



QUADRO RTX 8000

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Product Specification

DOCUMENT CHANGE HISTORY

SP-09320-001_v02

| Version | Date | Authors | Description of Change |
|---------|-------------------|---------|--|
| 01 | December 10, 2018 | MV, SM | Initial Release |
| 02 | January 28, 2019 | MV, SM | <ul style="list-style-type: none">• Added section on CLKREQ# signal• Updated display configuration information (Table 4)• Added MTBF data (Table 5)• Added Energy Regulation information (Table 11) |

TABLE OF CONTENTS

| | |
|--|-----------|
| Overview | 1 |
| Attachments | 2 |
| Specifications..... | 4 |
| Product Specifications | 4 |
| Thermal Specifications..... | 7 |
| Power and Electrical Specifications | 7 |
| Input Rail Specifications | 7 |
| Power Brake | 10 |
| CLKREQ#..... | 10 |
| Acoustic Specifications..... | 11 |
| Product Features | 12 |
| Form Factor..... | 12 |
| Placement of Standard I/O Connectors..... | 13 |
| NVLink and Power Connector Placement | 14 |
| Power Connector Placement | 15 |
| Extenders | 15 |
| Support Information..... | 17 |
| Certifications | 17 |
| Agencies..... | 17 |
| Languages | 18 |

LIST OF FIGURES

| | |
|--|----|
| Figure 1. Quadro RTX 8000 Board | 2 |
| Figure 2. Access to PDF Attachments | 3 |
| Figure 3. Quadro RTX 8000 Board Dimensions | 12 |
| Figure 4. Standard Connector Placement | 13 |
| Figure 5. Optional 3D Bracket..... | 14 |
| Figure 6. Top View: NVLink, Sync, Stereo and Power Connector Placement | 14 |
| Figure 7. PCIe 8-Pin and 6-Pin Power Connectors..... | 15 |
| Figure 8. Long Offset Extender | 16 |
| Figure 9. Straight Extender..... | 16 |

LIST OF TABLES

| | |
|--|----|
| Table 1. Product Specifications | 4 |
| Table 2. Memory Specifications | 5 |
| Table 3. Software Specifications..... | 5 |
| Table 4. Display Specifications..... | 6 |
| Table 5. Board Environmental and Reliability Specifications..... | 7 |
| Table 6. Thermal Specifications | 7 |
| Table 7. Input Voltage Specifications | 8 |
| Table 8. Input EDP Continuous Specifications | 8 |
| Table 9. Input EDP Peak Specifications | 9 |
| Table 10. Power Management Specifications..... | 9 |
| Table 11. Energy Regulations | 9 |
| Table 12. Power Brake Specifications | 10 |
| Table 13. Acoustic Specifications | 11 |
| Table 14. Supported SYNC Configurations | 15 |
| Table 15. Languages Supported | 18 |

OVERVIEW

The NVIDIA® Quadro RTX™ 8000 card is a dual-slot, 10.5 inch PCI Express Gen3 graphics solution based on the state-of-the-art NVIDIA Turing™ architecture. It is an actively cooled board capable of 295 W maximum board power.

Based on the ground-breaking NVIDIA Turing graphics processing unit (GPU) architecture, Quadro RTX 8000 delivers hardware-accelerated ray tracing, revolutionary AI features, advanced shading and powerful simulation capabilities to creative professionals. With the industry's most expansive graphics memory footprint comprised of 48 GB of GDDR6 memory (expandable to 96 GB with NVIDIA® NVLink®), Quadro RTX 8000 enables the most graphics-intensive applications run with the highest level of user experience, even with largest of data sets.

In addition, Quadro RTX 8000 incorporates the new industry-standard VirtualLink connector to simplify the deployment of Enterprise VR experiences with headroom to handle future Head Mounted Displays with up to twice the resolution of today's top-of-the-line headsets.

For general design and system qualification guidance, refer to the *System Design Guide for NVIDIA Enterprise GPU Products* (DG-07562-001), v08 or later.

