ComX Computers
Product Specification Sheet

MB-GB550VDP+WT

Gigabyte B550 VISION D-P B550 Chipset AMD Ryzen AM4 Socket Motherboard with Wifi+ Thunderbolt3

Product Overview

Gigabyte B550 Vision D-P + Wifi+Thunderbolt3: AMD AM4 mb - Addressable LED Strip Support, 2x copper PCBs design, MoSFET heatsinks with 4x DTH fins-array copper heatpipe, SmartFan5 with 7x temperature sensors + 8x hybrid fan headers, solid pin power connectors (ATX 24+8+8pin), memory armor with stainless steel shielding, PCIe armor with stainless steel shielding+double locking bracket - AMD B550 chipset, 4x dual channel DDR4-5400(O.C)/3200 (ECC + non-ECC) with XMP support up to 128Gb, 4x SATA6G + dual (Gen4x4 + Gen3x4) M.2/NGFF with thermal guards (PCIe or SATA) with raid 0/1//0+1/5/10, on-board display with 2x Thunderbolt3(40GBPs)/ type-C + HDMi dual output (depends on CPU) + DP input from graphics card for 4K through Thunderbolt, on-board Realtek ALC1220-VB 7.1 Hi-Fi audio (with DTS-X ultra + optical s/pdif out) + dual (Intel+realtek) 2.5G gigabit LAN, Intel WiFi6 AX200 dual band 2.4Gbps WiFi + Bluetooth; 1x PCi-Ex1, 3x PCi-Ex16 (Gen4@16x + Gen4@8x + Gen3@4x) for Quad-GPU CrossfireX (no SLi), with 2x Thunderbolt3(40GBPs) / type-C + 2x USB3 type-A (Gen2 10GBPs) + 4x USB3 (Gen1 5GBPs) + 2x USB2.0, support optional serial port add-on cable, bundled Norton internet security - ATX



Specifications

Features:

See the Passion of creation vision Series
VISION Series motherboards are built for creator pc. It featured with reliable performance, impressive connectivity, expandable on graphics, and ultra-fast storage for creators to deal with heavy design workloads such as video editing and 3D rendering. It's the perfect fit for DIY creators to build their own ideal machine.

To protect against data corruption
Error Correction Code (ECC) memory corrects errors in your data as it passes in and out of memory to ensure reliability for critical applications.

Make Your Expandability Flexible
Multi-graphics configurations offer better graphics performance for applications which demand the highest frame rates without compromising on resolution.

NVIDIA QUADRO Professional Graphics Supports
NVIDIA QUADRO 3D Workstation Professional Graphics Solutions are designed and built specifically for artists, designers,

and engineers, NVIDIA Quadro GPUs power more than 100 professional applications across a broad range of industries. Professionals trust them to enable their best work using applications such as Adobe® Creative Cloud, Avid Media Composer, Autodesk Suites, Dassault Systemes, CATIA and SOLIDWORKS, Siemens NX, PTC Creo, and many more.

More Speed. More Pixels. More Possibilities.
Thunderbolt™ 3 is the single most advanced port available. It uses USB Type-C™ connectors and cables but as a single cable solution, creating one compact port that delivers the fastest connection to any dock display or data device. The only cable you need brings the limitless connectivity with you.

Daisy-chain Multiple Devices
GIGABYTE Thunderbolt™ motherboards allow users to daisy chain up to 12 devices simultaneously via an incredible bi-directional 40Gbps data pipeline that includes both PCIe and DisplayPort traffic. It redefines desktop PC connectivity to make it far easier to connect multiple high-speed storage devices and HD displays to your PC than ever before.

High-Bandwidth and Low-Latency Access-Layer Dual 2.5GbE Connectivity
With both LAN ports designed, you'll benefit from increased bandwidth for speed, automated load balancing for smoother data flow, and instant failover if anything goes wrong. Adoption of dual 2.5G Ethernet provides an immediate boost to overall network performance, and greatly improves the bandwidth required at large file transfers, video editing, and professional workloads.

Intel® Wi Fi 6 (Gig+) Make latency a thing of the past

- Intel Wireless solution supports 802.11ax, enables gigabit wireless performance, provides smooth video streaming, better gaming experience, fewer dropped connections, and speeds up to 2.4Gbps*.
- Wi-Fi 6 is designed to improve speed, increase efficiency, and reduce congestion in heavy bandwidth usage scenarios.

