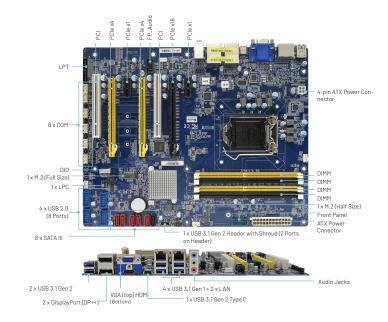
Features

- LGA1151 Socket supports 8th/9th Gen Intel® Core™/Pentium/ Celeron Processors (Coffee Lake/Coffee Lake Refresh) up to 95W TDP
- 4 x DIMM sockets support 2666/2400/2133 MHz DIMM up to 64GB system memory
- 1x PCIe x16, 2 x PCIe x4, 2 x PCIe x1, 2 x PCI, 2 x M.2
- Supports Triple Displays
- 1x HDMI, 2 x DisplayPorts (supports DP++), 1x VGA
- Onboard USB: 8 x USB 2.0 and 1 x USB 3.1 Gen 2 Header (2 Ports on Header)
- External USB: 6 x USB 3.1 Gen 1(Speed up to 5Gbps) and 1 x USB 3.1 Gen 2 Type C (Speed up to 10Gbps) Connectors
- 6 x COM Ports
- TPM 2.0