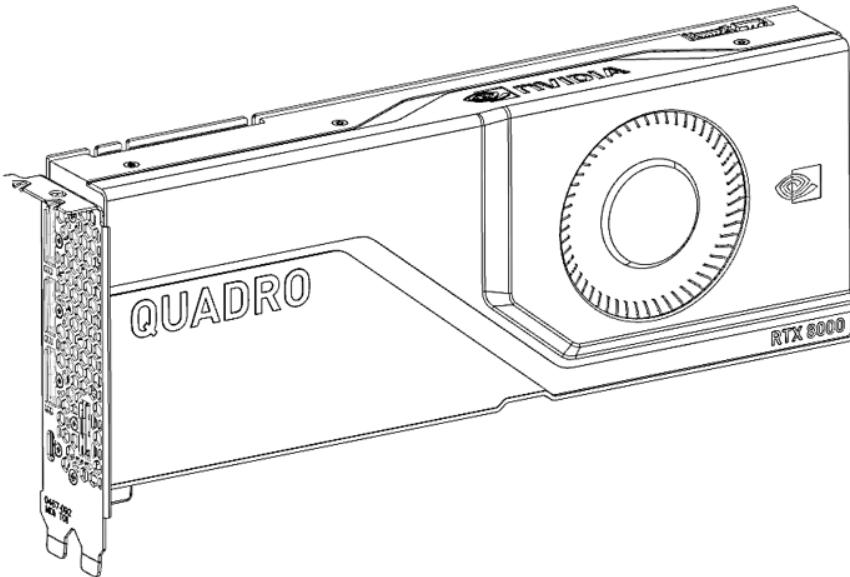


Figure 1. Quadro RTX 8000 Board

ATTACHMENTS

The following files are attached to this board specification:

- ▶ *Quadro RTX 8000 3D Model*
- ▶ *Quadro RTX 8000 2D Drawing*
- ▶ *Long Offset Extender 3D Model*
- ▶ *Long Offset Extender 2D Drawing*
- ▶ *Straight Extender 3D Model*
- ▶ *Straight Extender 2D Drawing*



Note: The 3D Model file is a mechanical 3D model (STP file) of the fully assembled graphics card, with extenders. The components of the model may be separated visually (translated along x, y, and z axes) or rendered visible or invisible, using appropriate viewing software.

The 2D drawing is a PDF file illustrating the dimensions of the graphics card or extenders.

To access the attached files, click the **Attachment** icon on the left-hand toolbar on this PDF (using Adobe Acrobat Reader or Adobe Acrobat). Select the file and use the Tool Bar options (**Open**, **Save**) to retrieve the documents. Files with the .nvzip extension can be extracted using 7-Zip file archive software or may be renamed to .zip and extracted with other archive software.

Figure 2 shows how to get access to the attachments of this PDF file.

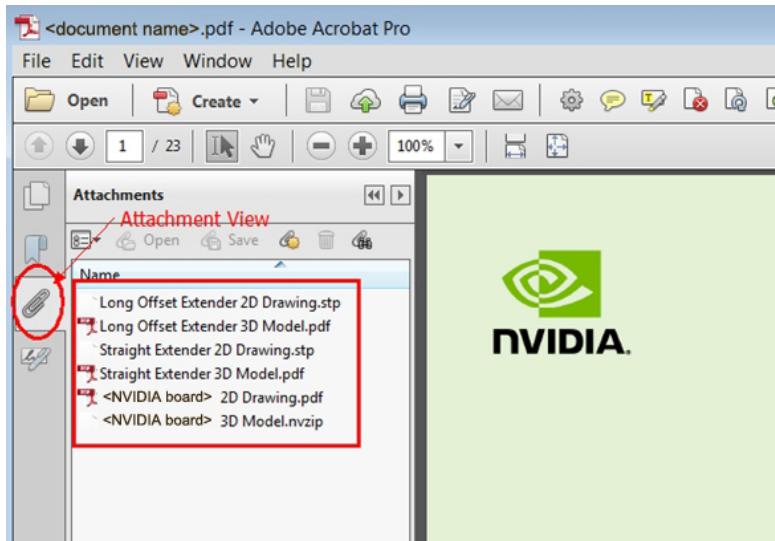


Figure 2. Access to PDF Attachments

SPECIFICATIONS

PRODUCT SPECIFICATIONS

Table 1 provides the product specifications for the Quadro RTX 8000 board product.

