



**AMULET
HOTKEY**

DXP4

Remote Workstation Graphics Card

The Amulet Hotkey DXP4 is a quad-display, remote workstation graphics card that combines two cards into the space of one: Professional Graphics and PCoIP Remote Workstation.

The DXP4 enables high-performance and secure remote access for any PC or workstation that has an available PCIe slot.

Whether enabling remote access for a desk-side workstation, or centralizing the workstation in a secure datacenter, the DXP4 supports flexible workstyles. Working from home, on the road, or securely accessing global talent.

Professionals can connect to their workstation using an Amulet Hotkey zero client or mobile device from across the office, country, or from continent-to-continent.

To support a range of workstation users and applications, the DXP4 provides professional graphics options including NVIDIA Quadro and AMD FirePro GPUs. Combined with the Teradici Tera2 PCoIP processor, this delivers an exceptional experience for the most demanding users.

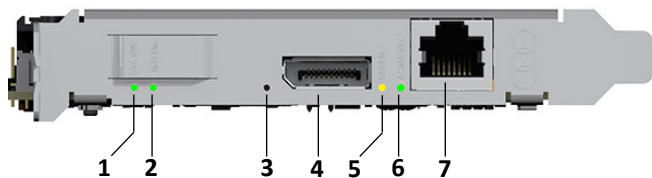
Benefits of the DXP4:

- **Flexibility:** supporting flexible workflows and mobile workstyles
- **Unique security:** including a separate protocol-only port for workstation access, hardware USB lockdown and NSA Suite B ciphers.
- **Enhanced productivity:** ensures that datasets stay within the datacenter to boost application performance and avoid the use of old data across teams.
- **Zero loading:** no load on the CPU or GPU for remote display protocol encoding
- **Octal+ displays:** use multiple DXP4 cards to support 8-display configurations.
- **Save PCIe slots:** combining two PCIe cards into one allows for more cards.

DXP4 and DXP4-M

The DXP4 model has an RJ45 network port. The DXP4-M accepts a copper or fiber SFP module.

An optional network extender card is available to provide external network access when the DXP4 card is installed in an internal-only PCIe slot.



Active Thermal Solution with local DisplayPort

- 1 Status LED. 2 Int Fn LED. 3 Recessed button - for local monitor. 4 DisplayPort.
5 Network speed LED. 6 Network activity LED. 7 Network port.

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Key Features

- Remote access solution combines a GPU and PCoIP remote workstation card into a single compact card
- Integrated professional graphics using NVIDIA Quadro or AMD FirePro GPUs
- Quad display up to 1920 x 1200 (Octal+ option)
- Dual display up to 2560 x 1600
- Performance for the most demanding professionals
- Hardware for rapid low-latency encoding
- Workstation BIOS/power control from the zero client on compatible machines
- Connect to workstation using secure Amulet Hotkey zero clients or software clients for mobile access
- Extender card available for Internal-only installation
- Active and Passive Thermal Solutions available to suit your host PC or server

Network Connection

- Choose between RJ45 port or SFP module. SFP modules are available separately
- Local, across country or continent-to-continent

Security

- Only display pixels are sent to the client
- Network interface for PCoIP remote display traffic only. Cannot be accessed from the host workstation
- Extensive security features such as 256-bit AES encryption and NSA Suite B ciphers

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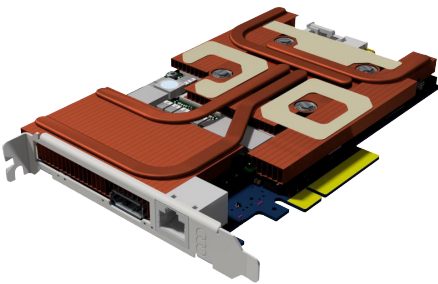
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Passive Thermal Solution (colours may vary)

teradici
PCoIP[®]