Specifications

CPU LGA1151 Socket supports 8th/9th Gen Intel® Core™/Pentium/ Celeron Processors up to 95W TDP Supported Intel® 9th gen processors: Intel® Core i7-9700E Intel® Core i7-9700E Intel® Core i5-9500TE Intel® Core i5-9500TE Intel® Core i3-9100E Intel® Core i3-9100E Intel® Core i3-9100TE System Chipset Intel® Q370 PCH Chipset System Memory 4 x DIMM sockets support 2666/2400/2133 MHz DIMM up to 64GB system memory Audio Realtek HD Audio support 7.1 channel sound playback Ethernet Intel® 1225/1226 Ethernet Controller Please note 05/12/2022 PCN update BIOS AMI 256Mb SPI BIOS Expansion 1 x PCle x16 Slot 2 x PCle x4 Slots 2 x PCle Slots 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 & SATA III) 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 & SATA III) 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 SATA III) 1 x M.2 Type A/E 2232 (with USB & PCle x1) Watchdog Timer H/W Status Monitoring System Temperature, Voltage, with Auto Throttling Control TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology (Intel® AMT) Intel® Rapid Storage Technology (Intel® AMT) Intel® Rapid Storage Technology (Intel® AMT) Intel® Smart Sound Technology Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Graphics Engine Intel® Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	•	
Celeron Processors up to 95W TDP Supported Intel® 9th gen processors: Intel® Core i7-9700E Intel® Core i5-9500TE Intel® Core i5-9500TE Intel® Core i3-9100TE Intel® Core i3-9100TE System Chipset Intel® Q370 PCH Chipset System Memory 4 x DIMM sockets support 2666/2400/2133 MHz DIMM up to 64GB system memory Audio Realtek HD Audio support 7.1 channel sound playback Ethernet Intel® 1225/1226 Ethernet Controller Please note 05/12/2022 PCN update BIOS AMI 256Mb SPI BIOS Expansion 1 x PCle x16 Slot 2 x PCle x4 Slots 2 x PCle x4 Slots 2 x PCle x1 Slots 2 x PCl Slots 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 & SATA III) 1 x M.2 Type A/E 2232 (with USB & PCle x1) Watchdog Timer Reset: 1 sec. ~ 255min. and 1 sec. or 1 min./step H/W Status Monitoring System Temperature, Voltage, with Auto Throttling Control TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Advanced Technologies Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Smart Sound Technology (Intel® PTT) Display Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	System	
Intel® Core i7-9700E Intel® Core i7-9700TE Intel® Core i5-9500TE Intel® Core i5-9500TE Intel® Core i3-9100E Intel® Core i3-9100E Intel® Core i3-9100TE System Chipset Intel® Q370 PCH Chipset System Memory 4 x DIMM sockets support 2666/2400/2133 MHz DIMM up to 64GB system memory Audio Realtek HD Audio support 7.1 channel sound playback Ethernet Intel® 1225/1226 Ethernet Controller Please note 05/12/2022 PCN update BIOS AMI 256Mb SPI BIOS Expansion 1 x PCle x16 Slot 2 x PCle x4 Slots 2 x PCle x4 Slots 2 x PCle x4 Slots 2 x PCl sots 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 & SATA III) 1 x M.2 Type A/E 2232 (with USB & PCle x1) Watchdog Timer Reset: 1 sec. ~ 255min. and 1 sec. or 1 min./step H/W Status Monitoring System Temperature, Voltage, with Auto Throttling Control TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology (Intel® AMT) Intel® Smart Sound Technology Intel® Control Display Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	CPU	
System Memory 4 x DIMM sockets support 2666/2400/2133 MHz DIMM up to 64GB system memory Audio Realtek HD Audio support 7.1 channel sound playback Ethernet Intel® I225/I226 Ethernet Controller Please note 05/12/2022 PCN update BIOS AMI 256Mb SPI BIOS Expansion 1 x PCle x16 Slot 2 x PCle x4 Slots 2 x PCle x1 Slots 2 x PCle x1 Slots 2 x PCle x1 Slots 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 & SATA III) 1 x M.2 Type A/E 2232 (with USB & PCle x1) Watchdog Timer Reset: 1 sec. ~ 255min. and 1 sec. or 1min./step H/W Status Monitoring System Temperature, Voltage, with Auto Throttling Control TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology (Intel® AMT) Intel® Optane Memory Support Intel® Optane Memory Support Intel® Smart Sound Technology (Intel® HD Audio) Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA		Intel® Core i7-9700E Intel® Core i7-9700TE Intel® Core i5-9500TE Intel® Core i5-9500E Intel® Core i3-9100E
