Avocent® IPUHD 4K IP KVM Device

Quick Installation Guide for Configuration with a Vertiv™ Avocent® RM1048P Rack Manager

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NOTE: *These instructions are for configuring the Avocent IPUHD 4K IP KVM device with an Avocent RM1048P Rack Manager.*

For instructions on using the 4K IP KVM device powered by non-Vertiv PoE+ port devices or a Vertiv™ Avocent® IPPS power supply, see the pages following this one.

1. Powering the 4K IP KVM device

Use a CAT 5e or CAT 6 cable to connect the LAN 1 (PoE+) port of the 4K IP KVM device to one of the PoE+ ports on the rack manager.

The power LED blinks red when power is applied, then turns solid red or green to indicate it is ready for operation.

NOTE: *In this configuration, the 4K IP KVM device is powered using a PoE+ port connected to LAN 1. LAN 2 is not a PoE+ port and cannot be used to power the unit.*
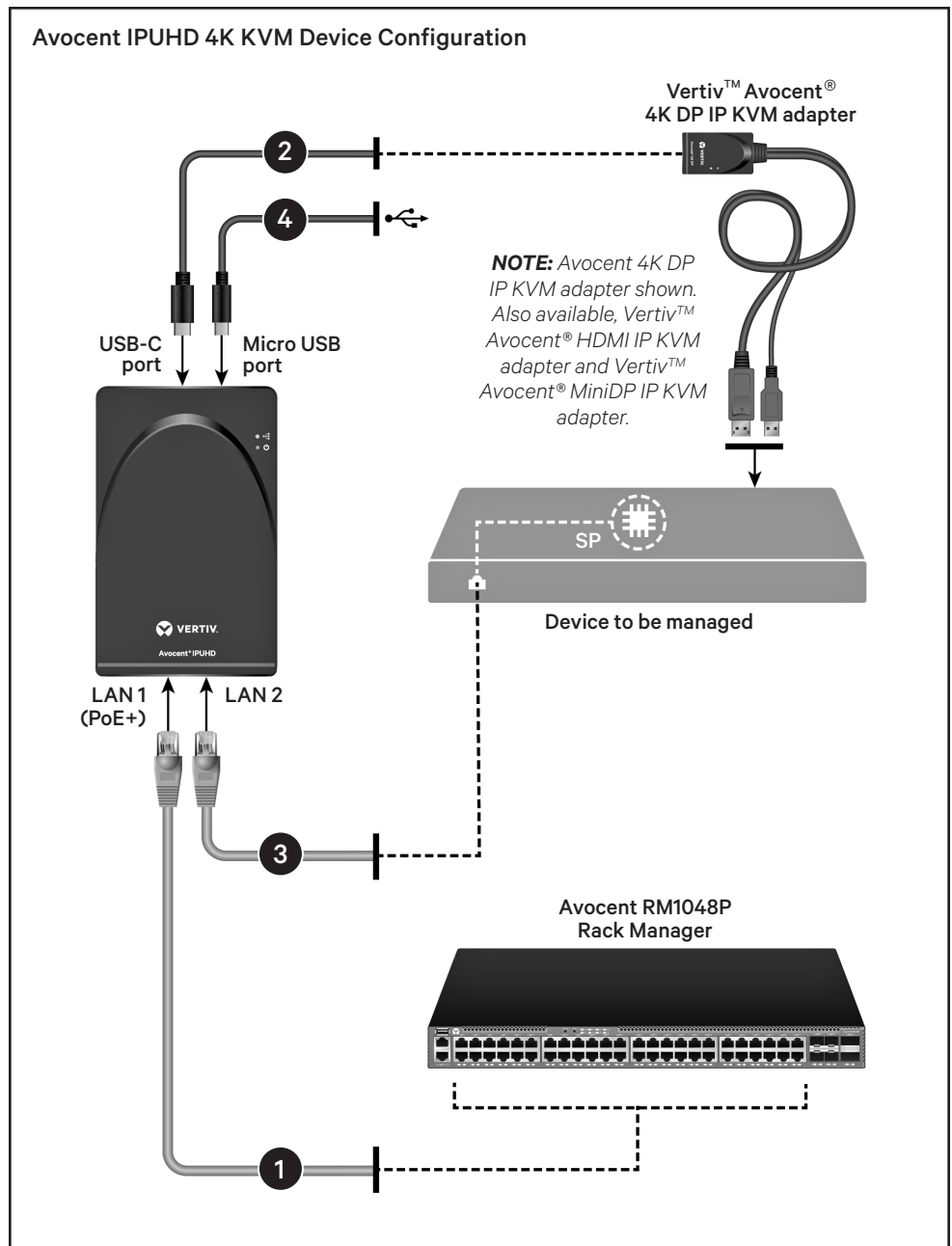
2. Connecting to the managed device