Table 1. Product Specifications

| Specification | | Description |
|---|-------------|--|
| Product SKUs | | PG150 SKU 500 NVPN: 699-5G150-0500-xxx |
| Total graphics power (TGP) ¹ | | 260 W |
| Total board power (includes USB-C) ² | | 295 W |
| GPU SKUs | | TU102-875-A1 |
| PCI IDs | | Device ID: 0x1E30 Vendor ID: 0x10DE Sub-Vendor ID: 0x10DE Sub-System ID: 0x129E |
| GPU clocks | Base | 1395 MHz |
| | Boost | 1770 MHz |
| VBIOS | EEPROM size | 8 Mbit |
| | UEFI | Supported |
| PCI Express interface | | PCI Express 3.0 ×16 |
| Physical dimensions | | NVIDIA Form Factor 4.0 compliant |
| Display connectors | | Four VESA® DisplayPort® connectors One USB-C connector |
| Power connectors and headers | | PCIe power connectors: •One 8-pin •One 6-pin |

| Specification | | Description |
|---------------|----------------------|-------------|
| Weight | Board | 977 Grams |
| | Long offset extender | 64 Grams |
| | Straight extender | 39 Grams |

Notes:

¹Total graphics power (TGP) is the maximum graphics power specified for the NVIDIA® Quadro® board.

²Total board power is the sum of TGP and the power required for the USB-C connector.

Table 2 provides the memory specifications for the Quadro RTX 8000 board.

Table 2. Memory Specifications

| Specification | Description |
|-----------------------|----------------|
| Maximum memory clock | 7001 MHz |
| Memory size | 48 GB |
| Memory bus width | 384 bits |
| Peak Memory bandwidth | Up to 672 GB/s |

Table 3 provides the software specifications.

Table 3. Software Specifications

| Specification | Description |
|-----------------------------------|---|
| Bar address | BAR0: 16 MB BAR1: 256 MB BAR3: 32 MB I/O BAR: 4 KB |
| PCI class code | 0x03 - Display Controller |
| PCI sub-class code | 0x00 - VGA-Compatible Controller |
| ECC support | Support configurable (disabled by default) |
| SR-IOV | Not supported |
| SMBus (8-bit address) | 0x9E (write), 0x9F (read) |
| SMBus direct access | Supported |
| SMBPBI (SMBus Post Box Interface) | Supported |
| HDCP support | 2.2 |

Table 4 provides the display specifications.

Table 4. Display Specifications

| Specifications | Description |
|-------------------------------|--|
| DisplayPort 1.4a ¹ | <p>Maximum pixel clock²: Up to 2660 MPixels per second Maximum raw bandwidth³: 32.4 Gbps</p> <p>Example of maximum resolutions with CVT-RB timings:</p> <ul style="list-style-type: none"> • 7680 × 4320 × 24 bpp at 120Hz⁴ • 7680 × 4320 × 24 bpp at 60Hz⁵ • 7680 × 4320 × 36 bpp at 60Hz⁶ • 5120 × 3200 × 24 bpp at 60Hz⁷ • 5120 × 2880 × 24 bpp at 60Hz⁷ |
| USB-C ⁸ | <p>USB-C port has the display capabilities of a DP 1.4a port.</p> <p>A USB-C-to-DP dongle can be used with this port.</p> <p>Port also provides the following capabilities:</p> <ul style="list-style-type: none"> • VirtualLink support • USB 3.1 Gen2 SuperSpeed (10 Gbps) support • USB 2.0 support |
| Simultaneous display support | Up to four simultaneous displays |

Notes:

¹DisplayPort 1.2 Certified, DisplayPort 1.3/1.4 Ready.

²Depending on GPU resources applied to the port.

³Maximum raw bandwidth represents the raw bandwidth of four lanes of HBR3.

⁴Requires two DisplayPort 1.4a links and DSC compression.

⁵Requires either a single DisplayPort 1.4a link with DSC compression or two DP links with no compression.

⁶Using DSC compression.

⁷Uncompressed.

