

ASRock B650E Taichi Lite/ AMD B650 / AM5 / 4x DDR5 DIMM / 3x M.2 / HDMI / USB-C / WiFi 6E / EATX

cena vč DPH: **8576 Kč**

cena bez DPH: 7088 Kč

Kód zboží (ID): 5732096

PN: B650E-TAICHI-LITE

Záruka: 36 měsíců



ASRock B650E Taichi Lite

- Supports AMD Socket AM5 Ryzen™ 7000 Series Processors
- 24+2+1 Power Phase, 105A SPS for VCore+GT with Enlarged Heatsink Armor
- 8 Layer Server-Grade Low-Loss PCB
- Supports DDR5 6600MHz (OC)
- 1 PCIe 5.0 x16, 1 PCIe 4.0 x16
- Graphics Outputs Options : HDMI, USB4 Type-C
- Realtek ALC4082 5.1 CH HD Audio Codec, ESS SABRE 9218 DAC, WIMA Audio Caps Nahimic Audio
- 4 SATA3, 1 Blazing M.2 (PCIe Gen5 x4) 2 Hyper M.2 (PCIe Gen4 x4)
- 1 USB4 Type-C 1 Front USB 3.2 Gen2x2 Type-C 3 Rear USB 3.2 Gen2 Type A 10 USB 3.2 Gen1 (8 Rear, 2 Front) 4 USB 2.0 (Front)

CPU

- Supports AMD Socket AM5 Ryzen™ 7000 Series Processors - Supports ASRock Hyper BCLK Engine

Chipset

- AMD B650

Memory

- Dual Channel DDR5 Memory Technology - 4 x DDR5 DIMM Slots - Supports DDR5 non-ECC, un-buffered memory up to 6600+(OC)* - Max. capacity of system memory: 128GB - Supports Extreme Memory Profile (XMP) and EXTended Profiles for Overclocking (EXPO) memory modules * Please refer to Memory Support List on ASRock's website for more information. (<http://www.asrock.com/>)

Expansion Slot

CPU: - 1 x PCIe 5.0 x16 Slot (PCIE1), supports x16 mode* Chipset: - 1 x PCIe 4.0 x16 Slot (PCIE2), supports x4 mode* - 1 x Vertical M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module * If M2_3 is occupied, PCIE2 will be disabled. * Supports NVMe SSD as boot disks - 15μ Gold Contact in VGA PCIe Slot (PCIE1)

Graphics

Integrated AMD RDNA™ 2 graphics (Actual support may vary by CPU) - 1 x HDMI 2.1 TMDS/FRL 8G Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 120Hz - 1 x USB4, supports HDCP 2.3 and max. resolution up to 8K 60Hz* * Only the CPU's embedded graphics can be displayed through USB4 ports. If you want to display to a Type-C monitor, please use CPU models with embedded graphics. * USB4 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 + Wireless LAN

2.5 Gigabit LAN 10/100/1000/2500 Mb/s - Killer E3100G - Supports Killer LAN Software - Supports Killer DoubleShot™ Pro - 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 * 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. - 2 antennas to support 2 (Transmit) x 2 (Receive) diversity technology - Supports Bluetooth 5.3 + High speed class II - Supports MU-MIMO - Supports Killer LAN Software - Supports Killer DoubleShot™ Pro

USB

- 1 x USB4 Type-C (Rear) - 1 x USB 3.2 Gen2x2 Type-C (Front) - 3 x USB 3.2 Gen2 Type-A (Rear) - 10 x USB 3.2 Gen1 (8 Rear, 2 Front) - 4 x USB 2.0 (Front) * All USB ports support ESD Protection

Rear Panel I/O

- 2 x Antenna Ports - 1 x HDMI Port - 1 x Optical SPDIF Out Port - 1 x USB4 Type-C Port (40 Gb/s)* - 3 x USB 3.2 Gen2 Type-A Ports (10 Gb/s) (ReDriver) (USB32_12 are

Lightning Gaming Ports. USB32_11 supports Ultra USB Power.) - 8 x USB 3.2 Gen1 Ports (ASMedia ASM1074 hub) - 1 x RJ-45 LAN Port - 1 x Clear CMOS Button - 1 x BIOS Flashback Button - 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

