

# BAZAR - ASRock MB Sc LGA1700 Z790 TAICHI CARRARA, Intel Z790, 4xDDR5, 1xHDMI, WI-FI, E-ATX - Po opravě (Komplet)

DDR5

**cena vč DPH:** **11376 Kč**

cena bez DPH: 9402 Kč

**Kód zboží (ID):** 5629349

**PN:** Z790-TAICHI-CARRARA

**Záruka:** 6 měsíců



## Z790 Taichi Carrara

- Supports 13th Gen & 12th Gen Intel Core™ Processors
- 24+1+2 Phase Power Design, SPS for VCore+GT
- 4 x DDR5 DIMMs, supports up to 7000+(OC)
- 2 PCIe 5.0 x16, 1 PCIe 4.0 x16, 1 M.2 Key-E for WiFi
- Graphics Output Options: 2 USB4 Type-C, 1 HDMI
- 5.1 CH HD Audio with Content Protection (Realtek ALC4082 Audio Codec), ESS SABRE9218 DAC, WIMA Audio Caps, Nahimic Audio
- 1 Blazing M.2 (PCIe Gen5x4), 4 Hyper M.2 (PCIe Gen4x4), 8 SATA3
- 1 USB 3.2 Gen2x2 Type-C (Front), 2 USB 3.2 Gen2 Type-A (Rear), 10 USB 3.2 Gen1 (6 Rear, 4 Front), 6 USB 2.0 (2 Rear, 4 Front)
- Killer 2.5G LAN, Intel 1G LAN
- Killer 802.11ax Wi-Fi 6E + Bluetooth

## Unique Feature

Superb Productivity - PCIe Gen5 (Graphics, M.2) - 12CM Carrara Edition Cooling FAN  
- Dual Channel DDR5 - USB4 Thunderbolt™ 4 Type-C Ports (40 Gb/s) Rock-Solid  
Durability - 24+1+2 Power Phase, 105A SPS for VCore+GT with Enlarged Heatsink  
Armor - Flexible Integrated I/O Shield - Nichicon 12K Black Caps (100% Japan made  
high quality conductive polymer capacitors) Ultrafast Connectivity - Killer 2.5G LAN,  
Killer 802.11ax Wi-Fi 6E Module - Killer DoubleShot™ Pro - Front Panel Type-C 60W  
Fast Charging (20V/3A) - ASRock Lightning Gaming Ports EZ Update - ASRock Auto  
Driver Installer

## CPU

- Supports 13th Gen & 12th Gen Intel Core™ Processors (LGA1700) - Supports Intel Hybrid Technology - Supports Intel Turbo Boost Max 3.0 Technology - Supports Intel Thermal Velocity Boost (TVB) - Supports Intel Adaptive Boost Technology (ABT) - Supports ASRock Hyper BCLK Engine

## Chipset

- Intel Z790

## Memory

- Dual Channel DDR5 Memory Technology - 4 x DDR5 DIMM Slots - Supports DDR5 non-ECC, un-buffered memory up to 7000+(OC)\* - Max. capacity of system memory: 128GB - Supports Intel Extreme Memory Profile (XMP) 3.0

\*1DPC 1R Up to 7000+ MHz (OC), 4800 MHz Natively. 1DPC 2R Up to 6000+ MHz (OC), 4400 MHz Natively. 2DPC 1R Up to 6000+ MHz (OC), 4000 MHz Natively. 2DPC 2R Up to 4800+ MHz (OC), 3600 MHz Natively.

## BIOS

- 256Mb AMI UEFI Legal BIOS with GUI support

## Graphics

- Intel Xe Graphics Architecture (Gen 12) - 1 x HDMI 2.1 TMDS Compatible, supports HDCP 2.3 and max. resolution up to 4K 60Hz - 2 x Intel Thunderbolt™ 4, supports HDCP 2.3 and max. resolution up to 8K 60Hz\*\*

\*Intel UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated.