Use the provided USB-C cable to connect the USB-C port of the 4K IP KVM device directly to the managed device. If the device has no available USB-C port with DisplayPort alternative mode support, or if the USB-C port is unavailable, install a Vertiv™ Avocent® 4K IP KVM adapter with the appropriate video port cable connection to the device. Connect the USB-C cable from the 4K IP KVM device to the adapter's USB-C port.

NOTE: *Avocent 4K IP KVM adapter video cable connection options for DP, HDMI and MiniDP are available. Each adapter has a single USB Type A cable for keyboard/mouse control.*

3. Connecting to a device's service processor (optional)

Connect the LAN 2 port of the 4K IP KVM device to the network port on the service processor.

Avocent IPUHD 4K KVM Device Configuration

Vertiv™ Avocent® 4K DP IP KVM adapter

NOTE: *Avocent 4K DP IP KVM adapter shown. Also available, Vertiv™ Avocent® HDMI IP KVM adapter and Vertiv™ Avocent® MiniDP IP KVM adapter.*

USB-C port

Micro USB port

Device to be managed

LAN 1 (PoE+)   LAN 2

Avocent RM1048P Rack Manager

4. Connecting to a serial device (optional)

Use a Micro USB cable to connect the 4K IP KVM device to either a serial device or a USB-to-serial converter to manage the host.

NOTE: *In configurations with a rack manager, the 4K IP KVM devices are auto-discovered and require no additional first time setup.*

Avocent® IPUHD 4K IP KVM Device

Quick Installation Guide for Configuration
With Other Devices or Power Supplies

NOTE: *These instructions are for configuring an Avocent IPUHD 4K IP KVM device powered by either a Vertiv™ Avocent® IPPS power supply or by a device connected via a Power over Ethernet Plus (PoE+) port.*

1. Powering the 4K IP KVM device

The 4K IP KVM device may be powered by either an Avocent IPPS power supply or by connecting the 4K IP KVM device to a powered network switch (via a PoE+ port). If you are using a network switch to power your 4K IP KVM device, proceed to step 2.

To power the 4K IP KVM device with the Avocent IPPS power supply, insert the appropriate end of the power supply into the DC power port of the 4K IP KVM device and plug the other end into an appropriate power source. The power LED blinks red when power is applied, then turns solid red or green to indicate it is ready for operation.

