

Intel BE200.NGWG.NV

Intel Wi-Fi 7 BE200 Network Card Instruction Manual

Model: BE200.NGWG.NV

- Overview
- Features
- Setup & Installation
- Operating
- Maintenance
- Troubleshooting
- Specifications
- Support

1. PRODUCT OVERVIEW

The Intel Wi-Fi 7 BE200.NGWG.NV is an advanced wireless network adapter designed to provide high-speed internet connectivity and Bluetooth capabilities for compatible desktop and laptop systems. Utilizing the latest Wi-Fi 7 (802.11be) standard, this module offers enhanced performance, lower latency, and improved efficiency, making it ideal for demanding applications such as online gaming, 4K/8K video streaming, and large file transfers. It supports dual-band (2.4 GHz, 5 GHz) and tri-band (6 GHz) operation, along with Bluetooth 5.4 for seamless peripheral connectivity.



Figure 1.1: Front view of the Intel Wi-Fi 7 BE200 network card, showing the Intel branding, model number, and various regulatory markings.

2. KEY FEATURES

- **Wi-Fi 7 (802.11be) Standard:** Supports the latest Wi-Fi standard for next-generation wireless performance.
- **High Throughput:** Achieves a maximum speed of 5.8 Gbps across 2.4, 5, and 6 GHz bands.
- **2x2 TX/RX Streams:** Features two transmit and two receive streams for robust and efficient data transfer.
- **320 MHz Channel Bandwidth:** Utilizes wider channels for increased data capacity.
- **4K QAM:** Employs higher-order modulation for greater data density per signal.
- **Bluetooth 5.4:** Provides advanced Bluetooth connectivity for peripherals and accessories.
- **MU-MIMO (Multi-User, Multiple-Input, Multiple-Output):** Enhances network efficiency by allowing the router to communicate with multiple devices simultaneously.
- **OFDMA (Orthogonal Frequency-Division Multiple Access):** Improves spectral efficiency and reduces latency in dense environments.
- **Operating Temperature Range:** Designed to operate reliably from 0°C to 80°C.
- **Compact M.2 2230 Form Factor:** Suitable for integration into a wide range of compatible devices.

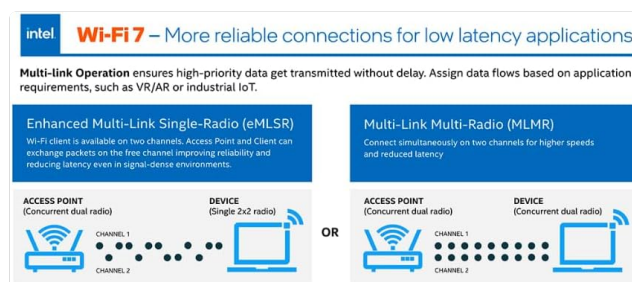


Figure 2.1: Close-up view of the Intel BE200 network card's label, displaying the model number (BE200NGW), Anatel certification, TPN, SPS, FRU, WFM, BDM, MM, TA, and QR codes.



Figure 2.2: Diagram explaining Intel Wi-Fi 7's Multi-link Operation, showcasing Enhanced Multi-Link Single-Radio (eMLSR) and Multi-Link Multi-Radio (MLMR) for more reliable connections and low latency applications.

3. SETUP & INSTALLATION

3.1. Safety Precautions

- Always disconnect the power cable and turn off your computer before opening the case.
- Discharge any static electricity by touching a grounded metal object (e.g., the computer chassis) before handling components. Consider using an anti-static wrist strap.
- Handle the network card by its edges to avoid touching the gold connectors or sensitive components.
- Ensure proper ventilation and a clean workspace.

3.2. System Requirements

- Available M.2 slot (Key E) on your motherboard or laptop.
- Supported Operating Systems: Windows 11, Windows 10, Linux (specific kernel versions may be required for full functionality).
- Compatible Wi-Fi 7 router/access point for optimal performance.

3.3. Installation Steps (Desktop PC)

1. **Prepare Your System:** Power off your computer and unplug all cables. Open the computer case.
2. **Locate M.2 Slot:** Identify an available M.2 slot on your motherboard. It is typically labeled and may have a pre-installed standoff screw.
3. **Insert the Card:** Gently align the Intel BE200 network card with the M.2 slot's keying notch. Insert the card at a slight angle (approximately 30 degrees) into the slot until the gold contacts are fully seated.
4. **Secure the Card:** Press the card down towards the motherboard. Secure it with the small screw provided with your motherboard or the network card, fastening it to the standoff.
5. **Connect Antennas (if applicable):** If your system uses external antennas, carefully connect the antenna cables to the corresponding connectors on the network card (usually labeled MAIN and AUX).
6. **Close Case & Power On:** Close your computer case, reconnect all cables, and power on your system.