\*\*Supports two 4K displays or one 8K display\* Only the CPU's embedded graphics can be displayed through Thunderbolt™ ports. If you want to display to a Thunderbolt™ monitor, please use CPU models with embedded graphics. Thunderbolt™ graphics output may not be compatible with certain Type-C monitors. Please use graphics card outputs instead.

## Audio

- 5.1 CH HD Audio with Content Protection (Realtek ALC4082 Audio Codec) - WIMA Audio Capacitors (For Front Outputs) - ESS SABRE9218 DAC for Front Panel Audio (130dB SNR) - Individual PCB Layers for R/L Audio Channel - Impedance Sensing on Rear Out port - Nahimic Audio

## LAN

1 x 2.5 Gigabit LAN 10/100/1000/2500 Mb/s (Killer E3100G) - Supports Killer LAN Software - Supports Killer DoubleShot™ Pro 1 x Gigabit LAN 10/100/1000 Mb/s (Intel I219V)

## Wireless LAN

- 802.11ax Wi-Fi 6E Module - Supports IEEE 802.11a/b/g/n/ac/ax - Supports Dual-Band 2x2 160MHz with extended 6GHz band support\*

- 2 antennas to support 2 (Transmit) x 2 (Receive) diversity technology - Supports Bluetooth + High speed class II - Supports MU-MIMO - Supports Killer LAN Software - Supports Killer DoubleShot™ Pro

\*Wi-Fi 6E (6GHz band) will be supported by Microsoft Windows 11. The availability will depend on the different regulation status of each country and region. It will be activated (for supported countries) through Windows Update and software updates once available. A 6GHz compatible router is required for 6E functionality.

## Slots

CPU: - 2 x PCIe 5.0 x16 Slots (PCIE1 and PCIE2), support x16 or x8/x8 modes\*

Chipset: - 1 x PCIe 4.0 x16 Slot (PCIE3), supports x4 mode\* - 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module and Intel CNVio/CNVio2 (Integrated WiFi/BT)

- Supports AMD CrossFire™ - 15µ Gold Contact in VGA PCIe Slots (PCIE1 and PCIE2)

\* If M2\_1 is occupied, PCIE1 will downgrade to x8 mode. If PCIE2 is occupied, M2\_1 will be disabled. If PCIE3 is occupied, SATA3\_0~4 will be disabled. Supports NVMe SSD as boot disks

## Storage

CPU: - 1 x Blazing M.2 Socket (M2\_1, Key M), supports type 2280 PCIe Gen5x4 (128 Gb/s) mode\* - 1 x Hyper M.2 Socket (M2\_2, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode\* Chipset: - 1 x Hyper M.2 Socket (M2\_3, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode\* - 1 x Hyper M.2 Socket (M2\_4, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode\* - 1 x Hyper M.2 Socket (M2\_5, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode\* - 8 x SATA3 6.0 Gb/s Connectors\*\*

\*Supports Intel Volume Management Device (VMD) Supports NVMe SSD as boot disks If M2\_1 is occupied, PCIE1 will downgrade to x8 mode. If PCIE2 is occupied, M2\_1 will be disabled. Either M2\_1 or M2\_2 can be used at a time.

\*\*If PCIE3 is occupied, SATA3\_0~4 will be disabled.

## RAID

- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices - Supports RAID 0, RAID 1 and RAID 5 for M.2 NVMe storage devices

## USB

- 2 x USB4 Thunderbolt™ 4 Type-C (Rear) - 1 x USB 3.2 Gen2x2 Type-C (Front) - 2 x USB 3.2 Gen2 Type-A (Rear) - 10 x USB 3.2 Gen1 (6 Rear, 4 Front) - 6 x USB 2.0 (2 Rear, 4 Front)

