Support for Advanced Configuration and Power Interface (ACPI)	
Instantly Available PC Technology	SSupport for PCI Express Revision 3.0	
	Wake on USB, PCI Express, LAN, serial, PS/2, and front panel	
Power Requirement	ATX12V	
Environment	Operating Temperature: 0 °C to +50 °C	
	Storage Temperature: -20°C to +70°C	
Safety	CE	
	FCC	
	UL	