⁸Full USB-C capability (data, display, HMD) requires Windows 10 Version 1803 (RS4) or later; with Windows 10 Version 1709 (RS3) and earlier, USB-C port only supports display output (no USB data).

Table 5 provides the environment conditions specifications for the Quadro RTX 8000 graphics board.

Table 5. Board Environmental and Reliability Specifications

| Specification | Condition |
|-----------------------------------|--|
| Operating temperature | 0 °C to 45 °C |
| Storage temperature | -40 °C to 75 °C |
| Operating humidity | 5% to 95% relative humidity |
| Storage humidity | 5% to 95% relative humidity |
| Mean time between failures (MTBF) | Uncontrolled environment: 451164 hours at 35 °C Controlled environment: 749249 hours at 35 °C |

THERMAL SPECIFICATIONS

Table 6 provides the thermal specifications for the NVIDIA Quadro RTX 8000.

Table 6. Thermal Specifications

| Parameter | Value | Units |
|---|-------|-------|
| Total graphics power (TGP) | 260 | W |
| GPU shutdown temperature | 94 | °C |
| GPU slowdown temperature (50% clock slowdown) | 91 | °C |
| GPU target temperature | 84 | °C |
| GPU maximum operating temperature | 89 | °C |
| Maximum fan inlet temperature | 45 | °C |

POWER AND ELECTRICAL SPECIFICATIONS

Input Rail Specifications

The following tables summarize the electrical specifications for the Quadro RTX 8000.

The input voltage measured at the connectors should never exceed the voltage range defined in the Table 7.

Table 7. Input Voltage Specifications

| Input Rails | Minimum | Nominal | Maximum |
|---|----------------|----------------|----------------|
| PCI Express edge connector (12V) | 11.04V | 12V | 12.96V |
| PCI Express 8-pin power connector (12V) | 11.04V | 12V | 12.96V |
| PCI Express 6-pin power connector (12V) | 11.04V | 12V | 12.96V |
| PCI Express edge connector (3V3) | 3.0V | 3.3V | 3.6V |

Note: The minimum to maximum range includes DC level and any noise or other transients; ensure that the input rails remain within the specified range at all times.

Table 8 provides the Input EDP Continuous specifications for the Quadro RTX 8000 input rails. The Input EDP Continuous current is specified over a 1-second time scale. The peak input power over a 1-second moving average will not exceed the specified Input EDP Continuous value.

Table 8. Input EDP Continuous Specifications

| Input Rails | Maximum Value | Moving Average |
|----------------------------------|----------------------|-----------------------|
| PCI Express edge connector (12V) | 66 W | 1 s |
| | 5.5 A ¹ | 1 s |
| PCIe 8-pin power connector (12V) | 175 W | 1 s |
| | 14.58 A ¹ | 1 s |
| PCIe 6-pin power connector (12V) | 87 W | 1 s |
| | 7.25 A ¹ | 1 s |
| PCI Express edge connector (3V3) | 10 W | 1 s |
| | 3 A | 1 s |
| Total graphic power ² | 260 W | 1 s |

Notes:

¹Maximum current specifications are based on nominal voltages.

²Individual rails are specified at their absolute maximum values, but the total power consumption of the board during operation will never exceed the specified total graphics power.

Table 9 provides the Input EDP Peak (EDPp) specifications for the Quadro RTX 8000 12V input power rails. Input EDP Peak values are specified over 200 us, 1 ms, and 5 ms moving averages. For a given power connector, the peak input current over each moving average will not exceed the specified Input EDP Peak value. Table 9 also provides the total input EDPp specification for all input power sources, which will never be exceeded.

Table 9. Input EDP Peak Specifications

| Specification | Maximum Value ¹ | | |
|----------------------------------|----------------------------|--------|-------------------|
| | 200 us | 1 ms | 5 ms ² |
| PCI Express edge connector (12V) | 14.8 A | 13.3 A | 12.5 A |
| PCIe 8-pin power connector (12V) | 35.7 A | 25.5 A | 20.2 A |
| PCIe 6-pin power connector (12V) | 16.4 A | 14.5 A | 13.6 A |
| Total (12V) ³ | 54.0 A | 48.3 A | 45.3 A |

Notes:

¹Maximum current specifications are based on nominal voltages.