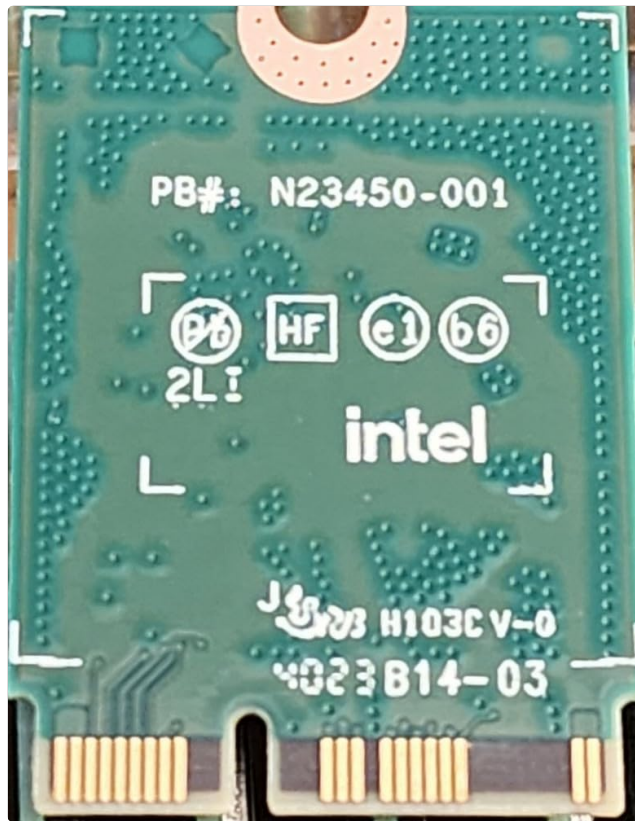


Figure 3.1: Back view of the Intel BE200 network card, showing the PCB and additional markings.



Figure 3.2: Multiple Intel BE200 network cards, illustrating their compact M.2 form factor.

4. OPERATING INSTRUCTIONS

4.1. Driver Installation

After physical installation, you will need to install the appropriate drivers for the Intel Wi-Fi 7 BE200 to function correctly. Your operating system may automatically detect and install generic drivers, but for optimal performance and full feature support, it is recommended to install the latest drivers directly from Intel's official website.

1. **Download Drivers:** Visit the official Intel Download Center (www.intel.com/downloadcenter). Search for "Intel Wi-Fi 7 BE200" or navigate to the wireless adapters section. Download the latest Wi-Fi and Bluetooth drivers compatible with your operating system (Windows 11, Windows 10, or Linux).
2. **Install Drivers:** Run the downloaded installer executable. Follow the on-screen prompts to complete the installation. You may need to restart your computer after installation.
3. **Verify Installation:** Open Device Manager (Windows) and check under "Network adapters" and "Bluetooth" to ensure the Intel Wi-Fi 7 BE200 and its Bluetooth component are listed and functioning without errors.

4.2. Connecting to a Wi-Fi Network

Once drivers are installed, your system will be able to detect available Wi-Fi networks.

1. **Access Network Settings:** Click on the Wi-Fi icon in your system tray (Windows) or navigate to network settings (Linux).
2. **Select Network:** Choose your desired Wi-Fi network from the list of available networks.
3. **Enter Password:** If prompted, enter the network security key (password) and click "Connect".
4. **Verify Connection:** Confirm that your device is connected to the internet.

4.3. Bluetooth Pairing

To connect Bluetooth devices:

1. **Enable Bluetooth:** Ensure Bluetooth is enabled on your computer and the device you wish to pair.
2. **Enter Pairing Mode:** Put your Bluetooth device into pairing mode (refer to the device's manual).
3. **Add Device:** On your computer, go to Bluetooth settings (e.g., Settings > Bluetooth & devices on Windows) and click "Add device" or "Pair new device".
4. **Select and Pair:** Select your Bluetooth device from the list and follow any on-screen prompts to complete the pairing process.

