

## Quick Start Guide

**!** For Health and safety information, refer to the sheet [LS-TEMP-0001](#).

The DXH4 is a quad video head PCoIP® host card that installs into a PCIe slot on a computer and connects to an Amulet Hotkey zero client over an IP network. See [Figure 1](#). One DXH4 card can support four 1920 x 1200 displays or two high resolution 2560 x 1600 displays. Cables take digital video output from the host graphics card(s) to four Mini DisplayPorts on the DXH4.

The standard DXH4 has an RJ45 network port. The DXH4-M has a network port designed to accept a copper or fiber SFP module (available separately).

**Note:** This guide uses 'DXH4' as a generic term when referring to both the standard DXH4 product and the DXH4-M product.

### Requirements

The DXH4 kit includes:

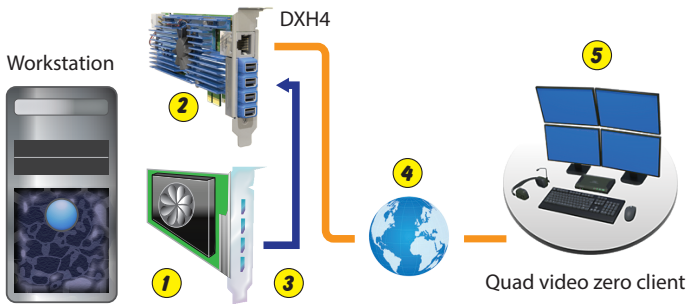
- DXH4 host card with a full-height or low profile I/O bracket fitted;
- Other size of I/O bracket;
- 4 x 400mm video cables, DisplayPort to MiniDP;
- Remote Power Control (RPC) cable assembly.

Graphics cards in the host computer must have digital video output. The DXH4 and DXH4-M can only accept video from a digital source.

**! Caution:** Only install and operate the DXH4 within an enclosed environment such as inside a PC or workstation.

**! Caution:** The DXH4 is not a 'hot-plug' device. Before you install or remove a DXH4 from the PCIe slot, disconnect all power from the host computer for at least 60 seconds. This allows the PC power rails to fully discharge.

### Example deployment in a PCoIP system



**Figure 1:** DisplayPort outputs on the system graphics card(s) (1) connect directly to up to four MiniDisplayPort inputs on the DXH4 (2) with the cables supplied (3). The DXH4 connects over a LAN/WAN (4) to a remote client (5).

### Before you start

- 1 Record the MAC address on the serial number label. You may need the MAC address when pairing the DXH4 to a zero client.  
*If your network uses DHCP, the DXH4 obtains its IP address from the DHCP server. If no DHCP server is available, the DXH4 times out after three minutes and adopts the default IP address 192.168.1.100.*
- 2 Confirm that the correct I/O bracket is fitted to the DXH4 card. A spare full-height or low-profile bracket are supplied with the DXH4.  
*See the DXH4 user manual for how to remove and replace the I/O bracket.*
- 3 Ensure that the host computer is turned off.
- 4 Unplug the power cable.



### Install the DXH4 or DXH4-M

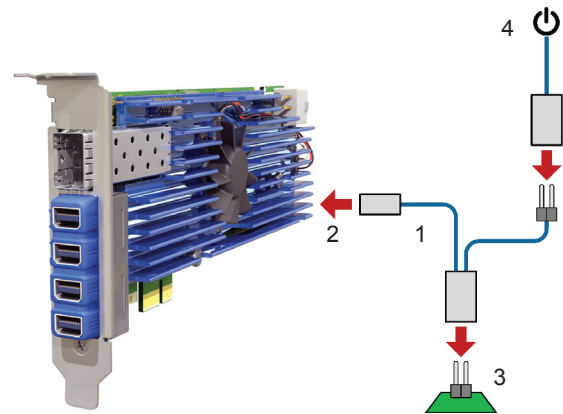
Always use appropriate anti-static handling procedures when handling the PCoIP host card or an opened computer.

- 1 Remove the chassis cover and locate an available PCIe slot.
- 2 Insert the DXH4 host card into the PCIe slot.
- 3 Secure the I/O bracket in place.
- 4 (DXH4-M only) Fit an SFP module into the DXH4-M network socket.

### Connect a Remote Power Cable (RPC) (optional)

Some workstations may require a RPC to implement remote power-cycling. Contact technical support to check your cable requirements. See [Figure 2](#).

- 1 Disconnect the existing power cable between the power button (4) and the motherboard (3).
- 2 Connect the RPC cable (1) between the RPC socket on the DXH4 (2) and the motherboard (3) and the PC power button (4).