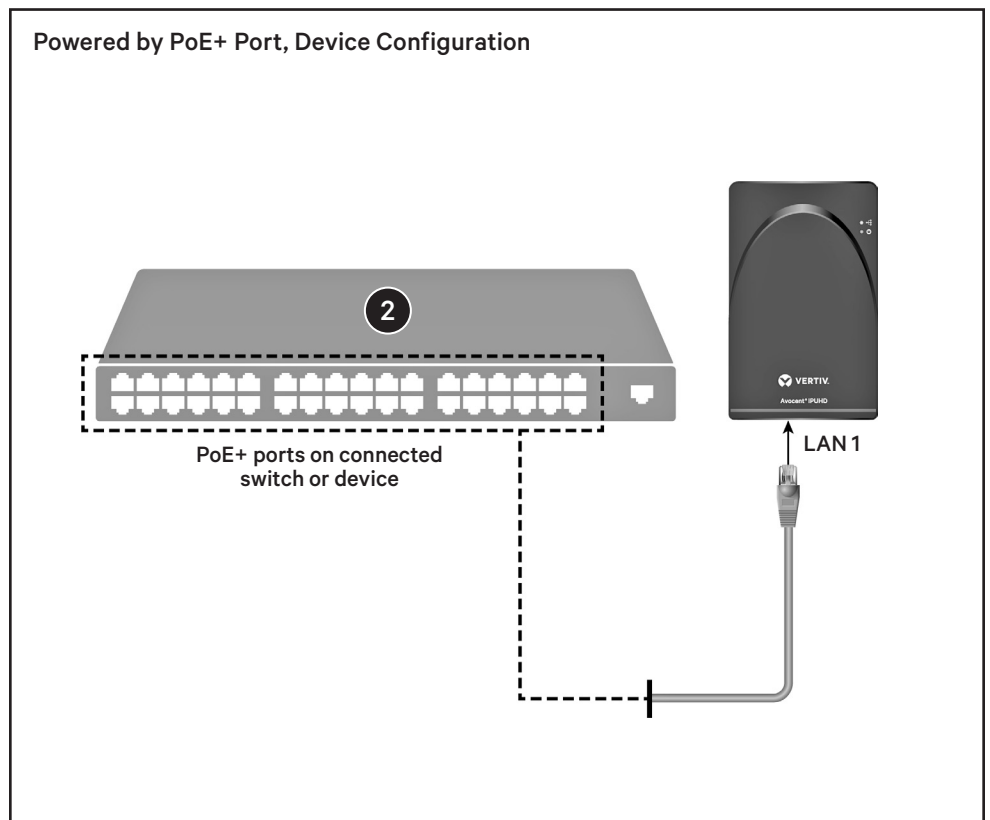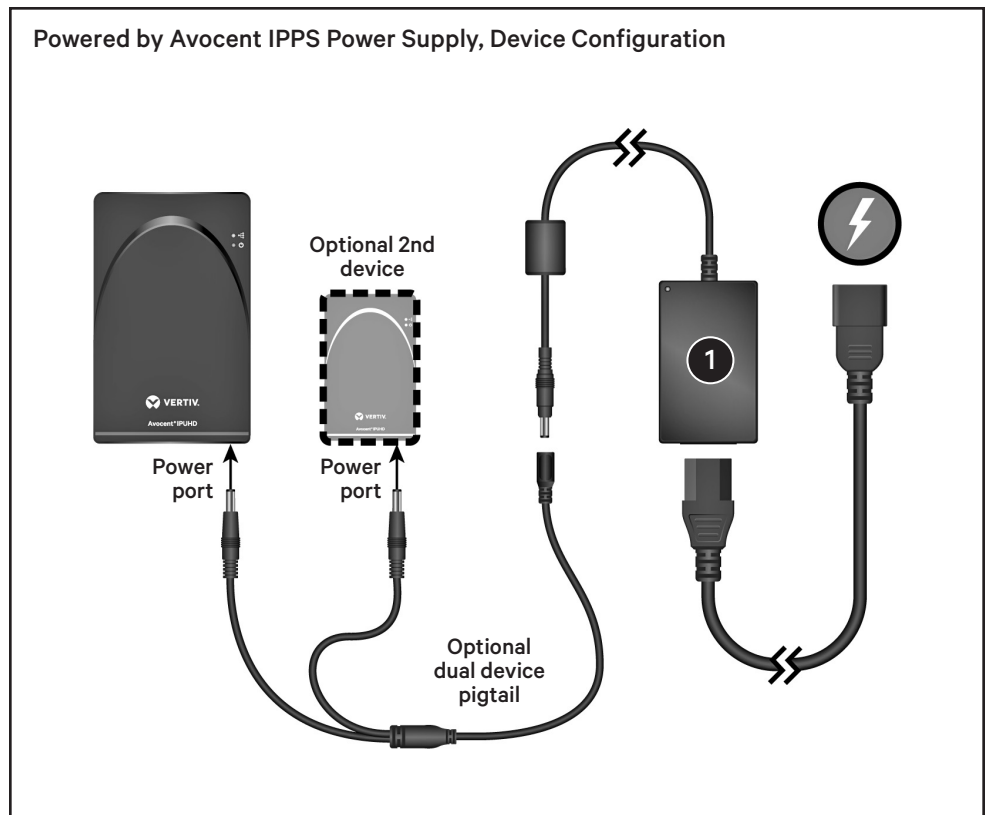**NOTE:** *Each Avocent IPPS power supply can support two 4K IP KVM devices.*

2. Connecting to a network switch

Use a CAT 5e or CAT 6 cable to connect the LAN 1 port of the 4K IP KVM device to a port on your network switch or device.