5. MAINTENANCE

To ensure optimal performance and longevity of your Intel Wi-Fi 7 BE200 network card, consider the following maintenance practices:

- **Keep Drivers Updated:** Regularly check Intel's official website for the latest Wi-Fi and Bluetooth drivers. Driver updates often include performance improvements, bug fixes, and security enhancements.
- **Operating System Updates:** Ensure your operating system (Windows, Linux) is kept up-to-date. OS updates can include network stack improvements and compatibility fixes that benefit your wireless adapter.
- **Maintain Proper Ventilation:** Ensure your computer's cooling system is functioning correctly to prevent overheating, which can affect the performance and lifespan of internal components.
- **Cleanliness:** Periodically clean the interior of your computer case to prevent dust buildup, which can impede airflow and lead to overheating. Use compressed air for this purpose.

6. TROUBLESHOOTING

If you encounter issues with your Intel Wi-Fi 7 BE200 network card, try the following troubleshooting steps:

6.1. No Wi-Fi or Bluetooth Connectivity

- **Check Physical Installation:** Ensure the card is securely seated in the M.2 slot and any antenna cables are properly connected.
- **Verify Drivers:** Open Device Manager (Windows) and check if the Intel Wi-Fi 7 BE200 and Bluetooth devices are listed without yellow exclamation marks or red 'X's. If not, reinstall the drivers.
- **Enable Wireless/Bluetooth:** Ensure Wi-Fi and Bluetooth are enabled in your operating system settings and/or via any physical switches or keyboard shortcuts on your laptop.
- **BIOS/UEFI Settings:** Some motherboards have options to enable/disable M.2 slots or integrated wireless. Check your system's BIOS/UEFI settings.

6.2. Slow Wi-Fi Speed or Intermittent Connection

- **Update Drivers:** Ensure you have the latest Wi-Fi drivers from Intel's website.
- **Router/Access Point:** Verify your router supports Wi-Fi 7 (802.11be) and is configured for optimal performance (e.g., using 6 GHz band if available, appropriate channel width).
- **Signal Strength:** Check your Wi-Fi signal strength. Move closer to the router or consider using a Wi-Fi extender if the signal is weak.
- **Interference:** Other wireless devices (cordless phones, microwaves, other Wi-Fi networks) can cause interference. Try changing the Wi-Fi channel on your router.
- **Network Reset:** On Windows, try using the "Network Reset" feature (Settings > Network & Internet > Advanced network settings > Network reset).

6.3. Bluetooth Device Not Pairing

- **Device Pairing Mode:** Ensure the Bluetooth device you are trying to pair is in discoverable/pairing mode.
- **Remove Existing Pairings:** If the device was previously paired with another system, remove that pairing first.
- **Restart Bluetooth Service:** On Windows, you can restart the Bluetooth Support Service via Services (services.msc).

7. TECHNICAL SPECIFICATIONS

Feature	Description
Brand	Intel
Model Number	BE200.NGWG.NV
Product Dimensions	1.15 x 0.84 x 0.92 inches (29.2 x 21.3 x 23.4 mm)
Item Weight	0.106 ounces (3 Grams)
Hardware Interface	M.2 (Key E)
Wireless Standard	Wi-Fi 7 (802.11be)
Data Link Protocol	IEEE 802.11, Bluetooth 5.4
Data Transfer Rate	Up to 5.8 Gbps

Feature	Description
Frequency Bands	2.4 GHz, 5 GHz, 6 GHz
Antenna Configuration	2x2 TX/RX Streams
Supported Operating Systems	Windows 11, Windows 10, Linux
Compatible Devices	Desktop, Laptop, Server (with compatible M.2 slot)
Operating Temperature	0°C to 80°C
UPC	735858547307

8. WARRANTY AND SUPPORT

8.1. Warranty Information

Intel products are typically covered by a limited warranty. The specific terms and duration of the warranty for your Intel Wi-Fi 7 BE200 network card may vary based on your region and the retailer from whom you purchased the product. Please retain your proof of purchase for warranty claims.

For detailed warranty information, please refer to Intel's official warranty policy available on their website or contact your point of purchase.


8.2. Technical Support

For further technical assistance, driver downloads, or product information, please visit the official Intel Support website:






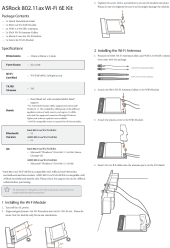

You can also find community forums and knowledge base articles that may help resolve common issues.