**Figure 2:** 1. RPC assembly. 2. RPC socket on the DXH4-M 3. Motherboard power switch header on the host PC 4. Front panel power switch on the host

### Complete the installation

- 1 Connect a suitable network cable between the DXH4 and the PCoIP network.  
*For the best performance, use a network dedicated to PCoIP traffic.*
- 2 Connect the video outputs on the host computer graphics card(s) to the Mini DisplayPort video inputs on the DXH4.
- 3 Replace the chassis cover and reconnect the power cable.
- 4 Restart the host computer.  
*The operating system detects the DXH4 and locates the appropriate drivers.*

**Note:** See the DXH4 user manual to install dual DXH4s for an octal video configuration, or to install a network extender card.

## Connect a zero client to the DXH4

Several connection methods are supported. The default method is **Auto Detect**, but there are other methods such as **SLP Discovery** or **Direct to Host**.

You can also use a connection broker. See the *DXH4 user manual* for more details.

- 1 Make sure the remote Amulet Hotkey zero client is powered on.
- 2 Click **Connect** to start a PCoIP session with the zero client using the default connection method, or follow the steps in **Change the connection method**.

## Change the connection method (optional)

- 1 Select **Options** → **Configuration** from the Menu Bar.
- 2 Click **Unlock** and enter the default password **ahkdante**.  
*See the DXH4 user manual for how to change the default password.*
- 3 Select the **Session** tab and select the connection type required from the menu.
- 4 Click on **OK**.

## DHCP assignment

If your network uses DHCP, the DXH4 obtains its IP address from the DHCP server. If no DHCP server is available, the DXH4 times out after three minutes and adopts its default IP address of 192.168.1.100.

**! Caution:** *Change the default IP address as soon as possible.*

## Change the default IP address

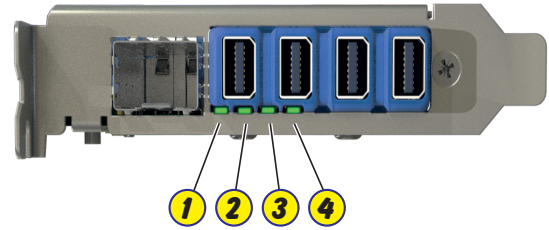
All DXH4 cards will revert to the same default IP address, this can cause conflicts as the network grows. Use the Administrative Web Interface (AWI) to assign a different static IP address than the default.

- 1 Enter the IP address of the DXH4 into your browser to access the AWI.
- 2 Enter the default password **ahkdante** and click **Log In**.
- 3 From the **Configuration** menu select the **Network** option.
- 4 Make sure the **Enable DHCP** option is unchecked.
- 5 Enter the new fall-back default IP address into the **IP Address** fields.
- 6 Make sure the **Enable DHCP** option is checked.

## Additional information

### LED indicators

*See the DXH4 User Manual for full LED descriptions.*



**Figure 3:** LED indicators

- 1 **Speed LED:** Network speed. Green 1 Gbit/s. Amber 100 Mbit/s.
- 2 **Activity LED:** Network activity and connection type. Also shows progress of firmware updates. Red flash, half duplex connection.
- 3 **Status LED:** Indicates the PCoIP link status. Blue - fibre link. Green - copper link. LED flashes if PCoIP link exists but not in session. Red flash, card error.
- 4 **INT FN LED:** Not used.

### DXH4 user manual

The *DXH4 user manual* and other product documentation are available on the Amulet Hotkey website. See the *DXH4 user manual* for more details about:

- **Internal card connections.** The DXH4 card has several internal sockets and jumpers, including an RPC socket, an inter-card connection, and a supplemental power socket.
- **Remote power cycling.** The DXH4 supports Wake-on-LAN and Remote Power Cycling (RPC), allowing users to wake up from standby or power down the host computer from a remote zero client.

*Because of SFP module power requirements, the DXH4-M does not support Wake-on-LAN on some PCs.*

- **Troubleshooting.** Refer to the manual if you have any display or connection issues, or contact Amulet Hotkey Technical Support.
- **Technical specifications.** Full details of the product specifications.

### Health and Safety (Refer also to the DXH4 manual [HB-DXH4-0002](#))

- This device complies with part 15 of the FCC Rules (Class B)
- Operating temperature range: 15° to 55° C (59° to 131° F)
- Operating humidity range: 10% to 80% (non-condensing)

For product documentation, downloads and technical assistance, visit:



For further information on all our products, visit [www.amulethotkey.com](http://www.amulethotkey.com).