SuperSpeed USB 3.2 No Hassle Connection
The back panel of B550 VISION D-P features with USB 3.2 Gen2 ports design, which is twice the bandwidth compared to its previous. Be enjoying ultimate connection flexibility and brilliant transfer speeds of up to 10Gbps.

Cooling Technology
Effective cooling solution is essential for a heavy design workload to get away with slow down, crashes, and unexpected shutdown. Unconventional Heatsinks is designed for better thermal dissipation but also aesthetically appealing to creators. Iconic curved heatsink covers the hottest VRM area to ensure efficient power delivery for stable performance. Creators transfer larger file with un-throttled storage performance by efficient M.2 heatsinks.

Smart Fan 5
Eight hybrid fan headers and numerous temperature sensors are planted on the motherboard to monitor in real time and configure fan mode to fit different workloads via Smart Fan 5. Creators are allowed to set the trigger point to activate the fan and its corresponding speed. The fan completely stops when performing light tasks to avoid noise.

PCI Express 4.0 Hardware Design*
For most prosumers and content creators, high bandwidth storage and high performance graphics card or accelerator cards are critical for their projects. This is especially true for 3D rendering and creating high resolution textures. To support most cutting edge devices, this motherboard uses the groundbreaking PCIe 4.0 hardware design. From PCB, several new IC to device connectors, everything that the PCIe 4.0 signal goes is a completely new generation, to make sure your content creation PC is future proof.

PCIe Bandwidth*
Up to 31.5GB/s from new PCIe 4.0 x16 slot designs for the next generation add on cards need tremendous bandwidth, including the graphics card, deep learning accelerator card, and the video capture card.

SSD read speed

Content creators workflows constantly involve huge files, such as images, videos, and 3D models. Time for editing, saving, and transferring those huge files can be substantially reduced with the new generation PCIe 4.0 SSD.

Faster Speed. More Space.
M.2 Drives keep the load times away. Breaking the barriers of SATA limitations. M.2 PCIe SSD gives you X7 faster data transferring experience compared to 2.5" SATA solid state drives.

Dual NVMe PCIe x4 M.2
M.2, the latest storage technology. GIGABYTE M.2 solution offers considerably faster storage performance and provides an ideal storage with RAID modes. To feature PCIe 4.0*/3.0 x4 and PCIe 3.0 x4 M.2 connectors for offering the best compatibility in terms of NVMe storage for creators who demand high capacity and seek the best performance.

M.2 Ultra Cool
With durability in mind, GIGABYTE provides a thermal solution for M.2 drives. This unique M.2 Thermal Guard prevents throttling and bottlenecks from M.2 devices as it helps to reduce and dissipate heat before it becomes an issue.

Immersive sounds to go
DTS:X Ultra is capable of delivering consumers a truly premium entertainment experience by completely surrounding the listener and expanding the sound stage to create a more immersive environment. Supports channel-based, scene based, and object-based audio. Also, it takes movies, music, and interactive gaming experiences to an exciting new level.

Specifications:

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Specifications	
Product Code	MB-GB550VDP+WT
CPU	1. AMD Socket AM4, support for : AMD Ryzen 5000 Series / 3rd Generation AMD Ryzen processors / 3rd Generation AMD Ryzen with Radeon Graphics processors
Chipset	1. AMD B550