\*All USB ports support ESD Protection

## Connector

- 1 x SPI TPM Header - 1 x Power LED and Speaker Header - 1 x RGB LED Header\* - 3 x Addressable LED Headers\*\* - 1 x CPU Fan Connector (4-pin)\*\*\* - 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)\*\*\*\* - 6 x Chassis/Water Pump Fan Connectors (4-pin) (Smart Fan Speed Control)\*\*\*\*\* - 1 x 24 pin ATX Power Connector (Hi-Density Power Connector) - 2 x 8 pin 12V Power Connectors (Hi-Density Power Connector) - 1 x 12V 6 pin Power Connector for Fast Charging (Hi-Density Power Connector) - 1 x Front Panel Audio Connector (15µ Gold Audio Connector) - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) - 2 x USB 3.2 Gen1 Headers (Support 4 USB 3.2 Gen1 ports) - 1 x Front Panel Type C USB 3.2 Gen2x2 Header (20 Gb/s)\*\*\*\*\* - 1 x Clear CMOS Button - 1 x Dr. Debug with LED - 1 x Power Button with LED - 1 x Reset Button with LED

\*Supports in total up to 12V/3A, 36W LED Strip

\*\*Support in total up to 5V/3A, 15W LED Strip

\*\*\*CPU\_FAN1 supports the fan power up to 1A (12W).

\*\*\*\*CPU\_FAN2/WP\_3A supports the fan power up to 3A (36W).

\*\*\*\*\*CHA\_FAN1~6/WP support the fan power up to 2A (24W). CPU\_FAN2/WP\_3A and CHA\_FAN1~6/WP can auto detect if 3-pin or 4-pin fan is in use.

\*\*\*\*\*Supports USB PD 3.0 up to 20V@3A (60W) fast charging when you install PSU's Power Cable to the 12V 6 pin Power Connector. If the 12V 6 pin Power Connector is not plugged, this header supports USB PD 3.0 up to 9V@3A (27W) fast charging.

## Rear Panel I/O

- 2 x Antenna Ports - 1 x HDMI Port - 1 x Optical SPDIF Out Port - 2 x USB4 Thunderbolt™ 4 Type-C Ports (40 Gb/s for USB4 protocol; 40Gb/s for Thunderbolt™ protocol)\* - 2 x USB 3.2 Gen2 Type-A Port (10 Gb/s) - 6 x USB 3.2 Gen1 Ports (USB32\_12 are Lightning Gaming Ports. USB32\_34 support Ultra USB Power.) - 2 x USB 2.0 Ports - 2 x RJ-45 LAN Ports - 1 x Line Out Jack (Gold Audio Jack) - 1 x Microphone Input Jack (Gold Audio Jack)

\*Supports USB PD 3.0 up to 9V@3A (27W) / 5V@3A (15W) charging

## Software and UEFI

Software - ASRock Motherboard Utility (A-Tuning) - Killer Control Center - ASRock Polychrome SYNC\* UEFI - ASRock EZ Mode - ASRock Full HD UEFI - ASRock My Favorites in UEFI - ASRock Auto Driver Installer - ASRock Instant Flash - ASRock Easy RAID Installer

\*These utilities can be downloaded from ASRock Live Update & APP Shop.

## Accessories

- 1 x User Manual - 4 x SATA Data Cables - 1 x Wireless Dongle USB Bracket - 1 x 12CM Carrara Edition Cooling FAN - 1 x ASRock WiFi 2.4/5/6 GHz Antenna - 4 x Screws for M.2 Sockets

## Form Factor

- EATX Form Factor: 12.0-in x 10.5-in, 30.5 cm x 26.7 cm - 8 Layer PCB

## OS

- Microsoft Windows 10 64-bit / 11 64-bit

\*Windows 10 only supports version 21H2 or later

## Certifications

- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required) - CEC Tier II ready

## Z790 Taichi Carrara

<ul>

<li>Supports 13th Gen & 12th Gen Intel Core™ Processors</li>

<li>24+1+2 Phase Power Design, SPS for VCore+GT</li>

<li>4 x DDR5 DIMMs, supports up to 7000+(OC)</li>

<li>2 PCIe 5.0 x16, 1 PCIe 4.0 x16, 1 M.2 Key-E for WiFi</li>

<li>Graphics Output Options: 2 USB4 Type-C, 1 HDMI</li>

<li>5.1 CH HD Audio with Content Protection (Realtek ALC4082 Audio Codec), ESS SABRE9218 DAC, WIMA Audio Caps, Nahimic Audio</li>

