NZXT

N7 B650E

GAMING MOTHERBOARD WITH
INTEGRATED WIFI AND METAL COVER

ABOUT THE PRODUCT

Leverage the full value of your AMD Ryzen 7000 series CPU with the AMD B650 chipset. The N7 B650E features upgraded compatibility as well as N7 favorites, such as digital RGB and fan control, Wi-Fi 6e, and more.

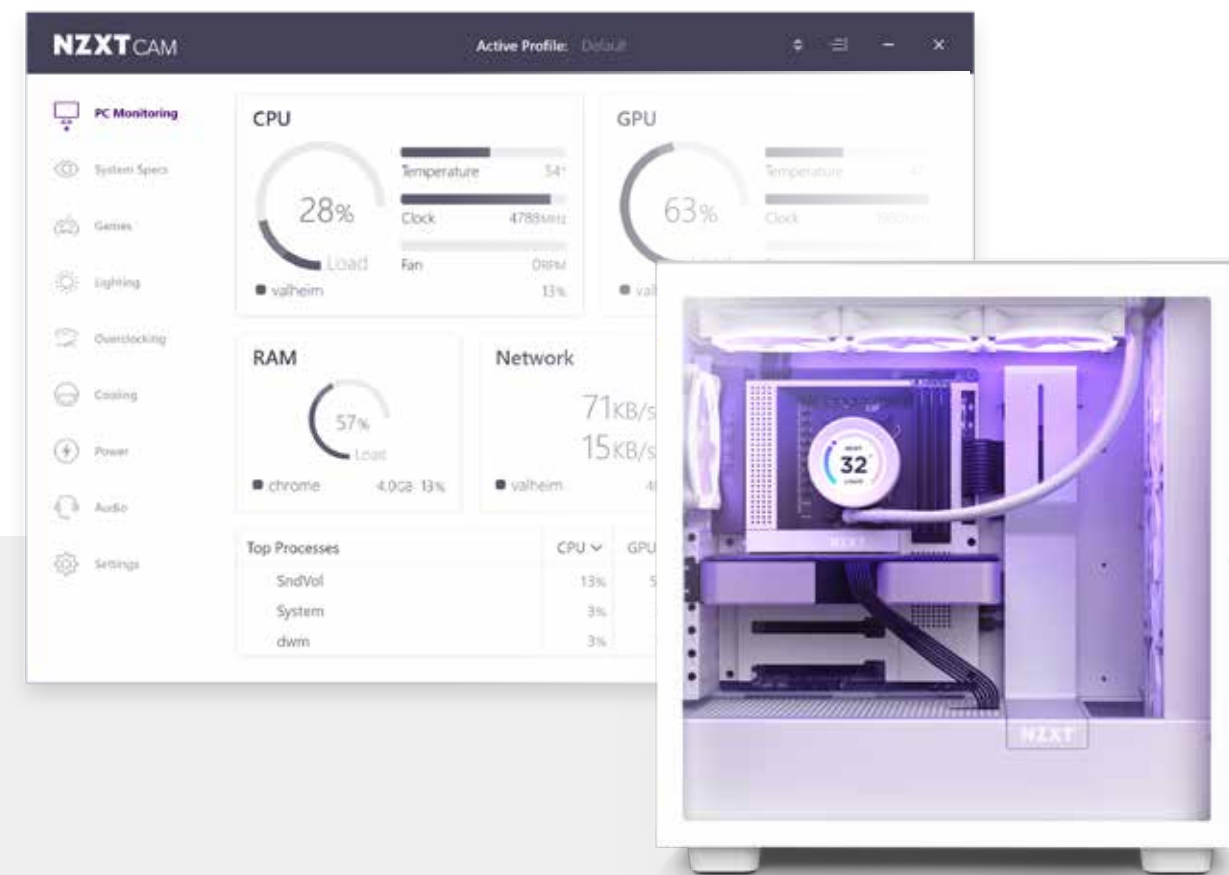AMD SOCKET AM5 | B650E   AMD RYZEN   POWERED BY NZXT CAM   HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

POWERED BY

NZXT CAM

MAXIMUM CONTROL

Easily customize lighting and cooling modes via NZXT CAM, with access to six RGB lighting channels. Configure lights and fans from any manufacturer.

