

//SRock

2890 TAICHI OCF

intel CORE

PRODUCT BRIEF :

- Supports Intel[®] Core[™] Ultra Processors (Series 2) (LGA1851)
- 22+1+2+1+1 Power Phase, 110A SPS for VCore
 2 x DDR5 DIMMs
- 2 X DDh5 Diiviivis
- Supports Dual Channel, up to 10133+ (OC)* • 2 PCle 5.0 x16, 1 PCle 4.0 x4
- Graphics Output Options: 2 Thunderbolt[™] 4 Type-C
- Realtek ALC4082 7.1 CH HD Audio Codec, Nahimic Audio
- · 4 SATA3
- 1 Blazing M.2 (PCle Gen5 x4)
- 3 Hyper M.2 (PCle Gen4 x4)
- 2 Hyper M.2 (PCle Gen4 x4 & SATA3)
- 2 Thunderbolt™ 4 Type-C (Rear)
- 2 USB 3.2 Gen2x2 Type-C (1 Rear, 1 Front)
- 4 USB 3.2 Gen2 Type-A (Rear)
- 5 USB 3.2 Gen1 (1 Rear, 4 Front)
- 3 USB 2.0 (Front)

・5G LAN

- 802.11be Wi-Fi 7 + Bluetooth
- Supports BIOS Flashback, Memory OC Shield, 20K Caps with 1000uF Capacitance, Professional Overclocking Toolkit

WIFI 🕄 💋 THUNDERBOLT.

I/O OVERVIEW



* Performance results may vary by hardware configurations.