Memory	1. 4 x DDR4 DIMM sockets supporting up to 128 GB (32 GB single DIMM capacity) of system memory
	2. AMD Ryzen 5000 series processors:
	Support for DDR4 5100(O.C.) / 5000(O.C.) / 4866(O.C.) / 4600(O.C.) / 4400(O.C.) / 4000(O.C.) / 3600(O.C.) / 3333(O.C.) /3200/2933/2667/2400/2133 MHz memory modules
	3. 3rd Gen AMD Ryzen Processors:
	Support for DDR4 5200(O.C.) / 5000(O.C.) / 4866(O.C.) / 4600(O.C.) / 4400(O.C.) / 4000(O.C.) / 3600(O.C.) / 3333(O.C.) /3200/2933/2667/2400/2133 MHz memory modules
	4. 3rd Gen AMD Ryzen with Radeon Graphics processors:
	Support for DDR4 5400(O.C.) / 5200(O.C.) / 5000(O.C.) / 4866(O.C.) / 4600(O.C.) / 4400(O.C.) / 4000(O.C.) / 3600(O.C.) / 3333(O.C.) /3200/2933/2667/2400/2133 MHz memory modules
	5. Dual channel memory architecture
	6. Support for ECC Un-buffered DIMM 1Rx8/2Rx8 memory modules
	7. Support for non-ECC Un-buffered DIMM 1Rx8/2Rx8/1Rx16 memory modules
	8. Support for Extreme Memory Profile (XMP) memory modules
Onboard Graphics	Integrated in the 3rd Generation AMD Ryzen with Radeon Graphics processors+Intel Thunderbolt 3 Controller:
	1. 2 x Intel Thunderbolt 3 connectors (USB Type-C ports), supporting DisplayPort and Thunderbolt video outputs and a maximum resolution of 5120x2880@60 Hz with 24 bpp
	* Because of the limited I/O resources of the PC architecture, the number of Thunderbolt devices that can be used is dependent on the number of the PCI Express devices being installed. (Refer to Chapter 1-6, "Back Panel Connectors, " for more information.)
	* Support for DisplayPort 1.4 version, HDCP 2.3, and HDR.
	Integrated in the 3rd Generation AMD Ryzen with Radeon Graphics processors:
	1. 1 x HDMI port, supporting a maximum resolution of 4096x2160@60 Hz
	* Support for HDMI 2.1 version, HDCP 2.3, and HDR.
	Maximum shared memory of 16 GB
Audio	1. Realtek ALC1220-VB codec
	* The back panel line out jack supports DSD audio.
	2. Support for DTS:X Ultra
	3. High Definition Audio
	4. 2/4/5.1/7.1-channel
	5. Support for S/PDIF Out
LAN	1. Intel 2.5GbE LAN chip (2.5 Gbit/1000 Mbit/100 Mbit) (LAN1)
	2. Realtek 2.5GbE LAN chip (2.5 Gbit/1000 Mbit/100 Mbit) (LAN2)

Wireless Communication module	Intel Wi-Fi 6 AX200
	1. WIFI a, b, g, n, ac with wave 2 features, ax, supporting 2.4/5 GHz Dual-Band
	2. BLUETOOTH 5
	3. Support for 11ax 160MHz wireless standard and up to 2.4 Gbps data rate
	* Actual data rate may vary depending on environment and equipment.
Expansion Slots	1 x PCI Express x16 slot (PCIEX16), integrated in the CPU:
	1. 3rd Generation AMD Ryzen processors support PCIe 4.0 x16 mode
	2. 3rd Generation AMD Ryzen with Radeon Graphics processors support PCIe 3.0 x16 mode
	* For optimum performance, if only one PCI Express graphics card is to be installed, be sure to install it in the PCIEX16 slot.
	1 x PCI Express x16 slot (PCIEX8), integrated in the CPU:
	1. 3rd Generation AMD Ryzen processors support PCIe 4.0 x8 mode
	2. 3rd Generation AMD Ryzen with Radeon Graphics processors support PCIe 3.0 x8 mode
	* The PCIEX8 slot shares bandwidth with the PCIEX16 slot. When the PCIEX8 slot is populated, the PCIEX16 slot operates at up to x8 mode.
	1 x PCI Express x16 slot (PCIEX4), integrated in the Chipset:
	1. Supporting PCIe 3.0 x4 mode
	* The PCIEX4 slot shares bandwidth with the M2B_SB connector. The PCIEX4 slot becomes unavailable when a device is installed in the M2B_SB connector.
Multi-Graphics Technology	1. Support for AMD Quad-GPU CrossFire and 2-Way AMD CrossFire technologies
Storage Interface	1 x M.2 connector (M2A_CPU), integrated in the CPU, supporting Socket 3, M key, type 2242/2260/2280/22110 SSDs:
	1. 3rd Generation AMD Ryzen processors support SATA and PCIe 4.0 x4/x2 SSDs
	2. 3rd Generation AMD Ryzen with Radeon Graphics processors support SATA and PCIe 3.0 x4/x2 SSDs
	1 x M.2 connector (M2B_SB), integrated in the Chipset, supporting Socket 3, M key, type 2242/2260/2280/22110 SSDs:
	1. Supporting SATA and PCIe 3.0 x4/x2 SSDs
	4 x SATA 6Gb/s connectors, integrated in the Chipset:
	1. Support for RAID 0, RAID 1, and RAID 10