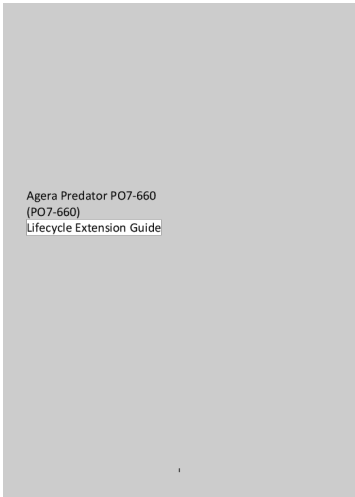
Related Documents - BE200.NGWG.NV



[Intel WiFi Adapter Information Guide: Features, Specifications, and Regulatory Information](#)

Comprehensive guide to Intel WiFi adapters, covering supported models, features, adapter settings, regulatory compliance, and safety notices for various Intel wireless networking products.

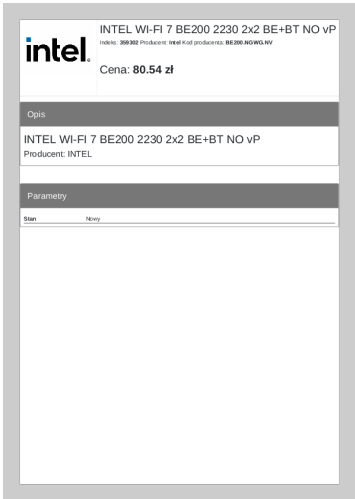
	<p>Intel BE200 WiFi 7 Card Installation and Specifications</p> <p>Comprehensive guide to installing the Intel BE200 WiFi 7 wireless network card, including specifications, compatibility, and troubleshooting tips for desktop PCs.</p>
	<p>Intel WiFi Adapter Information Guide</p> <p>This guide provides essential information about Intel wireless adapters, detailing their compatibility with various Wi-Fi standards and offering insights into adapter settings, regulatory compliance, and support resources. It aims to help users understand and optimize their wireless connectivity.</p>
	<p>Lenovo ThinkStation P3 Ultra Power Configurator Guide</p> <p>Detailed guide to the Lenovo ThinkStation P3 Ultra power configurations, including CPU and GPU power ratings, architectural design, and external power adapter options.</p>
	<p>ASRock 802.11ax Wi-Fi 6E Kit Installation and Specifications</p> <p>This document provides a comprehensive guide to the ASRock 802.11ax Wi-Fi 6E Kit, detailing package contents, technical specifications, installation procedures for the Wi-Fi module and antennas, and regulatory compliance information.</p>
	<p>Lenovo ThinkStation Wi-Fi Solutions Guide</p> <p>A comprehensive guide to the Wi-Fi solutions available for Lenovo ThinkStation P3 Tiny, P3 Ultra SFF, P3 Tower, P5, P7, P620, P8, and PX workstations. This document details Wi-Fi modules, part numbers, and installation notes.</p>



[pdf] Troubleshooting Guide Guide Diagram

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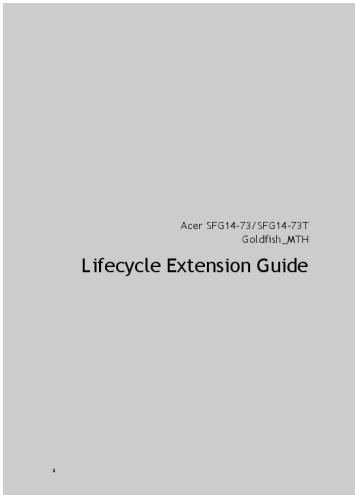


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[\[pdf\]](#) Specifications

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[\[pdf\]](#) User Manual Specifications Datasheet

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Name	Wert
Chipset	Intel Z790
Prozessor	Intel Core i7-14700K
Arbeitsspeicher	32 GB DDR5
SSD	1 TB NVMe
Netzteil	850 W
Video	Intel Arc A750
Laufwerke	2x 2.5" SATA
Optische Laufwerke	1x DVD-RW
Netzwerk	10 GbE LAN
Bluetooth	5.3
Wi-Fi	6E
Audio	7.1 Channel
Case	ATX
Case-Farbe	Black
Case-Größe	ATX
Case-Material	Alu
Case-Funktionen	Temperatur-Sensoren, Lüfter-Schalter
Case-Design	Modern, minimalistisch
Case-Abmessungen	220 x 220 x 450 mm
Case-Gewicht	10 kg
Case-Zusatzinfos	Temperatur-Sensoren, Lüfter-Schalter
Case-Modell	MEG Trident X2 14th
Case-Preis	1.200 €
Case-Verfügbarkeit	Im Handel
Case-Verlinkung	https://www.msi.com/de/Products/MEG-Trident-X2-14th