NOTE: *If following the PoE configuration, the port you connect to must be the PoE+ port on your network switch/device. The 4K IP KVM device requires an 802.3 Type 2 (30W) PoE+ port.*

3. Connecting to the managed device

Use the provided USB-C cable to connect the USB-C port of the 4K IP KVM device directly to the managed device. If the device has no available USB-C port with DisplayPort alternative mode support, or if the USB-C port is unavailable, install a

Powered by Avocent IPPS Power Supply, Device Configuration

Optional 2nd device

Power port

Power port

1

Optional dual device pigtail

Powered by PoE+ Port, Device Configuration

2

PoE+ ports on connected switch or device

LAN 1

4K IP KVM adapter with the appropriate video port cable connection to the device. Connect the USB-C cable from the 4K IP KVM device to the adapter's USB-C port.

NOTE: Vertiv™ Avocent® 4K IP KVM adapter video cable connection options for DP, HDMI and MiniDP are available. Each adapter has a single USB Type A cable for keyboard/mouse control.

4. **Connecting to a device's service processor (optional)**

   Connect the LAN 2 port of the 4K IP KVM device to the network port on the service processor.

5. **Connecting to a serial device (optional)**

   Use a Micro USB On-The-Go (OTG) cable to connect the 4K IP KVM device to a serial device or a USB-to-serial converter to manage the host.
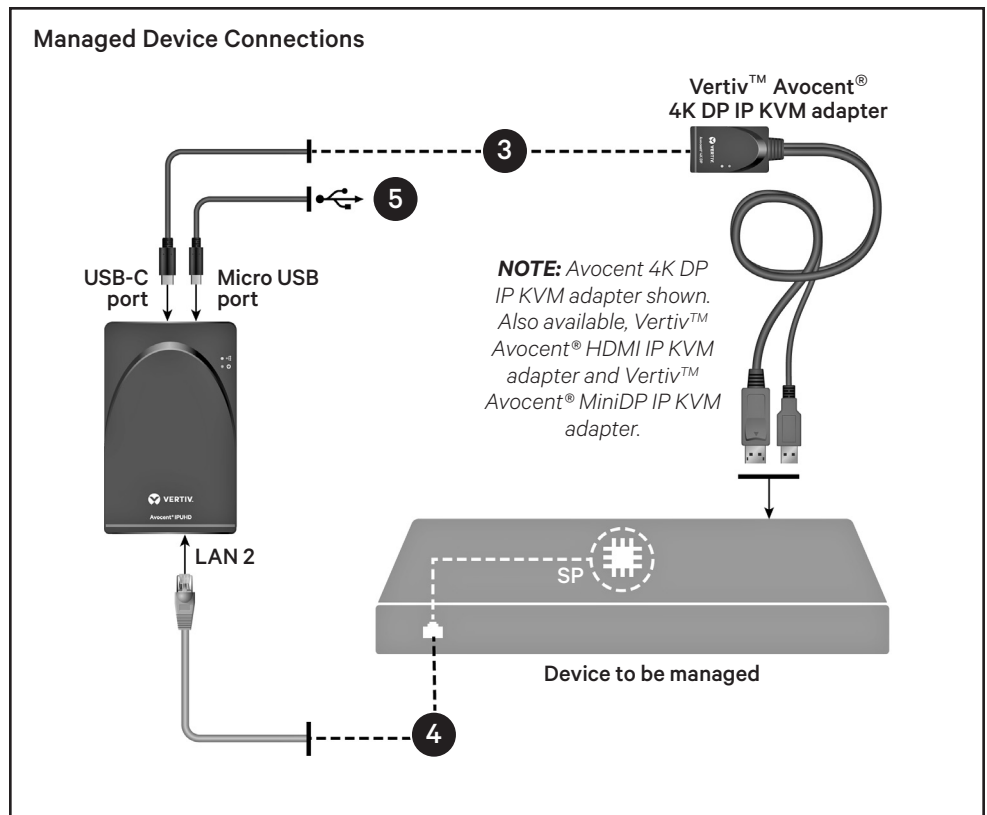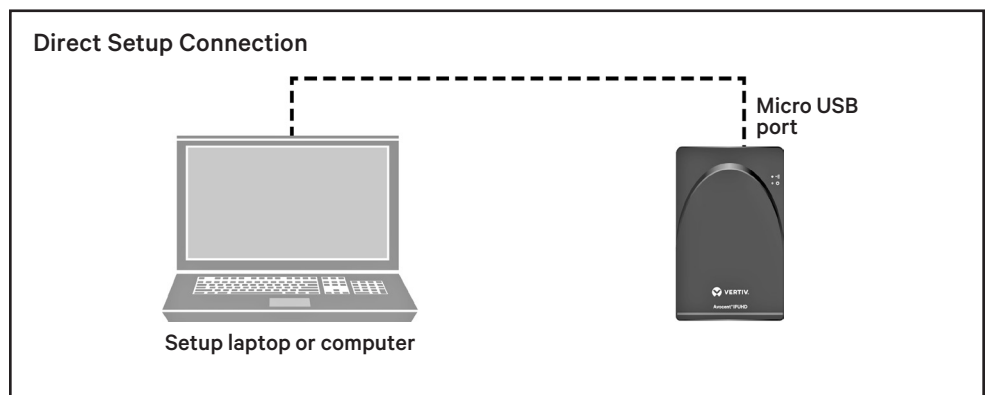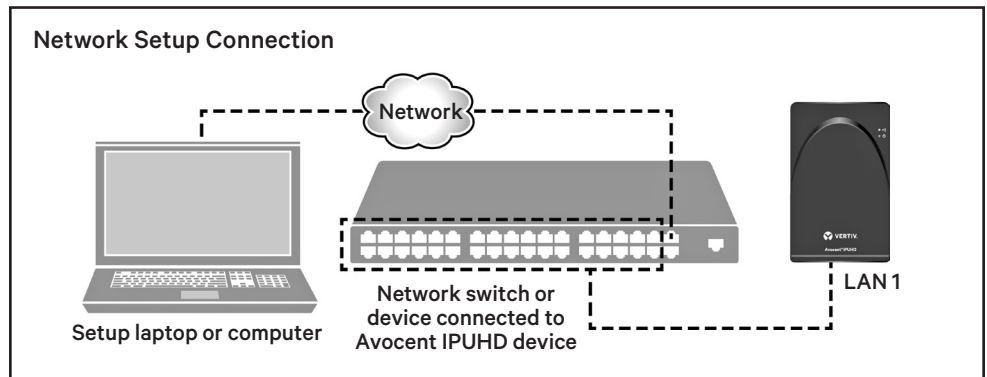
First time setup of the 4K IP KVM device