Storage

CPU: - 1 x Blazing M.2 Socket (M2_1, Key M), supports type 2230/2242/2260/2280/22110 PCIe Gen5x4 (128 Gb/s) mode* Chipset: - 1 x Hyper M.2 Socket (M2_2, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode* - 1 x Hyper M.2 Socket (M2_3, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode* ASMedia ASM1061: - 4 x SATA3 6.0 Gb/s Connectors * Supports NVMe SSD as boot disks * If M2_3 is occupied, PCIE2 will be disabled Supports RAID 0, RAID 1 and RAID 10 for M.2 NVMe storage devices* * Requires additional M.2 NVMe expansion cards to support RAID 10

Internal I/O

- 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 Front Panel Audio Connector (15µ Gold Audio Connector) - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) - 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports) - 1 x Front Panel Type C USB 3.2 Gen2x2 Header (20 Gb/s) (ReDriver) - 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

BIOS Feature

- 256Mb AMI UEFI Legal BIOS with GUI support

Software and UEFI

Software - ASRock Motherboard Utility (A-Tuning) - Killer Control Center - ASRock Polychrome SYNC * These utilities can be downloaded from ASRock Live Update & APP Shop. UEFI - ASRock Full HD UEFI - ASRock Auto Driver Installer - ASRock Instant Flash

OS

Microsoft Windows 10 64-bit / 11 64-bit

Certifications

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

Accessories

- 1 x User Manual - 4 x SATA Data Cables - 1 x Wireless Dongle USB Bracket - 1 x ASRock WiFi 2.4/5/6 GHz Antenna - 3 x Screws for M.2 Sockets - 1 x Standoff for M.2 Socket

Unique Feature

Superb Productivity - PCIe Gen5 (Graphics, M.2) - Dual Channel DDR5 - USB4 Type-C Port (40 Gb/s) Rock-Solid Durability - Server-Grade Low-Loss PCB - 24+2+1 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 Gaming - Killer 2.5G LAN, Killer 802.11ax Wi-Fi 6E Module - Killer DoubleShot™ Pro - ASRock Lightning Gaming Ports EZ Update - BIOS Flashback Button - ASRock Auto Driver Installer

Form Factor

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

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<div class="grid-wrapper">
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<div class="col" style="min-width:75%;">
<ul>
<li>Supports AMD Socket AM5 Ryzen™ 7000 Series Processors</li>
<li>24+2+1 Power Phase, 105A SPS for VCore+GT with Enlarged Heatsink
Armor</li>
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<p>CPU</p>

<p>- Supports AMD Socket AM5 Ryzen™ 7000 Series Processors

- Supports ASRock Hyper BCLK Engine</p>

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<p>Chipset</p>

<p>- AMD B650</p>

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<p>Memory</p>

<p>- Dual Channel DDR5 Memory Technology

- 4 x DDR5 DIMM Slots

- Supports DDR5 non-ECC, un-buffered memory up to 6600+(OC)*

- Max. capacity of system memory: 128GB

- Supports Extreme Memory Profile (XMP) and EXTENDED Profiles for Overclocking (EXPO) memory modules

* Please refer to Memory Support List on ASRock's website for more information.

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<p>Expansion Slot</p>

<p>CPU:

- 1 x PCIe 5.0 x16 Slot (PCIE1), supports x16 mode*

Chipset:

- 1 x PCIe 4.0 x16 Slot (PCIE2), supports x4 mode*

- 1 x Vertical M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module

* If M2_3 is occupied, PCIE2 will be disabled.

* Supports NVMe SSD as boot disks
- 15μ Gold Contact in VGA PCIe Slot (PCIe1</p>

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<p>Graphics</p>

<p>Integrated AMD RDNA™ 2 graphics (Actual support may vary by CPU)

- 1 x HDMI 2.1 TMDS/FRL 8G Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 120Hz

- 1 x USB4, supports HDCP 2.3 and max. resolution up to 8K 60Hz*

* Only the CPU's embedded graphics can be displayed through USB4 ports.