Audio Realtek HD Audio support 7.1 channel sound playback Ethernet Intel® 1225/1226 Ethernet Controller Please note 05/12/2022 PCN update BIOS AMI 256Mb SPI BIOS Expansion 1 x PCle x16 Slot 2 x PCle x4 Slots 2 x PCle x1 Slots 2 x PCle x1 Slots 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 & SATA III) 1 x M.2 Type A/E 2232 (with USB & PCle x1) Watchdog Timer Reset: 1 sec. ~ 255min. and 1 sec. or 1min./step H/W Status Monitoring System Temperature, Voltage, with Auto Throttling Control TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Optane Memory Support Intel® Smart Sound Technology (Intel® HD Audio) Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	System Chipset	Intel® Q370 PCH Chipset
Ethernet Intel® I225/I226 Ethernet Controller Please note 05/12/2022 PCN update BIOS AMI 256Mb SPI BIOS Expansion 1 x PCle x16 Slot 2 x PCle x4 Slots 2 x PCle x1 Slots 2 x PCle x1 Slots 2 x PCle x1 Slots 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 & SATA III) 1 x M.2 Type A/E 2232 (with USB & PCle x1) Watchdog Timer Reset: 1 sec. ~ 255min. and 1 sec. or 1min./step H/W Status Monitoring System Temperature, Voltage, with Auto Throttling Control TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Smart Sound Technology (Intel® HD Audio) Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	System Memory	· · ·
Please note 05/12/2022 PCN update BIOS AMI 256Mb SPI BIOS Expansion 1 x PCle x16 Slot 2 x PCle x4 Slots 2 x PCle x1 Slots 2 x PCle x1 Slots 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 & SATA III) 1 x M.2 Type A/E 2232 (with USB & PCle x1) Watchdog Timer Reset: 1 sec. ~ 255min. and 1sec. or 1min./step H/W Status Monitoring System Temperature, Voltage, with Auto Throttling Control TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Optane Memory Support Intel® Smart Sound Technology Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	Audio	Realtek HD Audio support 7.1 channel sound playback
Expansion 1 x PCle x16 Slot 2 x PCle x4 Slots 2 x PCle x1 Slots 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 & SATA III) 1 x M.2 Type A/E 2232 (with USB & PCle x1) Watchdog Timer Reset: 1 sec. ~ 255min. and 1sec. or 1min./step H/W Status Monitoring System Temperature, Voltage, with Auto Throttling Control TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Optane Memory Support Intel® Smart Sound Technology Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	Ethernet	
2 x PCle x4 Slots 2 x PCle x1 Slots 2 x PCl Slots 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCle x4 & SATA III) 1 x M.2 Type A/E 2232 (with USB & PCle x1) Watchdog Timer Reset: 1 sec. ~ 255min. and 1 sec. or 1min./step H/W Status Monitoring System Temperature, Voltage, with Auto Throttling Control TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Smart Sound Technology Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	BIOS	AMI 256Mb SPI BIOS
H/W Status Monitoring System Temperature, Voltage, with Auto Throttling Control TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Smart Sound Technology Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	Expansion	2 x PCIe x4 Slots 2 x PCIe x1 Slots 2 x PCI Slots 1 x M.2 Type M 2242, 2260, 2280 Slot (with PCIe x4 & SATA III)
Monitor TPM TPM 2.0 Intel® Advanced Technologies Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Smart Sound Technology Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Graphics Engine Intel® Integrated Graphic 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	Watchdog Timer	Reset: 1 sec. ~ 255min. and 1sec. or 1min./step
Intel® Advanced Intel® Rapid Storage Technology (RAID 0, 1, 5 and 10 support) Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Smart Sound Technology Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Interfaces Intel® Integrated Graphic Intel® Interfaced Graphic Intel® Interfaced Graphic Intel® Intel® Interfaced Graphic Intel® Interfaced Graphic Intel® I	H/W Status Monitor	
Technologies Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Smart Sound Technology Intel® High Definition Audio (Intel® HD Audio) Intel® Platform Trust Technology (Intel® PTT) Display Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	TPM	TPM 2.0
Graphics Engine Intel® Integrated Graphic Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	Intel® Advanced Technologies	Intel® Rapid Storage Technology for PEI Express Storage Intel® Active Management Technology (Intel® AMT) Intel® Optane Memory Support Intel® Smart Sound Technology Intel® High Definition Audio (Intel® HD Audio)
Display Interfaces 2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA	Display	
	Graphics Engine	Intel® Integrated Graphic
Display Capability Supports 3 Independent Onboard Display	Display Interfaces	2 x DisplayPort (supports DP++), 1 x HDMI, 1 x VGA
	Display Capability	Supports 3 Independent Onboard Display



