

C7Z170-OCE

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Desktop,
Support Overclocking

Key Features

1. Single socket H4 (LGA 1151) supports Intel® 7th/6th Gen. Core™ i7/i5/i3 series, Intel® Celeron® and Intel® Pentium®
2. Intel® Z170 Express Chipset
3. Up to 64GB Non-ECC UDIMM, DDR4-3300MHz (OC), in 4 DIMM slots
4. Single GbE LAN port (Intel® i219V) Single GbE LAN port (Intel® i210-AT)
5. 6 SATA3 (6Gbps); RAID 0, 1, 5, 10
6. 3 PCI-E 3.0 x16 (run at 16/NA/16 or 16/8/8), 2 PCI-E 3.0 x1 (in x4) slots
7. 1 PCIe M.2 (PCIe x4, support 2260/2280/22110)
8. B 3.0 (2 rear + 2 via header) B 2.0 (2 rear + 4 via headers) B 3.1 (10Gbps) Type C (rear) B 3.1 (10Gbps) ports (headers)
9. 1 DVI-D, 1 DP (Display Port), 1 HDMI 1.4
10. HD Audio 7.1 channel connector by Realtek ALC1150
11. UEFI BIOS support

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Tested M.2 List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Quick Reference Guide](#)
- ▶ [Update Your BIOS](#)
- ▶ [How to Reflash BIOS](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)
- ▶ [OS Compatibility](#)
- ▶ [Guide to enable Keyboard and Mouse under Windows 7 Installation](#)

Specifications

Product SKUs	
Motherboard	■ C7Z170-OCE
Physical Stats	
Form Factor	■ ATX
Dimensions	■ 12" x 9.6", (30.5 cm x 24.4 cm)
Processor/Cache	
CPU	■ Intel® 7th ¹ /6th Gen Core i7/i5/i3 series, Intel® Celeron®, Intel® Pentium® processors; CPU TDP support up to 160W TDP ■ Single Socket H4 (LGA 1151)
Note	† BIOS version 2.0 or above is required
System Memory	
Memory Capacity	■ 4x 288-pin DDR4 DIMM slots ■ Supports up to 64GB DDR4 Non-ECC Un-Buffered memory (UDIMM) in 4 DIMM slots
Memory Type	■ Frequency up to 3300MHz (OC) non-ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs ■ Support overclocking up to 3300MHz* * Please check the operation manual for supported components
DIMM Sizes	■ 16GB, 8GB, 4GB, 2GB, 1GB
Memory Voltage	■ 1.2V
On-Board Devices	
Chipset	■ Intel® Z170 Express Chipset
SATA	■ SATA3 via PCH w/ RAID 0, 1, 5, 10
Network Controllers	■ Intel® i219V Controller ■ Intel® i210-AT Controller ■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	■ RealTek ALC1150 High Definition Audio
Input / Output	
SATA	■ 6x SATA3 (6Gbps) ports
LAN	■ 2x RJ45 Gigabit Ethernet LAN ports
USB	■ 4x USB 3.0 ports (2 rear, 2 via headers) ■ 6x USB 2.0 ports (2 rear, 4 via headers) ■ 1x USB 3.1 (10Gbps) Type C port (rear) ■ 2x USB 3.1 (10Gbps) ports (header)
Audio	■ 7.1 HD Jacks
Display	■ 1x DVI - D, 1x DP (Display Port), 1x HDMI 1.4

Chassis (Optimized for C7Z170-OCE)	
Mid/Mini Tower Chassis:	■ SC732D4-903B ■ SC732D4-865B ■ SC732G-000B ■ SCGS50-000R
4U / Tower Chassis:	■ SC743TQ-1200B-SQ
Important Chassis Notes	■ To support the new generation Intel® Xeon® processor-based motherboards, Revision M chassis is recommended. Please talk to your sales representative for details.
Expansion Slots	
PCI-Express	■ 3 PCI-E 3.0 x16 slots (run at 16/NA/16 or 16/8/8) ■ 2 PCI-E 3.0 x1 (in x4) slots ■ 1 PCIe M.2 (PCIe x4, support 2260/2280/22110)
System BIOS	
BIOS Type	■ 128Mb SPI Flash EEPROM with AMI BIOS
BIOS Features	■ DMI (SMBIOS) 2.7 ■ ACPI 5.0 ■ USB Keyboard support
Management	
Software	■ SuperDoctor® 5 ■ Watch Dog
Power Configurations	■ ACPI / ACPM Power Management ■ Main Switch Override Mechanism ■ Power-on mode for AC power recovery
PC Health Monitoring	
Voltage	■ Monitors for CPU Cores, +1.8V, +3.3V, +5V, +/-12V, +3.3V Standby, +5V Standby, VBAT, HF, Memory, PCH Temp., System Temp., and memory Temp. ■ 5-Phase-switching voltage regulator with auto-sense from 0.8375V-1.60V
FAN	■ Total of five 4-pin fan headers supporting up to 5 fans ■ 5x fans with tachometer status monitoring ■ Status monitor for speed control ■ Status monitor for on/off control ■ Support 3-pin fans (w/o speed control) ■ Low noise fan speed control ■ Pulse Width Modulated (PWM) fan connectors ■ Monitoring for CPU and chassis

Serial Port / Header	<ul style="list-style-type: none"> 1x COM port (header) 	Temperature	<ul style="list-style-type: none"> environment CPU thermal trip support FC temperature sensing logic Thermal Monitor 2 (TM2) support PECI
TPM	<ul style="list-style-type: none"> 1x TPM Header 	LED	<ul style="list-style-type: none"> CPU / System Overheat LED +5V Standby alert LED
		Other Features	<ul style="list-style-type: none"> Chassis intrusion detection Chassis intrusion header

Note: For optimized or compatible chassis, additional parts may be required, please check with Supermicro sales rep

Parts List

Parts List (Bulk Package)			
	Part Number	Qty	Description
Motherboard	MBD-C7Z170-OCE -O	1	C7Z170-OCE Motherboard
I/O Shield	MCP-260-00107-0N	1	STD I/O SHIELD