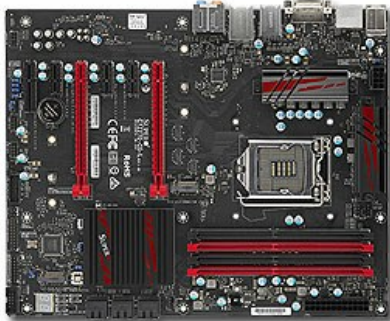


C7Z270-CG-L

Products ▶ Motherboards ▶ Core Boards ▶ [C7Z270-CG-L]



Desktop,
Support Overclocking

Key Features

1. Single socket H4 (LGA 1151) supports Intel® 7th/6th Gen. Core™ i7/i5/i3 series
2. Intel® Z270 Express Chipset
3. Up to 64GB Non-ECC UDIMM, DDR4-2800MHz (OC), in 4 DIMM slots
4. 1 GbE LAN port via Intel® i219V
5. 6 SATA3 (6Gbps); RAID 0, 1, 5, 10
6. 2 PCI-E 3.0 x16 (16/NA or 8/8), 1 PCI-E 3.0 x4, 3 PCI-E 3.0 x1
7. 2 PCIe 3.0 x4 M.2
8. 6 USB 3.0 (4 rear, 2 via header) 6 USB 2.0 (2 rear, 4 via headers) 2 USB 3.1 (1 Typa A, 1 Type C)
9. 1 DP (Display Port), 1 HDMI, 1 DVI-D
10. HD Audio 7.1 channel connector by Realtek ALC1150, support SPDIF-Out

Links & Resources

- ▶ [Tested Memory List](#)
- ▶ [Update Your BIOS](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)
- ▶ [OS Compatibility](#)

Specifications

Product SKUs

MBD-C7Z270-CG-L -O	■ C7Z270-CG-L
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Physical Stats

Form Factor	■ ATX
Dimensions	■ 12" x 9.6", (30.5 cm x 24.4 cm)

Processor/Cache

CPU	■ Intel® 7th/6th Gen Core i7/i5/i3 series processors; CPU TDP support up to 120W TDP
	■ Single Socket H4 (LGA 1151)

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 2800MHz(OC) non-ECC DDR4 SDRAM 72-bit, 288-pin (UDIMM) gold-plated DIMMs
	■ Support overclocking up to 2800MHz*
	* Please check the operation manual for supported components
DIMM Sizes	■ 16GB, 8GB, 4GB
Memory Voltage	■ 1.2V

On-Board Devices

Chipset	■ Intel® Z270 Express Chipset
SATA	■ SATA3 via PCH w/ RAID 0, 1, 5, 10
Network Controllers	■ Intel® i219V Controller
	■ Supports 10BASE-T, 100BASE-TX, and 1000BASE-T, RJ45 output
Audio	■ RealTek ALC1150 High Definition Audio

Input / Output

Serial ATA	■ 6 SATA3 (6Gbps) ports
LAN	■ 1 RJ45 Gigabit Ethernet LAN port
USB	■ 6 USB 3.0 ports (4 rear, 2 via headers)
	■ 6 USB 2.0 ports (2 rear, 4 via headers)
	■ 2 USB 3.1 ports (1 Type A, 1 Type C)
Audio	■ 7.1 HD Jacks
	■ Support SPDIF-Out (Rear)
Display	■ 1 DP (Display Port), 1 HDMI, 1 DVI-D
	Up to DP 1.2, up to HDMI 1.4b

TPM 1.2 TPM Header

Expansion Slots

PCI-Express	■ 2 PCI-E 3.0 x16 slots (16/NA or 8/8)
	■ 1 PCI-E 3.0 x4 slot
	■ 3 PCI-E 3.0 x1 slots
	■ 2 PCIe 3.0 x4 M.2 (support 22110, RAID 0, 1 support)

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
	■ Internal/External modem ring-on

PC Health Monitoring

Voltage	■ +12V, +3.3V, +5V, 1.05 (PCH), 1.2V (VDIMM), 3.3V standby, 5+2 Phase-switching voltage regulator, Chassis intrusion header, HT, Monitors CPU voltages, Supports system management utility, VBAT
Thermal Control	■ 5x 4-pin fan headers (up to 5 fans), 5 fans with tachometer status monitoring, Fan speed control, Low noise fan speed control, Pulse Width Modulated (PWM) fan connectors, PWM fan speed control, Status monitoring for on/off control, Status monitoring for speed control
Other Features	■ ACPI power management, ATX Power connector, Chassis intrusion detection, Chassis intrusion header, CPU thermal trip support for processor protection, M.2 NGFF connector, RoHS, Voltage and Frequency Overclocking

Parts List

Parts List (Retail Package)

	Part Number	Qty	Description
Motherboard	MBD-C7Z270-CG-L -O	1	C7Z270-CG-L Motherboard

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