²The 5 ms moving average current can be sustained for up to 50 ms.

³For any time scale, the total EDPP specification may be less than the sum of the individual power connector EDPP values.

Table 10 provides the power management specifications.

Table 10. Power Management Specifications

| Parameter | Value | Units |
|--|-------|-------|
| Power capping threshold for TGP | 260 | W |
| Power capping response time ¹ (typical) | 50 | ms |
| Power capping response time ¹ (maximum) | 100 | ms |

Note:

¹This is the length of time required to return peak power excursions to TGP power capping threshold.

Table 11 provides the Energy Star report for the Quadro RTX 8000 graphics board.

Table 11. Energy Regulations

| Specification | Description |
|--|---------------|
| Version | Energy Star 6 |
| Result | PASS |
| Maximum power to idle power ratio: ASPM OFF | 14 |
| Short idle power: Display ON (1080p), ASPM OFF | 14.75 W |
| Long idle power: Display OFF, ASPM OFF | 12.75 W |
| Maximum power: ASPM OFF | 259.8 W |

Note: Parameter values in this table are acquired using workloads, conditions and procedures defined by Energy Star v6.

Power Brake

The Power Brake feature allows the system to trigger hardware slowdown in the GPU with the external input. For example, the system can assert Power Brake during an emergency power or thermal event. Note that the Power Brake should not be used as a way to dynamically control the power consumption of the GPU. That is, Power Brake is intended for emergency power reduction purposes only.

The system can assert Power Brake signal (PB#) via Pin B30 on the PCIe edge connector. The typical response time as seen at the system power supplies after assertion is noted in Table 12. In addition, system designs must keep Power Brake asserted for a minimum duration listed in Table 12.

Table 12. Power Brake Specifications

| Parameter | Value |
|--|--------|
| PB# PCIe pin assignment | B30 |
| Power Brake response time (typical) | 150 µs |
| PB# input assertion low time (minimum) | 250 ms |
| Power Brake hardware slowdown factor | 4 × |

CLKREQ#

The Quadro RTX 8000 outputs the PCIe Clock Request (CLKREQ#) signal on PCIe Pin B12 to signal to the host when the PCIe reference clock (REFCLK) is needed.

The Quadro RTX 8000 asserts CLKREQ# low during normal operation when the PCIe REFCLK is needed. The Quadro RTX 8000 deasserts CLKREQ# high when it enters a low power state and the PCIe REFCLK is not needed and asserts CLKREQ# low when exiting a low power state.



Note: PCIe pins B12 and B30 should not be connected together on the host side of the PCIe connector.

ACOUSTIC SPECIFICATIONS

Table 13 provides the acoustic specifications for the Quadro RTX 8000 graphics board.

Table 13. Acoustic Specifications

| Test Condition | Specification |
|----------------|----------------|
| Idle | 26 dBA maximum |
| TDP room | 36 dBA maximum |
| TDP maximum | 47 dBA maximum |

PRODUCT FEATURES

FORM FACTOR

The Quadro RTX 8000 conforms to the NVIDIA Form Factor 4.0 specification for Quadro products. See that specification for dimensions and other form factor information.