If you want to display to a Type-C monitor, please use CPU models with embedded graphics.

* USB4 graphics output may not be compatible with certain Type-C monitors.

Please use graphics card outputs instead</p>

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<p>Audio</p>

<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>

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<p>LAN + Wireless LAN</p>

<p>2.5 Gigabit LAN 10/100/1000/2500 Mb/s

- Killer E3100G

- Supports Killer LAN Software

- Supports Killer DoubleShot™ Pro

- 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
- * 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.

- 2 antennas to support 2 (Transmit) x 2 (Receive) diversity technology
- Supports Bluetooth 5.3 + High speed class II
- Supports MU-MIMO
- Supports Killer LAN Software
- Supports Killer DoubleShot™ Pro

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<p>USB</p>

<p>- 1 x USB4 Type-C (Rear)

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

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

- 10 x USB 3.2 Gen1 (8 Rear, 2 Front)

- 4 x USB 2.0 (Front)

* All USB ports support ESD Protection</p>

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<p>Rear Panel I/O</p>

<p>- 2 x Antenna Ports

- 1 x HDMI Port

- 1 x Optical SPDIF Out Port

- 1 x USB4 Type-C Port (40 Gb/s)*

- 3 x USB 3.2 Gen2 Type-A Ports (10 Gb/s) (ReDriver) (USB32_12 are Lightning Gaming

Ports. USB32_11 supports Ultra USB Power.)

- 8 x USB 3.2 Gen1 Ports (ASMedia ASM1074 hub)

- 1 x RJ-45 LAN Port

- 1 x Clear CMOS Button

- 1 x BIOS Flashback Button

- 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

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<p>Storage</p>

<p>CPU:

- 1 x Blazing M.2 Socket (M2_1, Key M), supports type 2230/2242/2260/2280/22110 PCIe

Gen5x4 (128 Gb/s) mode*

Chipset:

- 1 x Hyper M.2 Socket (M2_2, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode*

- 1 x Hyper M.2 Socket (M2_3, Key M), supports type 2280 PCIe Gen4x4 (64 Gb/s) mode*

ASMedia ASM1061:

- 4 x SATA3 6.0 Gb/s Connectors

* Supports NVMe SSD as boot disks

* If M2_3 is occupied, PCIE2 will be disabled

Supports RAID 0, RAID 1 and RAID 10 for M.2 NVMe storage devices*

* Requires additional M.2 NVMe expansion cards to support RAID 10

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<p>Internal I/O</p>

<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 Front Panel Audio Connector (15µ Gold Audio Connector)

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

- 1 x USB 3.2 Gen1 Header (Supports 2 USB 3.2 Gen1 ports)

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

- 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

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<p>BIOS Feature</p>

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

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<p>Software and UEFI</p>

<p>Software

- ASRock Motherboard Utility (A-Tuning)

- Killer Control Center

- ASRock Polychrome SYNC

* These utilities can be downloaded from

ASRock Live Update & APP Shop.

UEFI

- ASRock Full HD UEFI

- ASRock Auto Driver Installer

- ASRock Instant Flash</p>

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<p>OS</p>

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

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<p>Certifications</p>

<p>FCC, CE

- ErP/EuP ready (ErP/EuP ready power supply is required)</p>

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<p>Accessories</p>

<p>- 1 x User Manual

- 4 x SATA Data Cables

- 1 x Wireless Dongle USB Bracket

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

- 3 x Screws for M.2 Sockets

- 1 x Standoff for M.2 Socket</p>

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<p>Unique Feature</p>

<p>Superb Productivity

- PCIe Gen5 (Graphics, M.2)

- Dual Channel DDR5

- USB4 Type-C Port (40 Gb/s)

Rock-Solid Durability

- Server-Grade Low-Loss PCB

- 24+2+1 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 Gaming

- Killer 2.5G LAN, Killer 802.11ax Wi-Fi 6E Module

- Killer DoubleShot™ Pro

- ASRock Lightning Gaming Ports

EZ Update

- BIOS Flashback Button

- ASRock Auto Driver Installer</p>

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<p>Form Factor</p>

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

- 8 Layer PCB</p>

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