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SELLING POINTS

- Windows 11 Home
- Intel® Core™ Processor i7-14700K
- MSI GeForce RTX 4090 DADA VENTUS 3X OC
- AI Gaming Desktop - Verbesserte Kühlung, Gaming und Streaming durch KI
- MEG 2.0 - Gibt Informationen über den Systemstatus, die Leistung und steuert die Gaming-Intelligence-Funktion der MSI-Gaming-Monitore
- Silent Storm-Cooling 3 - Optimiert den airflow durch getrennte Kanäle
- 240mm AI-Wasserpumpe - Liefert die Wärme der CPU effizient ab
- AI Battle-Design - Die Kühlluft wird geleitet, um einen starken Windsturm zu erzeugen, damit die Temperatur im Gehäuse nicht zu heiß ansteigt
- Universalist DSDS RAM mit Kühlerkopf
- Universalist VRM mit Kühlerkopf
- Ambient-Lite-Unterstützung, für ein immersives Spielerlebnis
- Support für PCIe 5.0 auf
- PCIe Gen 5-High-Bandwidth, verbesserte Blockband- und neue Rendering-Fähigkeiten sorgen für ein besseres Gaming-Erlebnis
- 230 + 10 Dual-LAN - Onlinegaming ohne Verzögerungen
- NVIDIA Studio - Idealisiert für Erwerker, unterstützt mit Studio-Tools und exklusiven Tools





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SELLING POINTS

- Windows 11 Home/Windows 11 Pro
- Intel® Core™ i7 Processor i7-14700K
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[pdf] User Manual Specifications

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Was neues Hightech für Experimente Garne, der MEG Trident X2 124th Gaming Desktop, verfügt über ein 12.4" Full HD 2.5" Active-Matrix-Display mit einer Auflösung von 1920x1080 Pixeln. Die Leistungsfähigkeit wird weiter die Gaming-Intelligenz. Funktion von MEG Gaming HyperBoost basiert über Trident X2 und von Intel® Core™ i7-4770K CPU, 4GB GDDR5 und 12TB 7200 RPM Hardwaredrive. Durch die erweiterten Power- und Air-Management-Systeme des Silent Storm Cooling 3-Verfahren ist über 240 mm Durchmesser können schnell Temperatur der auch Schallenergie auf ein Minimum senken. Diese Grafik-Garantien sind das Beste seitens Intel zu bieten.



SELLING POINTS

- Windows 8 Home/Windows 8 Pro
- 12.4" Full HD 2.5" IPS processor 1440p/60Hz
- 12.4" Full HD GeForce GTX™ 4700M graphics card, revolutionize your creative process with GTX and AI
- 4GB Gaming Memory, 12TB Hardwaredrive in serial, gaming, and game recording
- Silent Storm Cooling 3™ Optimize airflow with auto-tuning cooling control
- 12TBmsd 7200 RPM Capacity, effectively dissipate heat with CPU
- AirSurffix™ design - Concentrates the cold air by high graphics cards above the cold air to enhance heat dissipation.
- 12TBmsd 7200 RPM Capacity with harddisk
- Supports VGA with headset
- An Intel® Link Support for the most immersive gaming experience.
- Supports Intel® Core™ i7-4770K
- PCH-Gen 3000 Standards support, improved wireless and render capabilities for enhanced gaming experience.
- 3.5" & 5.25 Drive bays & WiFi 7 technology - Gaming experience with no delay.
- NVIDIA SLI-enabled for gamers, personalized with Studio Driver and exclusive tools.

- 2 x USB 3.0 SuperSpeed Port
- 3 x FireWire 1394a 800 Port
- 2 x eSATA 3.0 SuperSpeed Port
- 1 x FireWire 1394b 400 Port (IEEE 1394)
- 2 x eSATA™ / Supports RAID0/RAID1 as specified in option 1
- 1 x FireWire 1394b 400 Port (IEEE 1394)
- 3 x Audio Jacks (1 x 5.1)
- 2 x SPDIF (S/PDIF) x 1 USB 2.0 Type A 1 x USB 3.0 Type A 2.0 Type A 2.0 Type A
- 2 x USB 3.0 Type A 2.0 Type A 2.0 Type A 2.0 Type A 2.0 Type A 2.0 Type A
- 1 x eSATA™ / 2 x eSATA™ as specified in option 1
- 1 x FireWire 1394b 400 Port
- 1 x Kensington Lock