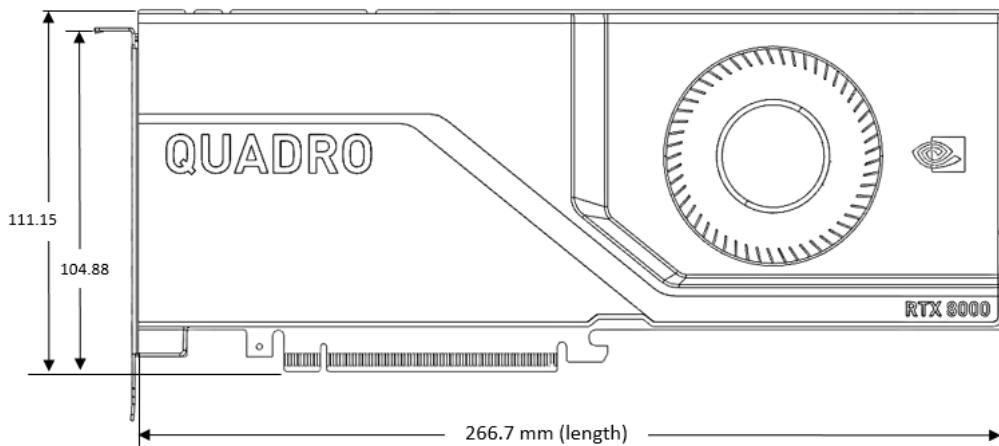


Figure 3. Quadro RTX 8000 Board Dimensions

PLACEMENT OF STANDARD I/O CONNECTORS

Figure 4 shows the standard placement of the I/O connectors for the Quadro RTX 8000 graphics board.

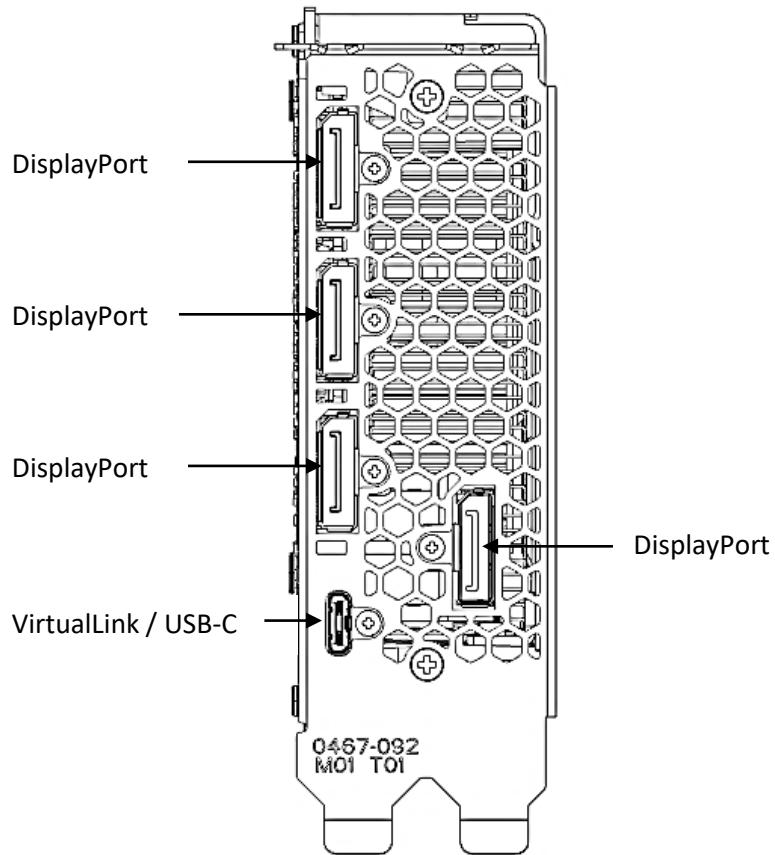


Figure 4. Standard Connector Placement

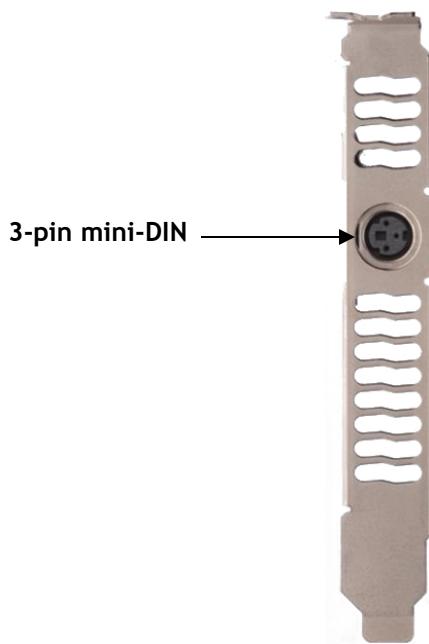


Figure 5. Optional 3D Bracket

NVLink and Power Connector Placement

Figure 6 shows the connectors for the NVIDIA® SLI® bridge and power on the Quadro RTX 8000 graphics board.