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DETAIL SPECIFICATION

Platform	- ATX Form Factor: 12.0-in x 9.6-in, 30.5 cm x 24.4 cm - 10 Layer PCB - 2oz Copper PCB	USB	CPU: - 2 x Thunderbolt™ 4 Type-C (Rear) Chipset: - 2 x USB 3.2 Gen2x2 Type-C (1 Rear, 1 Front) - 4 x USB 3.2 Gen2 Type-A (Rear) - 5 x USB 3.2 Gen1 (1 Rear, 4 Front) - 3 x USB 3.0 (Front) * All USB ports support ESD Protection
Unique Feature	Superb Productivity - PCIe Gen5 (Graphics, M.2) - Dual Channel DDR5 - Thunderbolt™ 4 Type-C Ports (40 Gb/s)		
	- 6 x M.2 Sockets Rock-Solid Durability - Server-Grade Low-Loss PCB - 22+1+2+1+1 Power Phase, 110A SPS for VCore with Enlarged Heatsink Armor - Memory OC Shield - 20K Long-lasting Black Caps (high quality and conductive polymer capacitors) Ultrafast Connectivity - 5G LAN, 802.11be Wi-Fi 7 Module Professional Overclocking - ASRock Hyper BCLK Engine - 6 x OC Profiles - Heater - Elmort.abs OC Panel EZ Update - BIOS Flashback Button	Rear Panel I/O	 2 x Antenna Ports 1 x PS/2 Keyboard Port 1 x PS/2 Mouse Port 1 x Optical SPDIF Out Port 2 x Thunderbolt* 4 Type-C Ports (40 Gb/s for USB4 protocol; 40Gb/s for Thunderbolt protocol)* 1 x USB 3.2 Gen2x2 Type-C Port (20 Gb/s) 4 x USB 3.2 Gen2 Type-A Ports (10 Gb/s)* 4 x USB 3.2 Gen2 Type-A Ports (10 Gb/s)* 1 x RU-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) 1 x Microphone Input Jack (Gold Audio Jack) * Supports USB PD 3.0 up to 5V@3A (15W) charging
СРИ	- ASRock Auto Driver Installer	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*
	- Supports Intel® Hybrid Technology - Supports Intel® Turbo Boost Max 3.0 Technology - Supports Intel® Themal Velocity Boost (TVB) - Supports Intel® Adaptive Boost Technology (ABT) - Integrated NPU for dedicated AI acceleration - Supports ASRock Hyper BCLK Engine		 1 x Hyper M.2 Socket (M2_4, Key M), supports type 2260/2280 SATA3 6.0 Gb/s & PCIe Gen4x4 (64 Gb/s) modes* 1 x Hyper M.2 Socket (M2_5, Key M), supports type 2260/2280 SATA3 6.0 Gb/s & PCIe Gen4x4 (64 Gb/s) modes* 1 x Hyper M.2 Socket (M2_6, Key M), supports type 2260/2280 PCIe Gen4x4 (64 Gb/s) mode* A SMNedia ASM1061: 4 x SATA3 6.0 Gb/s Connectors
Chipset	- Intel® 2890		* Supports NVMe SSD as boot disks
Memory	Dual Channel DDR5 Memory Technology 2 x DDR5 DIMM Slots Supports DDR5 non-ECC, un-buffered memory up to 10133+(OC)* 1DPC 1R Up to 9866+ MHz (OC), 6400 MHz Natively. 1DPC 2R Up to 6800+ MHz (OC), 6400 MHz Natively. Max. capacity of system memory: 128GB Supports Intel [®] Extreme Memory Profile (XMP) 3.0x * Please refer to Memory Support List on ASRock's website for more information. (http://www.asrock.com/)	RAID	- Supports RAID 0, RAID 1, RAID 5 and RAID 10 for M.2 NVMe storage devices
		Connector	 2 x Thermistor Cable Headers 1 x Power LED and Speaker Header 4 x Addressable LED Headers* 2 x CPU Fan Connectors (4-pin) (Smart Fan Speed Control)** 4 x Chassis Fan Connectors (4-pin) (Smart Fan Speed Control)** 1 x AIO Pump Fan Connector (4-pin) (Smart Fan Speed Control)** 2 x Chassis Fan Connector (4-pin) (Smart Fan Speed Control)** 2 x AIO Pump Fan Connector (4-pin) (Smart Fan Speed Control)** 2 x AIO Pump Fan Connector (Hi-Density Power Connector) 2 x 8 pin 12V Power Connectors (Hi-Density Power Connector)
Expansion Slot	CPU: - 1 x PCIe 5.0 x16 Slot (PCIE2), supports x16 mode* - 1 x PCIe 5.0 x16 Slot (PCIE3), supports x8 mode* Chipset: - 1 x PCIe 4.0 x4 Slot (PCIE1), supports x4 mode* - 1 x Vertical M.2 Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module * PCIE3 supports Socket (Key E), supports type 2230 WiFi/BT PCIe WiFi module * PCIE3 supports PCIe riser cards to extend one x8 slot to x4/x4 slots. * Supports NVMe SSD as boot disks - Supports AMD CrossFire™		 1 x 6 pin Graphics 12V Power Connector (Hi-Density Power Connector) 1 x Front Panel Audio Connector (15µ Gold Audio Connector) 2 x USB 3.2 Gen1 Headers (Support 3 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 Heater Header 1 x ElmorLabs OCP Header 1 x Power Button with LED 1 x Reset Button with LED 1 x Reset Button with LED
	- 15µ Gold Contact in VGA PCIe Slots (PCIE2 and PCIE3)		 1 x Retry Button 1 x Safe Boot Button V-ProbeTM: 11-set of onboard voltage measurement points laid Rapid OC Buttons: +/- buttons to adjust OC frequency
Graphics	* Intel [®] UHD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. - Intel [®] X ^e LPG Graphics Architecture - 2 x Intel [®] Thunderbolt [™] 4, support HDCP 2.3 and max. resolution up to 8K 60Hz / 5K 120Hz [*] * 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.		- 6 x OC Switches - 1 x Slow Mode Switch - 1 x LN2 Mode Switch - 1 x NickShih's OC Profile 1 Button with LED - 1 x NickShih's OC Profile 2 Button with LED - 1 x NickShih's OC Profile 3 Button with LED - 1 x NickShih's OC Profile 3 Button with LED * Support in total up to 5V/3A, 15W LED Strip ** CPU_FAN1 supports the fan power up to 1A (12W). ** CPU_FAN2, CHA_FAN1~4 and AIO_PUMP support the fan power up to 3A (36W). ** CPU_FAN2, CHA_FAN1~4 and AIO_PUMP can auto detect if 3-pin or 4-pin fan is in use.
Audio	 - 7.1 CH HD Audio with Content Protection (Realtek ALC4082 Audio Codec) - Nahimic Audio 	BIOS Feature	- 2 x 256Mb AMI UEFI Legal BIOS with GUI support
LAN	- 5 Gigabit LAN 10/100/1000/2500/5000 Mb/s - Realtek RTL8126	Software and UEFI	Software UEFI - ASRock Formula Drive - ASRock EZ Mode - ASRock Polychrome SYNC - ASRock Full HD UEFI * These utilities can be downloaded from - ASRock My Favorites in UEFI ASRock Live Update & APP Shop. - ASRock Auto Driver Installer - ASRock Live State - ASRock Hold State
		OS	- Microsoft® Windows® 11 64-bit
Wireless LAN	- 802.11be 2x2 Wi-Fi 7 Module - Supports IEEE 802.11a/b/g/n/ac/ax/axe/be - Supports 2.4GHz/5GHz/6GHz* frequency band - Supports 320MHz channel bandwidth with 6GHz* frequency band	Certifications	- FCC, CE - ErP/EuP ready (ErP/EuP ready power supply is required)
	 * Wi-Fi 7 (6GHz band) will be supported by Microsoff* 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. - 1 antenna to support 2 (Transmit) x 2 (Receive) diversity technology - Supports Bluetooth 5.4 - Supports MU-MIMO 	Accessories	 4 x SATA Data Cables 1 x ASRock WiFi 2.4/5/6 GHz Antenna 1 x ARGB Splitter Cable 2 x Thermistor Cables 1 x Screw for M.2 Socket 1 x Standoff for M.2 Socket