Bizgram Asia Pte. Ltd.
#05-50 Sim Lim Square 1 Rochor Canal Road Singapore 188504
sales@bizgram.com | +65 8777 6955 | ROC/GST: 200903547Z

Gigabyte X670 GAMING X AX V 1.0

SKU / Model: X670 GAMING X AX

Product overview

X670 GAMING X AX (rev. 1.0) AMD Socket AM5?Supports AMD Ryzen? 7000 / Ryzen? 8000 / Ryzen? 9000 Series Processors Unparalleled Performance?Twin 16*+2+2 Phases Digital VRM Solution Dual Channel DDR5?4*SMD DIMMs with AMD EXPO? & Intel??XMP Memory Module Support Next Generation Storage?1*PCIe 5.0 x4 and 3*PCIe 4.0 x4 M.2 Connectors Mega-Heatpipe & M.2 Thermal Guard?To Ensure VRM Power Stability & 25110 PCIe 5.0 M.2 SSD Performance EZ-Latch?PCIe x16 Slot & M.2 Connectors with Quick Release & Screwless Design Fast Networks?2.5GbE LAN & Wi-Fi 6E 802.11ax Extended Connectivity?HDMI, Dual USB-C??20Gbps and Upcoming GIGABYTE USB4 AIC Support Smart Fan 6?Features Multiple Temperature Sensors, Hybrid Fan Headers with FAN STOP Q-Flash Plus?Update BIOS Without Installing the CPU, Memory and Graphics Card * 8+8 phases parallel power design SPECIFICATIONS CPU AMD Socket AM5, support for: AMD Ryzen? 7000 Series Processors Chipset AMD X670 Memory Support for DDR5 6400(OC)/6200(OC)/6000(OC)/5600(OC)/5200/4800/4400 MT/s memory modules 4 x DDR5 DIMM sockets supporting up to 128 GB (32 GB single DIMM capacity) of system memory Dual channel memory architecture Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules Support for AMD EXtended Profiles for Overclocking (AMD EXPO?) and Extreme Memory Profile (XMP) memory modules Onboard Graphics ?Integrated Graphics Processor: 1 x HDMI port, supporting a maximum resolution of 4096?2160@60 Hz * Support for HDMI 2.1 version and HDCP 2.3. ** Support native HDMI 2.1 TMDS compatible ports. Audio Realtek? Audio CODEC High Definition Audio 2/4/5.1/7.1-channel LAN Realtek? 2.5GbE LAN chip (2.5 Gbps/1 Gbps/100 Mbps) Wireless Communication module AMD Wi-Fi 6E RZ616 (MT7922A22M) WIFI a, b, g, n, ac, ax, supporting 2.4/5/6 GHz carrier frequency bands BLUETOOTH 5.2 Support for 11ax 160MHz wireless standard and up to 2.4 Gbps data rate Expansion Slots CPU: 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x16 (PCIEX16) * For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot. Chipset: 1 x PCI Express x16 slot, supporting PCIe 4.0 and running at x4 (PCIEX4) 1 x PCI Express x16 slot, supporting PCIe 3.0 and running at x2 (PCIEX2) Support for AMD CrossFire? technology (PCIEX16 and PCIEX4) Storage Interface CPU: 1 x M.2 connector (Socket 3, M key, type 25110/2280 PCIe 5.0(Note) x4/x2 SSD support) (M2A_CPU) (Note) Actual support may vary by CPU. 1 x M.2 connector (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2B_CPU) Chipset: 2 x M.2 connectors (Socket 3, M key, type 22110/2280 PCIe 4.0 x4/x2 SSD support) (M2C_SB, M2D_SB) 4 x SATA 6Gb/s connectors RAID 0, RAID 1, and RAID 10 support for NVMe SSD storage devices RAID 0, RAID 1, and RAID 10 support for SATA storage devices USB CPU: 2 x USB 3.2 Gen 2 Type-A ports (red) on the back panel 2 x USB 3.2

Gen 1 ports on the back panel CPU + USB 2.0 Hub: 4 x USB 2.0/1.1 ports on the back panel Chipset: 2 x USB Type-C? ports, with USB 3.2 Gen 2?2 support (1 port on the back panel, 1 port available through the internal USB header) 8 x USB 3.2 Gen 1 ports (4 ports on the back panel, 4 ports available through the internal USB headers) 4 x USB 2.0/1.1 ports available through the internal USB headers Internal I/O Connectors 1 x 24-pin ATX main power connector 2 x 8-pin ATX 12V power connectors 1 x CPU fan header 1 x water cooling CPU fan header 3 x system fan headers 1 x CPU cooler LED strip/RGB LED strip header 2 x addressable LED strip headers 2 x RGB LED strip headers 4 x SATA 6Gb/s connectors 4 x M.2 Socket 3 connectors 1 x front panel header 1 x front panel audio header 1 x USB Type-C? header, with USB 3.2 Gen 2?2 support 2 x USB 3.2 Gen 1 headers 2 x USB 2.0/1.1 headers 1 x THB_U4 add-in card connector 1 x Trusted Platform Module header (For the GC-TPM2.0 SPI/GC-TPM2.0 SPI 2.0 module only) 1 x power button 1 x reset button 1 x Clear CMOS button 1 x reset jumper 1 x Clear CMOS jumper Back Panel Connectors 1 x Q-Flash Plus button 2 x SMA antenna connectors (2T2R) 1 x HDMI port 6 x USB 3.2 Gen 1 ports 4 x USB 2.0/1.1 ports 2 x USB 3.2 Gen 2 Type-A ports (red) 1 x USB Type-C? port, with USB 3.2 Gen 2?2 support 1 x RJ-45 port 3 x audio jacks I/O Controller iTE? I/O Controller Chip H/W Monitoring Voltage detection Temperature detection Fan speed detection Water cooling flow rate detection Fan fail warning Fan speed control BIOS 1 x 256 Mbit flash Use of licensed AMI UEFI BIOS PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0 Unique Features Support for GIGABYTE Control Center (GCC) * Available applications in GCC may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications. Support for Q-Flash Support for Q-Flash Plus Support for Smart Backup Bundled Software Norton? Internet Security (OEM version) LAN bandwidth management software Operating System Support for Windows 11 64-bit Support for Windows 10 64-bit Form Factor ATX Form Factor; 30.5cm x 24.4cm

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