



Desktop Overclock

Key Features

- 14th (up to 8+16 cores)/13th (up to 8+16 cores)/12th (up to 8+8 cores) Gen Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron® Processors, LGA 1700 (Intel® V Socket), TDP up to 150W Intel® Z790
Up to 192GB Unbuffered non-ECC UDIMM 4 DDR5 4400MT/s, 5000+MT/s (OC)
2 PCIe 5.0 x16 Slots (16/NA or 8/8) with Armor protection (only available for discrete graphics or storage cards) 2 PCIe 3.0 x1 Slot M.2 Interface: 1 PCIe 4.0 x4, 2 PCIe 3.0 x4, RAID 0,1,5 M.2 Form Factor: 2260/2280/22110 M.2 Key: M-Key
Single LAN with Intel® single Ethernet PHY i219V Single LAN with Marvell AQC113

Optimized Servers

SYS-531AD-I (/de/products/system/workstation/tower/sys-531ad-i)

Specifications

Table with 2 columns: Specification Name and Value. Rows include Product SKUs (MBD-C9Z790-CG), Physical Stats (Form Factor: ATX, Dimension: 12" x 9.6"), Processor (CPU: 14th/13th/12th Gen Intel® Core™ i9/i7/i5/i3, Pentium® and Celeron®), System Memory (Memory Capacity: 4 DIMM slots, up to 192GB), On-Board Devices (Chipset: Intel® Z790, SATA: Intel® Z790 Express controller), Input / Output (SATA: 6 SATA 3 port(s), USB: 6 USB 2 port(s)), and TPM (1 TPM Header).

Table with 2 columns: Specification Name and Value. Rows include Expansion Slots (PCIe: 2 PCIe 5.0 x16 slots, M.2: 1 PCIe 4.0 x4, RAID 0, 1, 5; 2 PCIe 3.0 x4, RAID 0, 1, 5), System BIOS (BIOS Type: 256MB SPI Flash with AMI BIOS), Management Software (SuperDoctor® 5), Power Configurations (ACPI Power Management), PC Health Monitoring (Voltage: VBAT, System temperature, PCH temperature), and Operating Environment (Operating Temperature Range: 0°C - 50°C).

## Parts List

### Standard Parts (Retail Package)

#### BACK PLATE(I/O Shield)

|             |   |
|-------------|---|
| Part Number | MCP-260-00161-0N  |
| Qty         | 1   |
| Description | STD I/O Shield for C9Z590-CG(W) with EMI & black Mylar,RoHS |

|             |           |
|-------------|-----------|
| Driver CD   | -         |
| Part Number | -         |
| Qty         | 1         |
| Description | Driver CD |

|             |   |
|-------------|---|
| M.2 SCREW   | FST-SCRW-0067L                            |
| Part Number | FST-SCRW-0067L                            |
| Qty         | 2   |
| Description | SCREW, M3.0XP0.5, L=4.5MM, PBF,RoHS/REACH |

|              |  |
|--------------|--|
| M.2 STANDOFF | FST-SCRW-0116L   |
| Part Number  | FST-SCRW-0116L   |
| Qty          | 2  |
| Description  | STANDOFF,H 5.0mm, M3xL4(male) / M3xDeep3.5 (female),Hex,RoHS |

|                       |   |
|-----------------------|---|
| Quick Reference Guide | MNL-2547-QRG                            |
| Part Number           | MNL-2547-QRG                            |
| Qty                   | 1                                       |
| Description           | C9Z790-CG(W) Quick Reference Guide,RoHS |

|             |   |
|-------------|---|
| S-Connector | 61Y-72-08GB20                                       |
| Part Number | 61Y-72-08GB20                                       |
| Qty         | 1   |
| Description | S-connector (Front Control Panel Connector/Adapter) |

|             |                 |                        |
|-------------|-----------------|------------------------|
| SATA Cables | CBL-SAST-1001-2 | CBL-SAST-1000-2        |
| Part Number | CBL-SAST-1001-2 | CBL-SAST-1000-2        |
| Qty         | 2               | 2                      |
| Description | SATA Cables     | Right-Angle SATA Cable |

[Global SKU \(/de/products/SMC\\_global\\_skus\)](/de/products/SMC_global_skus)