

N7 B550 Technical Specifications

CPU & Socket	Supports AMD Socket AM4 Ryzen™ Processors (3000, 4000, and 5000 Series Processors) * * Not compatible with AMD Ryzen™ 5 3400G and Ryzen™ 3200G
Chipset	AMD® B550
Memory	4 x DIMM, Max. 128GB, DDR4 Dual-channel memory architecture - AMD Ryzen series CPUs (Vermeer) support DDR4 4666+(O.C.)/ 4600(O.C.)/ 4533(O.C.) /4466(O.C.)/ 4400(O.C.)/ 4333(O.C.)/ 4266(O.C.)/ 4200(O.C.)/ 4133(O.C.)/ 4000(O.C.)/ 3866(O.C.)/ 3800(O.C.)/ 3733(O.C.)/ 3600(O.C.)/ 3466(O.C.)/ 3200/ 2933/ 2667/ 2400/ 2133ECC & non-ECC, un-buffered memory* - AMD Ryzen series CPUs (Matisse) support DDR4 4666+(O.C.)/ 4600(O.C.)/ 4533(O.C.) /4466(O.C.)/ 4400(O.C.)/ 4333(O.C.)/ 4266(O.C.)/ 4200(O.C.)/ 4133(O.C.)/ 4000(O.C.)/ 3866(O.C.)/ 3800(O.C.)/ 3733(O.C.)/ 3600(O.C.)/ 3466(O.C.)/ 3200/ 2933/ 2667/ 2400/ 2133 ECC & non-ECC, un-buffered memory* - AMD Ryzen series APUs (Renoir) support DDR4 4733+(O.C.)/ 4666(O.C.)/ 4600(O.C.)/ 4533(O.C.) /4466(O.C.)/ 4400(O.C.)/ 4333(O.C.)/ 4266(O.C.)/ 4200(O.C.)/ 4133(O.C.)/ 4000(O.C.)/ 3866(O.C.)/ 3800(O.C.)/ 3733(O.C.)/ 3600(O.C.)/ 3466(O.C.)/ 3200/ 2933/ 2667/ 2400/ 2133 ECC & non-ECC, un-buffered memory* - Support Extreme Memory Profile (XMP) memory modules - 15µ Gold Contact in DIMM Slots Please refer to Memory QVL on NZXT's website (www.nzxt.com) for more information.
Expansion Slots	AMD Ryzen Series CPUs (Vermeer) 2 x PCIe x16 Slots (PCIe1: Gen4x16 mode; PCIe3: Gen3 x4 mode) AMD Ryzen Series CPUs (Matisse) 2 x PCIe x16 Slots (PCIe1: Gen4x16 mode; PCIe3: Gen3 x4 mode) AMD Ryzen Series CPUs (Renoir) 2 x PCIe x16 Slots (PCIe1: Gen3x16 mode; PCIe3: Gen3 x4 mode) - Supports AMD Quad CrossFireX™ and CrossFireX™ - Supports NVMe SSD as boot disks 2 x PCIe 3.0 x1 Slots 1 x M.2 Socket (Key E), supports type 2230 WiFi/BT module
Integrated Graphics	Integrated AMD Radeon™ Vega Series Graphics in Ryzen Series APU* * Actual support may vary by CPU - DirectX 12, Pixel Shader 5.0 - Shared memory default 2GB. Max Shared memory supports up to 16GB with 32GB system memory installed. - Supports HDMI 2.1 with max. resolution up to 4K x 2K (4096x2160) @ 60Hz, HDR and HDCP 2.3 - Supports Microsoft PlayReady®
Storage	AMD® B550 Chipset

	1 x M2_1: M.2 type 2242/2260/2280 (PCIe 4.0 x4 mode (with Mastisse & Vermeer) or PCIe 3.0 x4 (with Renoir)) 1 x M2_2: M.2 type 2242/2260/2280 (PCIe 3.0 x2 & SATA mode) 6 x SATA 6Gb/s ports* - Support RAID 0/1/5/10, NCQ, AHCI and Hot Plug * M2_2 and SATA3_5_6 share lanes.
LAN	Realtek® RTL8125BG 2.5G LAN
Wireless	Intel Dual Band Wireless-AX210 Wi-Fi 6E Wi-Fi 802.11 a/b/g/n/ax - Support dual band frequency 2.4/5GHz/6GHz - Support MU-MIMO
Bluetooth	Bluetooth V5.2
Audio	Realtek® ALC1220 Codec - 8-Channel High Definition Audio, 32-bit /192KHz DAC - 120dB SNR DAC with Differential Amplifier - NE5532 Premium Headset Amplifier for Front Panel Audio Connector (Supports up to 600 Ohm impedance headsets) - Nichicon Fine Gold Series Audio Capacitors - 15μ Gold Audio Connector and Gold Audio Jacks
USB Ports	3 x USB 3.2 Gen 2 ports (3 at back panel) 1 x USB 3.2 Gen 2 Type-C (at back panel) 1 x USB 3.2 Gen 2 front panel port (For USB Type-C) 8 x USB 3.2 Gen 1 ports (4 at back panel, 4 at mid-board) 8 x USB 2.0 ports (2 at back panel, 6 at mid-board)
Rear I/O	2 x USB 2.0 ports 3 x USB 3.2 Gen 2 port 1 x USB 3.2 Gen 2 Type-C port 4 x USB 3.2 Gen 1 ports 1 x HDMI™ port 2 x Wireless antenna SMA connectors 1 x Clear CMOS button 1 x BIOS Flashback button 1 x LAN (RJ45) port 1 x Optical S/PDIF Out port 1 x 5.1-Channel audio jacks

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 ² 5 x 4-pin SYS_FAN connectors ² 2 x NZXT RGB LED connectors ³ 1 x 5V ARGB LED connector ⁴ 1 x 12V RGB LED connector ⁵ 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) 6 x SATA 6Gb/s connectors 1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage device support (PCIe 4.0 x4 mode (with Mastisse & Vermeer) or PCIe 3.0 x4 (with Renoir)) 1 x M.2 Socket 3 with M Key, type 2242/2260/2280 storage device support (PCIe 3.0 x2 & SATA mode) 1 x M.2 Socket 1 with E Key, (For wireless cards) 1 x Front panel audio connector 1 x Power button 1 x Reset button 4 x POST LEDs 1. CPU_Fan connector supports 3-pin or 4-pin fans with maximum 2A (24W) fan power. 2. 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. 3. Supports up to 40 individually addressable LEDs per channel. 80 LEDs total. Lighting channels support up to six addressable RGB LED Strips or five Aer RGB Fans. 4. Supports in total up to 5V/3A, 15W LED Strip. Supports up to 40 individually addressable LEDs. 5. Supports in total up to 12V/3A, 36W LED Strip
Accessories	1 * User's manual 4 * SATA cables (2 * 90 degree, 2 * 180 degree) 2 * Wireless antenna 2 * M.2 screws
Operating System	Microsoft® Windows® 10 (64-bit)
Form Factor	ATX
Dimensions	305 x 244 x 43mm
Certifications	FCC, CE, KCC, BSMI, ErP/EuP Ready