[\[pdf\]](#) User Manual Specifications

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PATH TO THE FUTURE DESKTOP MEG Trident X2 14th MEG TRIDENT X2

14NUI9-276AT MSIs neues Flaggschiff ... 2/2 2/2 0 Realtek ALC897 7.1 Channel HD

Audio 1x Intel I225-V 1x Intel I219-V Wi-Fi 7 BT 5.4 INTEL/**BE200.NGWG.NV** 2 1 1 1

1 3 4 2 2 1x v2.1 1 5 1 1000W 80plus Gold ATX POWER SUPPLY 2025-06-16

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PATH TO THE FUTURE

MSI new flagship model for card gamers, the MEG Trident X 420 gaming desktop, features an advanced 12th Gen Intel® Core™ i5 processor, a custom RGB lighting system and adjustable performance, it can even control the 12th Gen Intel® Core™ i5 processor. The MEG Trident X is powered by the high-end Intel® Core™ i5 processor and RTX 4060 graphics card (all-in-one design). Thanks to the unique fan cooling and the Barbell design of the 12th Gen Intel® Core™ i5 processor, the MEG Trident X can maintain low temperatures and noise levels will be maintained at an optimum level to provide gamers with the best gaming experience.



Picture and logos

SELLING POINTS

- Windows 11 Pro
- 12th Gen Intel® Core™ i5 processor 12600K
- Up to MEG Delta RTX™ 4060 graphics card (all-in-one)
- AI Gaming Cockpit: AI-driven enhancements in cooling, gaming and game streaming
- Up to 32GB DDR5 - Quickly and effortlessly boost your gaming leader
- Smart Storage Cockpit: 3 - Optimize storage with automatic scaling and design
- AI Game AI Assistant: Efficiently manage your gaming data
- AI Barbell design: Concentrates the cold air to help gamers absorb the cold air to enhance heat dissipation
- MSI Mystic Light RGB with hardware
- Instant RGB memory with gaming experience
- Support for PCIe 5.0 M.2 SSDs
- PCIe Gen 5.0 M.2 SSDs support, improved wireless and mobile applications for enhanced gaming experience
- 2.5G + 10G LAN & Wi-Fi 7 technology - Gaming experience with no delay
- NVIDIA Studio-validated for creators, professional and business users and exclusive tools.

- 1. 2 x USB 3.2 Gen 1 Type A
- 2. 1x USB-C 1 x Thunderbolt 4
- 3. 1x USB 3.2 Gen 1 (Type-C) (Support 10W)
- 4. 2x USB SuperSpeed USB 20Gbps Type-A
- 5. 1x DisplayPort 1.4
- 6. 4x Variable Refresh Rate (supported in HDMI 2.1)
- 7. 2x Audio Jacks 1 x 5.0/7.1
- 8. 1x SPDIF (S/PDIF) 1 x USB 3.2 Gen 1 Type-A 1 x USB 3.2 Gen 1 Type-C
- 9. 2x HDMI 2.1
- 10. 1x Thunderbolt 4
- 11. 2x USB 3.2 Gen 1 Type-A 2 x USB 3.2 Gen 1 Type-A
- 12. 1x eSATA™ 1 x 25-pin SATA
- 13. Support RAID0/10
- 14. 1x PS/2 1 x USB 2.0 Type-A
- 15. 1x Kensington Lock

[\[pdf\]](#) Specifications

MEG Trident X2 14th 14NUG7 270UK storage asset msi specSheet uk desktop |||

PATH TO THE FUTURE DESKTOP MEG Trident X2 14th MEG TRIDENT X2

14NUG7-270UK MSI s new flagship mode ... EN4x4 NVMe M.2-2280 M-KEY 3/2 N/A

N/A N/A 2/2 2/2 N/A N/A N/A 1x Intel I225-V 1x Intel I219-V INTEL/**BE200.NGWG.NV**

Wi-Fi 7 BT 5.4 Realtek ALC897 7.1 Channel HD Audio 2 1 1 1 1 3 4 2 2 1x v2.1 1 5 1

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14NUI9-265EU MSI s new flagship mo ... 2/2 2/1 0 Realtek ALC897 7.1 Channel HD

Audio 1x Intel I225-V 1x Intel I219-V Wi-Fi 7 BT 5.4 INTEL/**BE200.NGWG.NV** 2 1 1 1

1 3 4 2 2 1x v.2.1 1 5 1 1000W 80plus Gold ATX POWER SUPPLY 2025-03-08

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