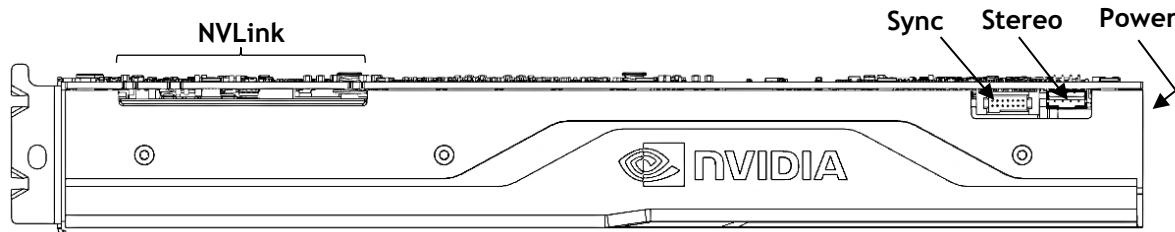


Figure 6. Top View: NVLink, Sync, Stereo and Power Connector Placement

The Quadro RTX 8000 supports the following high bandwidth NVLink bridges:

- ▶ 2-slot span NVLink bridge
- ▶ 3-slot span NVLink bridge

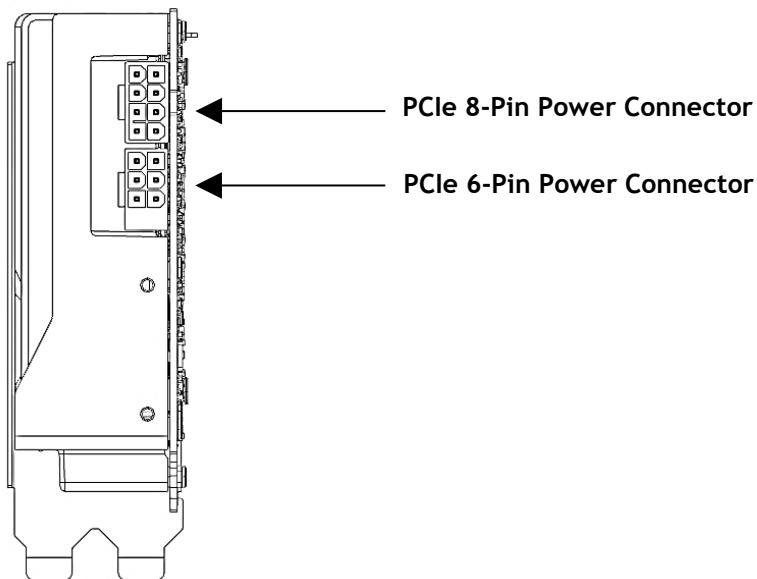
Table 14 presents the supported Sync configurations for the Quadro RTX 8000 graphics board.

Table 14. Supported SYNC Configurations

| Configuration | Supported |
|---|-----------|
| Frame lock cable on Sync connector with NVIDIA Quadro Sync II board | Yes |
| Frame lock cable on Sync connector without Quadro Sync II board | No |
| Quadro high-bandwidth NVLink bridge (2-slot span) on NVLink connector | Yes |
| Quadro high-bandwidth NVLink bridge (3-slot span) on NVLink connector | Yes |

POWER CONNECTOR PLACEMENT

The Quadro RTX 8000 board provides a PCIe 8-pin power connector and a PCIe 6-pin power connector on the East edge of the board. Power must be applied to both connectors.

**Figure 7. PCIe 8-Pin and 6-Pin Power Connectors**

EXTENDERS

The Quadro RTX 8000 provides two extender options:

- ▶ NVPN: 682-00003-5555-006 – Long offset extender (Figure 8)
 - Card + extender = 339 mm
- ▶ NVPN: 682-00003-5555-007 – Straight extender (Figure 9)
 - Card + extender = 312 mm

Using the standard NVIDIA extender ensures greatest forward compatibility with future NVIDIA product offerings.

If the standard extender will not work, OEMs may design a custom attach method using the extender mounting holes on the heat sink baseplate. The extender mounting holes may vary among NVIDIA products, so designing for flexibility is recommended.