By default, a DHCP server on the network assigns an IP address to the 4K IP KVM device. Get that IP address from the DHCP server and enter it into https://<IPaddr> to connect to its web User Interface (UI).

If the assigned IP address is unknown, follow one of these two steps:

NOTE: The computer you are connecting must have a minimum of Windows 10 installed or have the Bonjour protocol installed (by default on Mac-OS computers).

a) Connect another computer to the same local network to which the 4K IP KVM device is connected.

   -or-

b) Connect a micro USB cable from the 4K IP KVM device's micro USB port to another computer.

   NOTE: Ensure that a new USB-NIC network interface was created automatically on the computer.

Managed Device Connections

Vertiv™ Avocent®
4K DP IP KVM adapter

USB-C port   Micro USB port

NOTE: Avocent 4K DP IP KVM adapter shown. Also available, Vertiv™ Avocent® HDMI IP KVM adapter and Vertiv™ Avocent® MiniDP IP KVM adapter.

LAN 2

SP

Device to be managed

Network Setup Connection

Network

Setup laptop or computer

Network switch or device connected to Avocent IPUHD device

LAN 1

Direct Setup Connection

Micro USB port

Setup laptop or computer

Finding the assigned IP address

1. From a web browser on your computer, enter: **https://ipuhd-**<macaddr-LAN1>**.local**, where macaddr-LAN1 is the MAC1 on the sticker of the 4K IP KVM device. For example, https://ipuhd-12a4dc3255b0.local
   NOTE: *If the hostname is not found, you may use this predefined IP address instead: https:// 169.254.0.10.*
   Once the URL is entered into the browser, the 4K IP KVM device's web UI appears.

2. Log in with the default username/ password of **admin/Password1**. You may be asked to change the password on first login.

3. From the web UI, navigate to *Configuration - Network - ethbr0* to find the assigned DHCP IP address or change any desired Network settings (for example, change to a static IP address).

Changing the mode

By default, the 4K IP KVM device is managed by a rack manager (Managed mode). To use the 4K IP KVM device with a power supply, select *Configuration - Registration* in the web UI and select *Standalone* under the Mode heading.