Audio Line-in, Line-out, Mic-in USB 2 x USB 3.1 Gen 2 Type A Connectors 1 x USB 3.1 Gen 2 Type C Connectors Note: USB 3.1 Gen 1 (Speed up to 5Gbps), same as USB 3.0 USB 3.1 Gen 2 (Speed up to 10Gbps) LAN and USB 2 x RJ45 + Dual USB 3.1 Gen 1 (Stacked) (4 x USB 3.1 Ports) Display 1 x DB-15 VGA 2 x DisplayPort (supports DP++) 1 x HDMI Internal I/O USB 4 x USB 2.0 Headers (8 Ports on Header) 1 x USB 3.1 Gen 2 Header with Shroud (2 Ports on Header) 5 x RS-232 Headers with Voltage Selection 1 x RS-232/422/485 Headers with Voltage Selection. * Mating connector to COM port headers: JST PHDR-10VS or equivalent		
2 x USB 3.1 Gen 2 Type A Connectors	External I/0	
1 x USB 3.1 Gen 2 Type C Connectors Note: USB 3.1 Gen 1 (Speed up to 5Gbps), same as USB 3.0 USB 3.1 Gen 2 (Speed up to 10Gbps) LAN and USB 2 x RJ45 + Dual USB 3.1 Gen 1 (Stacked) (4 x USB 3.1 Ports) Display 1 x DB-15 VGA 2 x DisplayPort (supports DP++) 1 x HDMI Internal I/O USB 4 x USB 2.0 Headers (8 Ports on Header) 1 x USB 3.1 Gen 2 Header with Shroud (2 Ports on Header) 5 x RS-232 Headers with Voltage Selection 1 x RS-232/422/485 Headers with Voltage Selection. * Mating connector to COM port headers: JST PHDR-10VS or equivalent SATA 5 x SATA III	Audio	Line-in, Line-out, Mic-in
USB 3.1 Gen 1 (Speed up to 5Gbps), same as USB 3.0 USB 3.1 Gen 2 (Speed up to 10Gbps) LAN and USB 2 x RJ45 + Dual USB 3.1 Gen 1 (Stacked) (4 x USB 3.1 Ports) Display 1 x DB-15 VGA 2 x DisplayPort (supports DP++) 1 x HDMI Internal I/O USB 4 x USB 2.0 Headers (8 Ports on Header) 1 x USB 3.1 Gen 2 Header with Shroud (2 Ports on Header) 5 x RS-232 Headers with Voltage Selection 1 x RS-232/422/485 Headers with Voltage Selection. * Mating connector to COM port headers: JST PHDR-10VS or equivalent SATA 5 x SATA III	USB	
Display 1 x DB-15 VGA 2 x DisplayPort (supports DP++) 1 x HDMI Internal I/O USB 4 x USB 2.0 Headers (8 Ports on Header) 1 x USB 3.1 Gen 2 Header with Shroud (2 Ports on Header) COM 5 x RS-232 Headers with Voltage Selection 1 x RS-232/422/485 Headers with Voltage Selection. * Mating connector to COM port headers: JST PHDR-10VS or equivalent SATA 5 x SATA III		USB 3.1 Gen 1 (Speed up to 5Gbps), same as USB 3.0
2 x DisplayPort (supports DP++) 1 x HDMI Internal I/O USB 4 x USB 2.0 Headers (8 Ports on Header) 1 x USB 3.1 Gen 2 Header with Shroud (2 Ports on Header) 5 x RS-232 Headers with Voltage Selection 1 x RS-232/422/485 Headers with Voltage Selection. * Mating connector to COM port headers: JST PHDR-10VS or equivalent SATA 5 x SATA III	LAN and USB	2 x RJ45 + Dual USB 3.1 Gen 1 (Stacked) (4 x USB 3.1 Ports)
USB 4 x USB 2.0 Headers (8 Ports on Header) 1 x USB 3.1 Gen 2 Header with Shroud (2 Ports on Header) 5 x RS-232 Headers with Voltage Selection 1 x RS-232/422/485 Headers with Voltage Selection. * Mating connector to COM port headers: JST PHDR-10VS or equivalent SATA 5 x SATA III	Display	2 x DisplayPort (supports DP++)
1 x USB 3.1 Gen 2 Header with Shroud (2 Ports on Header) COM 5 x RS-232 Headers with Voltage Selection 1 x RS-232/422/485 Headers with Voltage Selection. * Mating connector to COM port headers: JST PHDR-10VS or equivalent SATA 5 x SATA III	Internal I/O	
1 x RS-232/422/485 Headers with Voltage Selection. * Mating connector to COM port headers: JST PHDR-10VS or equivalent SATA 5 x SATA III	USB	
	СОМ	1 x RS-232/422/485 Headers with Voltage Selection. * Mating connector to COM port headers: JST PHDR-10VS or
	SATA	- · · - · · · · · · · · · · · · · · · ·

Ordering Info	
BC370Q	Intel 0370 ATX Motherboard supports 8th Gen Intel Coffee Lake Processors
Accessory Included	1xI/O Shield
182000000044	2.00mm pitch 11.8" length Parallel cable w/ full height bracket. 30cm DB25 Male > 26pin 2mm pitch
182000000073	2.00mm pitch 19.7" (50cm) length dual port serial cable w/ full height bracket. 50cm, 10pin 2mm pitch, wafer> DB9 Molded Ribon Cable
183000000006	2.00mm pitch 12" length Serial cable
182437200040	2.54mm pitch 14″ length Dual port USB cable w/ full height bracket. 40cm, 10pin Dual Row 2.54mm Pitch > Dual Molded USB

^{*} All product specifications and images are subject to change without notice. Last update: 05/12/2022



BCM Advanced Research