<li>1 Blazing M.2 (PCIe Gen5x4), 4 Hyper M.2 (PCIe Gen4x4), 8 SATA3</li>

<li>1 USB 3.2 Gen2x2 Type-C (Front), 2 USB 3.2 Gen2 Type-A (Rear), 10 USB 3.2 Gen1 (6 Rear, 4 Front), 6 USB 2.0 (2 Rear, 4 Front)</li>

<li>Killer 2.5G LAN, Intel 1G LAN</li>

</li>Killer 802.11ax Wi-Fi 6E + Bluetooth</li>

</ul>

### <h3>Unique Feature</h3>

<p>Superb Productivity

- PCIe Gen5 (Graphics, M.2)
- 12CM Carrara Edition Cooling FAN
- Dual Channel DDR5
- USB4 Thunderbolt™ 4 Type-C Ports (40 Gb/s)

Rock-Solid Durability

- 24+1+2 Power Phase, 105A SPS for VCore+GT with Enlarged Heatsink Armor
- Flexible Integrated I/O Shield
- Nichicon 12K Black Caps (100% Japan made high quality conductive polymer capacitors)

Ultrafast Connectivity

- Killer 2.5G LAN, Killer

802.11ax Wi-Fi 6E Module

- Killer DoubleShot™ Pro
- Front Panel Type-C 60W Fast Charging (20V/3A)
- ASRock Lightning Gaming Ports

EZ Update

- ASRock Auto Driver Installer</p>

### <h3>CPU</h3>

<p>- Supports 13th Gen & 12th Gen Intel Core™ Processors (LGA1700)

- Supports Intel Hybrid Technology
- Supports Intel Turbo Boost Max 3.0 Technology
- Supports Intel Thermal Velocity Boost (TVB)
- Supports Intel Adaptive Boost Technology (ABT)
- Supports ASRock Hyper BCLK Engine</p>

### <h3>Chipset</h3>

<p>- Intel Z790</p>

### <h3>Memory</h3>

<p>- Dual Channel DDR5 Memory Technology

- 4 x DDR5 DIMM Slots
- Supports DDR5 non-ECC, un-buffered memory up to 7000+(OC)\*
- Max. capacity of system memory: 128GB
- Supports Intel Extreme Memory Profile (XMP) 3.0</p>

<p>

\*1DPC 1R Up to 7000+ MHz (OC), 4800 MHz Natively.

1DPC 2R Up to 6000+ MHz (OC), 4400 MHz Natively.

2DPC 1R Up to 6000+ MHz (OC), 4000 MHz Natively.

2DPC 2R Up to 4800+ MHz (OC), 3600 MHz Natively.</p>

### <h3>BIOS</h3>

<p>- 256Mb AMI UEFI Legal BIOS with GUI support</p>

### <h3>Graphics</h3>

<p>- Intel Xe Graphics Architecture (Gen 12)

- 1 x HDMI 2.1 TMDS Compatible, supports HDCP 2.3 and max. resolution up to 4K 60Hz

- 2 x Intel Thunderbolt™ 4, supports HDCP 2.3 and max. resolution up to 8K 60Hz\*\*</p>

<p>\*Intel UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated.</p>

<p>\*\*Supports two 4K displays or one 8K display\* Only the CPU's embedded graphics can be displayed through Thunderbolt™ ports. If you want to display to a Thunderbolt™ monitor, please use CPU models with embedded graphics. Thunderbolt™ graphics output may not be compatible with certain Type-C monitors. Please use graphics card outputs instead.</p>

### <h3>Audio</h3>

<p>- 5.1 CH HD Audio with Content Protection (Realtek ALC4082 Audio Codec)  
- WIMA Audio Capacitors (For Front Outputs)  
- ESS SABRE9218 DAC for Front Panel Audio (130dB SNR)  
- Individual PCB Layers for R/L Audio Channel  
- Impedance Sensing on Rear Out port  
- Nahimic Audio</p>