FINISHING TOUCH

A white or black metal cover conceals the inner workings, blending seamlessly with your case. The heat fins have been expanded to cool the PCIe Gen 5 enabled NVMe drive slot.
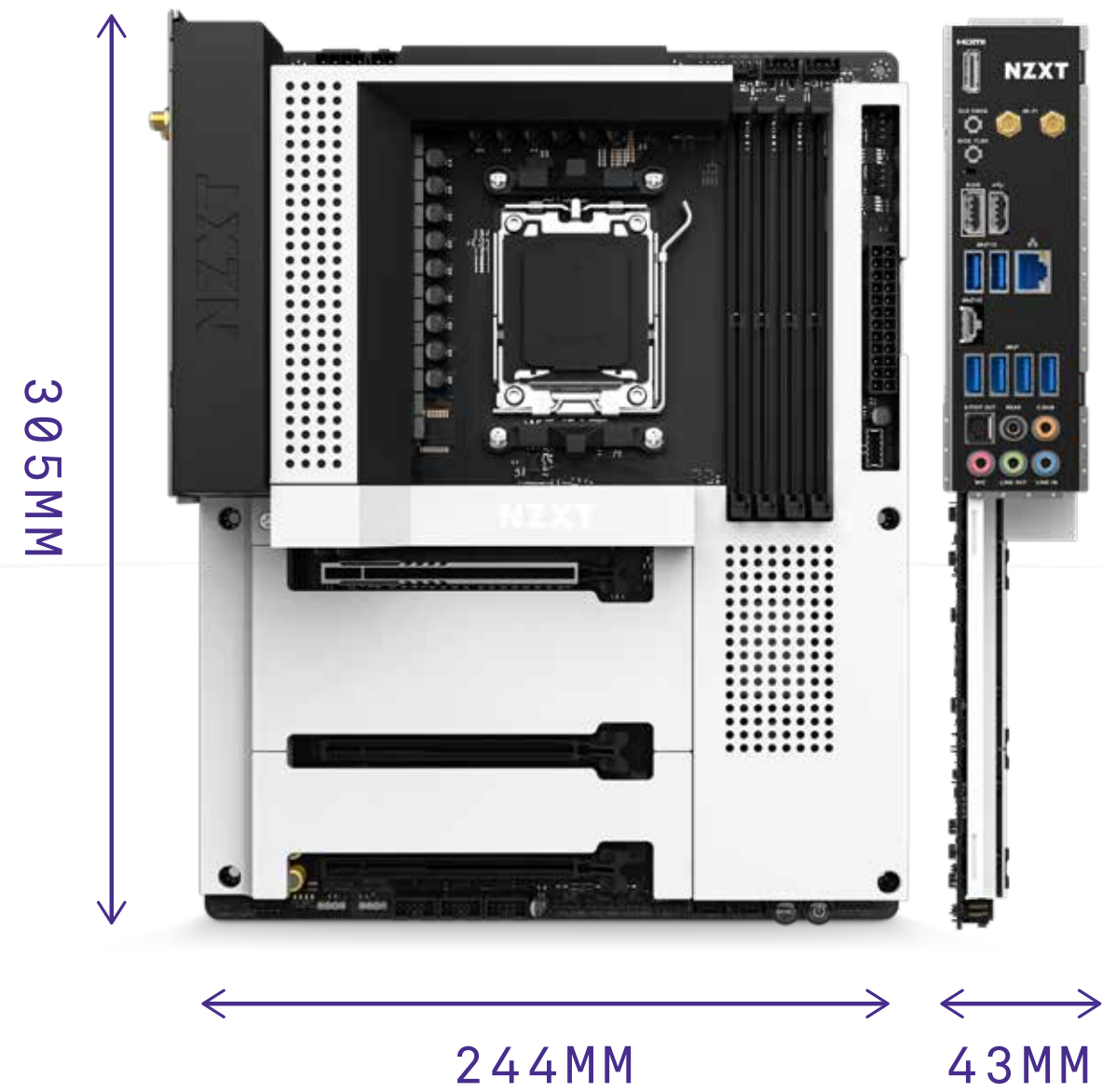
READY TO ROCK

Integrated Wi-Fi 6E, rear I/O shield, and clever port placement makes the build process easy—plenty of room on board for upgrades down the line.