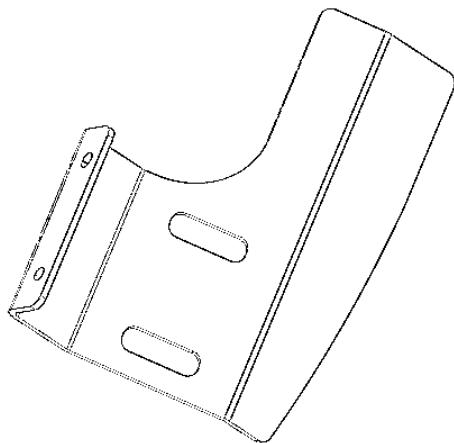


Figure 8. Long Offset Extender

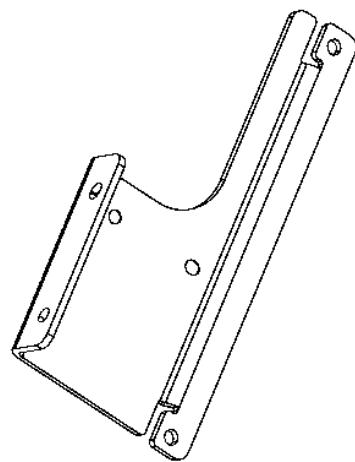


Figure 9. Straight Extender

SUPPORT INFORMATION

CERTIFICATIONS

- ▶ Windows Hardware Quality Lab (WHQL):
 - Certified Windows 7, Windows 10
- ▶ Ergonomic requirements for office work W/VDTs (ISO 9241)
- ▶ EU Reduction of Hazardous Substances (EU RoHS)
- ▶ Joint Industry guide (J-STD) / Registration, Evaluation, Authorization, and Restriction of Chemical Substance (EU) – (JIG / REACH)
- ▶ Halogen Free (HF)
- ▶ EU Waste Electrical and Electronic Equipment (WEEE)



Note: Windows 7 and Windows 10 require a digital signature to ship.

AGENCIES

- ▶ Australian Communications and Media Authority and New Zealand Radio Spectrum Management (RCM)
- ▶ Bureau of Standards, Metrology, and Inspection (BSMI)
- ▶ Conformité Européenne (CE)
- ▶ Federal Communications Commission (FCC)
- ▶ Industry Canada - Interference-Causing Equipment Standard (ICES)
- ▶ Korean Communications Commission (KCC)
- ▶ Underwriters Laboratories (cUL, UL)
- ▶ Voluntary Control Council for Interference (VCCI)

LANGUAGES

Table 15. Languages Supported

| Languages | Windows 7 | Windows 10 | Linux |
|-------------------------------|-----------|------------|-------|
| English (US) | Yes | Yes | Yes |
| English (UK) | Yes | Yes | Yes |
| Arabic | Yes | Yes | Yes |
| Chinese, Simplified | Yes | Yes | Yes |
| Chinese, Traditional | Yes | Yes | Yes |
| Czech | Yes | Yes | Yes |
| Danish | Yes | Yes | Yes |
| Dutch | Yes | Yes | Yes |
| Finnish | Yes | Yes | Yes |
| French (European) | Yes | Yes | Yes |
| German | Yes | Yes | Yes |
| Greek | Yes | Yes | Yes |
| Hebrew | Yes | Yes | Yes |
| Hungarian | Yes | Yes | Yes |
| Italian | Yes | Yes | Yes |
| Japanese | Yes | Yes | Yes |
| Korean | Yes | Yes | Yes |
| Norwegian | Yes | Yes | Yes |
| Polish | Yes | Yes | Yes |
| Portuguese (Brazil) | Yes | Yes | Yes |
| Portuguese (European/Iberian) | Yes | Yes | Yes |
| Russian | Yes | Yes | Yes |
| Slovak | Yes | Yes | Yes |
| Slovenian | Yes | Yes | Yes |
| Spanish (European) | Yes | Yes | Yes |
| Spanish (Latin America) | Yes | Yes | Yes |
| Swedish | Yes | Yes | Yes |
| Thai | Yes | Yes | Yes |
| Turkish | Yes | Yes | Yes |

Note:

¹Microsoft Windows 7, Windows 10, and Linux are supported.

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