Towards greener computing

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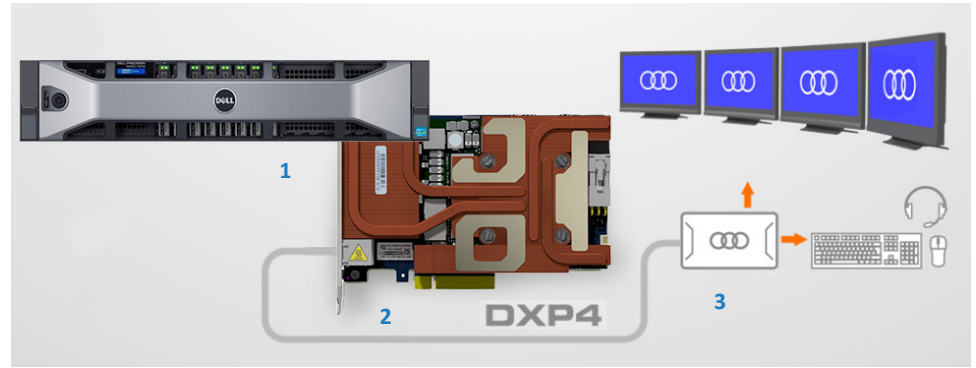
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DXP4 Datasheet DS-DXP4-0001 v1.4 September 2018

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Example quad head PCoIP system

A DXP4 card (1) on a host PC or server connects over a WAN (2) to a remote Amulet Hotkey zero client (3). At the desktop, the zero client decodes data sent from the DXP4 host and delivers it to the monitors and peripherals.



How does PCoIP work?

PCoIP compresses and securely encrypts the entire computing experience on a host PC. As the PCoIP host transmits 'pixels only' data across a standard IP network, actual data never leaves the host PC. PCoIP adapts to network conditions to minimize bandwidth, providing lossless, real time performance free from compromises.

DXP4 Remote Workstation Graphics Card Options

Use an Active Thermal Solution for fan-assisted self-cooling in PCs and servers. Use a Passive Thermal Solution in workstations or rack servers that already have an internal cooling system for PCIe cards.

| GPU Option | Video RAM (GDDR5) | Cores | Video Heads | Cooling |
|----------------------|-------------------|-----------------------|-------------|-------------------|
| NVIDIA Quadro M2200 | 4GB | 1024 CUDA processors | 4 | Passive |
| NVIDIA Quadro K2200M | 2GB | 640 CUDA processors | 4 | Active |
| AMD FirePro S4000X | 2GB | 640 Stream processors | 4 | Active or Passive |

DXP4 Card Specifications

| | | |
|------------------------------------|--|---|
| PCoIP processor | Teradici TERA 2240 PCoIP processor | |
| Form factor | Single slot PCIe full-height, half-length | |
| Bus type | PCIe x8 lane. Compatible with x8 to x16 slots, PCIe spec 1.0 or above | |
| Card type | Multi-function PCIe controller supporting Graphics, HD Audio, USB 2.0 OHCI and EHCI host controllers and HD audio | |
| Memory | 512MB DDR3 with ECC | |
| Local video output | DisplayPort (Active Thermal Solution only) to connect a local monitor | |
| Display | Single DXP4 card: | Two DXP4 cards in a system: |
| | <ul style="list-style-type: none"> Up to Dual 2560x1600 Up to Quad 1920x1200 | <ul style="list-style-type: none"> Up to Quad 2560x1600 Up to Octal 1920x1200 |
| Audio | 16-bit stereo audio, 48KHz sampling rate. Uses standard Windows/LINUX drivers | |
| Network | DXP4: RJ45 10/100/1000 DXP4-M: SFP slot for 100Mbit/s or 1Gbit/s copper or fibre modules ³ DXEC: Optional low profile PCIe network port extension card | |
| Encryption | 256-bit or 128-bit AES, NSA Suite B Ciphers. | |
| Connection broker | Supports direct connect and brokers such as Leostream and VMware Horizon. | |
| Client compatibility | PCoIP Zero Clients. Hardware for performance, software clients for mobility ¹ . | |
| Power consumption (Max. 20W) plus: | NVIDIA M2200² < 55W | NVIDIA Quadro K2200M² < 65W AMD FirePro S4000X² < 45W |
| Temperature range | Operating (PC internal ambient temp): 15° to 35°C (59° to 95°F) Storage: -10°C to 60°C (14° to 140°F) | |
| Weight | 350 g | |
| Compliance | Conforms to relevant parts of EN55024, EN55022 and FCC Part 15 | |

¹ - Contact Amulet Hotkey for more information.

² - See the Amulet Hotkey SFP Modules datasheet for more information

³ - GPU requires AUX power connection