Matte White   Matte Black

CPU & Socket	Supports AMD Ryzen™ 7000 Series Processors
Chipset	AMD B650
Memory	4 x DIMM slots, Max. 128GB, Dual-channel DDR5 Memory Technology
	> Supports DDR5 Non-ECC, Un-buffered Memory up to 6000+ (OC)*
	> Supports Extreme Memory Profile (XMP) and EXTended Profiles for Overclocking (AMD EXPO™ TECHNOLOGY) memory modules
	* Please refer to Memory QVL on NZXT's website (www.nzxt.com) for more information
Expansion Slots	**CPU**
	1 x PCIe 5.0 x 16 slot (PCIEX16_1), supports x 16 mode*
	Chipset
	2 x PCIe 4.0 x 16 slots (PCIEX16_2 and PCIEX16_3), support x 2 mode*
	1 x M.2 Socket (Key E), supports Type 2230 Wi-Fi/BT PCIe Wi-Fi module
	* Supports NVMe SSD as boot disks"
Integrated Graphics	Integrated AMD RDNA™ 2 graphics (Actual support may vary by CPU)
	1 x HDMI 2.1 TMD Compatible, supports HDR, HDCP 2.3 and max. resolution up to 4K 60Hz
Storage	**CPU**
	1 x M.2_1, Type 2242/2260/2280 (PCIe 5.0 ×4 mode)*
	1 x M.2_2, Type 2242/2260/2280 (PCIe 4.0 ×4 mode)*
	Chipset
	1 x M.2_3, Type 2242/2260/2280 (PCIe 4.0 ×2 mode)*
	4 x SATA 6Gb/s ports
	> Support RAID 0/1/10 for SATA storage devices
	> Support RAID 0/1/10 for M.2 NVMe storage devices
	Supports NVMe SSD as boot disks
LAN	Realtek® RTL8125BG 2.5G LAN

Wireless	802.11ax Wi-Fi 6E Module
	> Supports IEEE 802.11 a/b/g/n/ac/ax
	> Support Dual Band 2x2 with extended 6GHz band support*
	> Support MU-MIMO
	> Supports Bluetooth + High speed class II
	* Wi-Fi 6E (6GHz band) will be supported by Microsoft® Windows® 11 and availability may vary by country and region. A 6GHz compatible router is required for 6E functionality.
Bluetooth	Bluetooth V5.2
Audio	Realtek® ALC1220 Codec
	> Impedance sensing for rear out port
Rear I/O	2 x Wireless antenna SMA connectors
	1 x HDMI™ port
	2 x USB 2.0
	1 x USB 3.2 Gen 2 Type-C port
	2 x USB 3.2 Gen 2 ports
	4 x USB 3.2 Gen 1 ports
	1 x Clear CMOS button
	1 x BIOS Flashback button
	1 x LAN (RJ45) port
	5 x Audio jacks
	1 x Optical S/PDIF Out port

305MM

244MM   43MM

Internal I/O	1 x 24-pin ATX power connector
	1 x 8+4-pin ATX 12V power connector
	1 x 4-pin CPU_FAN connector(1)
	1 x 4-pin AIO_PUMP connector(1)
	5 x 4-pin SYS_FAN connectors(1)
	4 x NZXT RGB LED connectors(2)
	2 x 5V ARGB LED connector(3)
	3 x USB 2.0 header (Up to 6 USB 2.0 ports)
	2 x USB 3.2 Gen1 header (Up to 4 USB 3.2 Gen 1 ports)
	1 x USB 3.2 Gen2 front panel header (For USB Type-C)
	1 x Front panel audio connector
	1 x Power button
	1 x Reset button
	4 x POST LEDs
	1. CPU_FAN, AIO_PUMP and all SYS_FAN connectors support maximum 2A (24W) per fan header and auto detects if a 3-pin or 4-pin fan is connected.
	2. Supports up to 40 individually addressable LEDs per channel.
	3. Supports in total up to 5V/3A, 15W LED Strip. Supports up to 40 individually addressable LEDs.
Accessories	1 x User's manual
	4 x SATA cables (2 x 90 degree, 2 x 180 degree)
	2 x Wireless antennas
	2 x M.2 screws
Operating System	Microsoft® Windows® 11/10 (64-bit)
Form Factor	ATX
Dimensions	305 x 244
Certifications	FCC, CE, WHQL, ErP/EuP Ready
Warranty	3 years

Unit (RETAIL BOX)	
Dimensions	319x382x94mm
Net Weight	1380 g
Gross Weight	2325 g
Carton	
Units Per Carton	5 pcs
Dimensions (LxWxH)	492x329x410mm
Volume (CUFT)	2.34 ft3
Net Weight	7.7 Kg
Gross Weight	13.7 Kg

Sea Ship with Pallet	
20GP	30 cartons x 10pallets = 300 cartons
40GP	30 cartons x 22pallets = 660 cartons
40HQ	30 cartons x 22pallets = 660 cartons
Air Ship with Pallet	
Pallet size(LXWXH)	115 x 107 x 135cm
Carton per Pallet	18 cartons/pallet

	N7 B650E - All White	N7 B650E - All Black
Model	N7-B65XT-W1	N7-B65XT-B1
EAN	5056547202815	5056547202822
UPC	810074842877	810074842884

All White

All Black