### <h3>LAN</h3>

<p>1 x 2.5 Gigabit LAN 10/100/1000/2500 Mb/s (Killer E3100G)  
- Supports Killer LAN Software  
- Supports Killer DoubleShot™ Pro 1 x Gigabit LAN 10/100/1000 Mb/s (Intel I219V)</p>

### <h3>Wireless LAN</h3>

<p>- 802.11ax Wi-Fi 6E Module  
- Supports IEEE 802.11a/b/g/n/ac/ax  
- Supports Dual-Band 2x2 160MHz with extended 6GHz band support\*</p>  
<p>- 2 antennas to support 2 (Transmit) x 2 (Receive) diversity technology  
- Supports Bluetooth + High speed class II  
- Supports MU-MIMO  
- Supports Killer LAN Software  
- Supports Killer DoubleShot™ Pro</p>

<p>\*Wi-Fi 6E (6GHz band) will be supported by Microsoft Windows 11. The availability will depend on the different regulation status of each country and region. It will be activated (for supported countries) through Windows Update and software updates once available.

A 6GHz compatible router is required for 6E functionality.</p>

### <h3>Slots</h3>

<p>CPU:

- 2 x PCIe 5.0 x16 Slots (PCIE1 and PCIE2), support x16 or x8/x8 modes\*

Chipset:

- 1 x PCIe 4.0 x16 Slot (PCIE3), supports x4 mode\*

- 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module and Intel CNVio/CNVio2 (Integrated WiFi/BT)</p>

<p>- Supports AMD CrossFire™

- 15μ Gold Contact in VGA PCIe Slots (PCIE1 and PCIE2)</p>

<p>\* If M2\_1 is occupied, PCIE1 will downgrade to x8 mode.

If PCIE2 is occupied, M2\_1 will be disabled.

If PCIE3 is occupied, SATA3\_0~4 will be disabled.

Supports NVMe SSD as boot disks</p>

### <h3>Storage</h3>

<p>CPU:

- 1 x Blazing M.2 Socket (M2\_1, Key M), supports type 2280 PCIe Gen5x4 (128

Gb/s) mode\*

- 1 x Hyper M.2 Socket (M2\_2, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode\*

Chipset:

- 1 x Hyper M.2 Socket (M2\_3, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode\*

- 1 x Hyper M.2 Socket (M2\_4, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode\*

- 1 x Hyper M.2 Socket (M2\_5, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode\*

- 8 x SATA3 6.0 Gb/s Connectors\*\*</p>

<p>\*Supports Intel Volume Management Device (VMD)

Supports NVMe SSD as boot disks

If M2\_1 is occupied, PCIE1 will downgrade to x8 mode.

If PCIE2 is occupied, M2\_1 will be disabled.

Either M2\_1 or M2\_2 can be used at a time.</p>

<p>\*\*If PCIE3 is occupied, SATA3\_0~4 will be disabled.</p>

<h3>RAID</h3>

<p>- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for SATA storage devices

- Supports RAID 0, RAID 1 and RAID 5 for M.2 NVMe storage devices</p>

<h3>USB</h3>

<p>- 2 x USB4 Thunderbolt™ 4 Type-C (Rear)

- 1 x USB 3.2 Gen2x2 Type-C (Front)

- 2 x USB 3.2 Gen2 Type-A (Rear)

- 10 x USB 3.2 Gen1 (6 Rear, 4 Front)

- 6 x USB 2.0 (2 Rear, 4 Front)</p>

<p>\*All USB ports support ESD Protection</p>

<h3>Connector</h3>

<p>- 1 x SPI TPM Header

- 1 x Power LED and Speaker Header

- 1 x RGB LED Header\*

- 3 x Addressable LED Headers\*\*

- 1 x CPU Fan Connector (4-pin)\*\*\*

- 1 x CPU/Water Pump Fan Connector (4-pin) (Smart Fan Speed Control)\*\*\*\*

- 6 x Chassis/Water Pump Fan Connectors (4-pin) (Smart Fan Speed Control)\*\*\*\*\*

- 1 x 24 pin ATX Power Connector (Hi-Density Power Connector)