USB	Integrated in the CPU:
	1. 3 x USB 3.2 Gen 1 ports on the back panel
	2. 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel
	Chipset+Intel Thunderbolt 3 Controller:
	1. 2 x USB Type-C ports on the back panel, with USB 3.2 Gen 2 support
	Chipset:
	1. 1 x USB Type-C port with USB 3.2 Gen 1 support, available through the internal USB header
	2. 1 x USB 3.2 Gen 2 Type-A port (red) on the back panel
	3. 2 x USB 3.2 Gen 1 ports available through the internal USB header
	4. 1 x USB 2.0/1.1 port on the back panel
	Chipset+2 USB 2.0 Hubs:
	1. 5 x USB 2.0/1.1 ports (1 port on the back panel, 4 ports available through the internal USB headers)
Internal I/O Connectors	1. 1 x 24-pin ATX main power connector
	2. 1 x 8-pin ATX 12V power connector
	3. 1 x CPU fan header
	4. 1 x water cooling CPU fan header
	5. 4 x system fan headers
	6. 2 x system fan/water cooling pump headers
	7. 2 x addressable LED strip headers
	8. 2 x RGB LED strip headers
	9. 1 x CPU cooler LED strip/RGB LED strip header
	10. 2 x M.2 Socket 3 connectors
	11. 4 x SATA 6Gb/s connectors
	12. 1 x SATA DOM power connector
	13. 1 x front panel header
	14. 1 x front panel audio header
	15. 1 x USB Type-C port, with USB 3.2 Gen 1 support
	16. 1 x USB 3.2 Gen 1 header
	17. 2 x USB 2.0/1.1 headers
	18. 1 x Trusted Platform Module (TPM) header (2x6 pin, for the GC-TPM2.0_S module only)
	19. 1 x serial port header
	20. 1 x Clear CMOS jumper
	21. 2 x temperature sensor headers
	22. 1 x Q-Flash Plus button
	&#-246;All fan headers are subject to support AIO_Pump, Pump and high performance fan with the capability of delivering up to 2A/12V @ 24W.

Back Panel Connectors	1. 1 x PS/2 keyboard/mouse port
	2. 1 x DisplayPort In port
	3. 1 x HDMI port
	4. 2 x SMA antenna connectors (2T2R)
	5. 2 x USB 3.2 Gen 2 Type-A ports (red)
	6. 2 x Thunderbolt 3 connectors (USB Type-C port, with USB 3.2 Gen 2 support)
	7. 3 x USB 3.2 Gen 1 ports
	8. 2 x USB 2.0/1.1 ports
	9. 2 x RJ-45 ports
	10. 1 x optical S/PDIF Out connector
	11. 5 x audio jacks
I/O Controller	1. iTE I/O Controller Chip
H/W Monitoring	1. Voltage detection
	2. Temperature detection
	3. Fan speed detection
	4. Water cooling flow rate detection
	5. Overheating warning
	6. Fan fail warning
	7. Fan speed control
	* Whether the fan (pump) speed control function is supported will depend on the fan (pump) you install.
BIOS	1. 1 x 256 Mbit flash
	2. Use of licensed AMI UEFI BIOS
	3. PnP 1.0a, DMI 2.7, WfM 2.0, SM BIOS 2.7, ACPI 5.0

Unique Features	1. Support for APP Center
	* Available applications in APP Center may vary by motherboard model. Supported functions of each application may also vary depending on motherboard specifications.
	@BIOS
	EasyTune
	Fast Boot
	Game Boost
	ON/OFF Charge
	RGB Fusion
	Smart Backup
	System Information Viewer
	2. Support for Q-Flash Plus
	3. Support for Q-Flash
	4. Support for Xpress Install
Bundled Software	1. Norton Internet Security (OEM version)
	2. cFosSpeed
Operating System	1. Support for Windows 10 64-bit
Form Factor	1. ATX Form Factor; 30.5cm x 24.4cm
Remark	1. Due to different Linux support condition provided by chipset vendors, please download Linux driver from chipset vendors' website or 3rd party website.
	2. Most hardware/software vendors may no longer offer drivers to support Win9X/ME/2000/XP. If drivers are available from the vendors, we will update them on the GIGABYTE website.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/MB-GB550VDP-WT-Gigabyte-B550-VISION-D-P-B550-Chipset-AMD-Ryzen-AM4-Socket-Motherboard-p-252614.php

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