- 2 x 8 pin 12V Power Connectors (Hi-Density Power Connector)

- 1 x 12V 6 pin Power Connector for Fast Charging (Hi-Density Power Connector)

- 1 x Front Panel Audio Connector (15μ Gold Audio Connector)

- 2 x USB 2.0 Headers (Support 4 USB 2.0 ports)

- 2 x USB 3.2 Gen1 Headers (Support 4 USB 3.2 Gen1 ports)

- 1 x Front Panel Type C USB 3.2 Gen2x2 Header (20 Gb/s)\*\*\*\*\*

- 1 x Clear CMOS Button

- 1 x Dr. Debug with LED

- 1 x Power Button with LED

- 1 x Reset Button with LED</p>

<p>\*Supports in total up to 12V/3A, 36W LED Strip</p>

<p>\*\*Support in total up to 5V/3A, 15W LED Strip</p>

<p>\*\*\*CPU\_FAN1 supports the fan power up to 1A (12W).</p>



<p>\*\*\*\*CPU\_FAN2/WP\_3A supports the fan power up to 3A (36W).</p>

<p>\*\*\*\*\*CHA\_FAN1~6/WP support the fan power up to 2A (24W).

CPU\_FAN2/WP\_3A and CHA\_FAN1~6/WP can auto detect if 3-pin or 4-pin fan is in use.</p>

<p>\*\*\*\*\*Supports USB PD 3.0 up to <a href="mailto:20V@3A">20V@3A</a> (60W) fast charging when you install PSU's Power Cable to the 12V 6 pin Power Connector.If the 12V 6 pin Power Connector is not plugged, this header supports USB PD 3.0 up to <a href="mailto:9V@3A">9V@3A</a> (27W) fast charging.</p>

### <h3>Rear Panel I/O</h3>

<p>- 2 x Antenna Ports

- 1 x HDMI Port

- 1 x Optical SPDIF Out Port

- 2 x USB4 Thunderbolt™ 4 Type-C Ports (40 Gb/s for USB4 protocol; 40Gb/s for Thunderbolt™ protocol)\*

- 2 x USB 3.2 Gen2 Type-A Port (10 Gb/s)

- 6 x USB 3.2 Gen1 Ports (USB32\_12 are Lightning Gaming Ports. USB32\_34 support Ultra USB Power.)

- 2 x USB 2.0 Ports

- 2 x RJ-45 LAN Ports

- 1 x Line Out Jack (Gold Audio Jack)

- 1 x Microphone Input Jack (Gold Audio Jack)</p>

<p>\*Supports USB PD 3.0 up to <a href="mailto:9V@3A">9V@3A</a> (27W) / <a href="mailto:5V@3A">5V@3A</a> (15W) charging</p>

### <h3>Software and UEFI</h3>

<p>Software

- ASRock Motherboard Utility (A-Tuning)

- Killer Control Center

- ASRock Polychrome SYNC\*

UEFI

- ASRock EZ Mode

- ASRock Full HD UEFI

- ASRock My Favorites in UEFI

- ASRock Auto Driver Installer

- ASRock Instant Flash

- ASRock Easy RAID Installer</p>

<p>\*These utilities can be downloaded from ASRock Live Update & amp; APP Shop.</p>

### <h3>Accessories</h3>

<p>- 1 x User Manual

- 4 x SATA Data Cables

- 1 x Wireless Dongle USB Bracket

- 1 x 12CM Carrara Edition Cooling FAN

- 1 x ASRock WiFi 2.4/5/6 GHz Antenna

- 4 x Screws for M.2 Sockets</p>

### <h3>Form Factor</h3>

<p>- EATX Form Factor: 12.0-in x 10.5-in, 30.5 cm x 26.7 cm

- 8 Layer PCB</p>

### <h3>OS</h3>

<p>- Microsoft Windows 10 64-bit / 11 64-bit</p>

<p>\*Windows 10 only supports version 21H2 or later</p>

### <h3>Certifications</h3>

<p>- FCC, CE

- ErP/EuP ready (ErP/EuP ready power supply is required)

- CEC Tier II ready</p>