## TECHNICAL SPECIFICATION

| VIDEO | |
|---|---|
| Format | DisplayPort 1.2 |
| Maximum Pixel Clock | 165 MHz |
| Input Interface (TX) | (16) DisplayPort |
| Output Interface (RX) | (4) DisplayPort |
| Resolution | Up to 4K (3840x2160 @60Hz) |
| DDC | via AUX |
| Equalization | Automatic |
| Input Cable Length | Up to 15 ft. |
| Output Cable Length | Up to 15 ft. |

| AUDIO | |
|---|---|
| Input Interface | (4) 3.5 mm Mic Audio |
| Output Interface | (1) 3.5 mm Mic Audio |
| Impedance | 600 0hm |
| Frequency Responce | 20 Hz to 20 kHz |
| Nominal Level | 0-1.0 V |
| Common Mode | Rejection at 60 dB |

| USB | |
|---|---|
| Signal Type | USB 2.0 |
| Input Interface (TX) | (4) USB Type B |
| Output Interface (RX) | (2) USB 1.1 Type A K/M<br>(2) USB 2.0 Type A Transparent |

| CONTROL | |
|---|---|
| Front Panel | Buttons, Select/Switch between Video & Audio sources and view the current selected channel |
| Hot Keys | Via Keyboard |

| OTHER | |
|---|---|
| Power | External 100-240 VAC/5VDC3A |
| Dimensions | 4.5" H x 6" D x 12.75" W |
| Weight | 5.6 lbs |
| Operating Temp. | 0-55 °C (32-131°F) |
| Storage Temp. | -20-85 °C (-4-185 °F) |
| Humidity | Up to 95% |
| Emulation | Keyboard and mouse only |

## WHAT'S IN THE BOX

| PART NO. | Q-TY | DESCRIPTION |
|---|---|---|
| DPN-4QUAD-S | 1 | 4-Port Quad-Head DisplayPort KVM Switch with USB 2.0 and Mic Audio Support |
| PS5VD3A-WMT | 1 | PS5VD3A Power Supply |
| Quick Start Guide | 1 | |

## NOTICE

DESIGNED AND MADE IN THE USA

800.AVI.2131, 702.800.0005
2455 W Cheyenne Ave, Suite 112
North Las Vegas, NV 89032

SmartAVI.com

# Smart-AVI
SMART AUDIO VIDEO INNOVATION

# DPN-4QUAD

## 4 Port Quad-Head DisplayPort USB KVM Switch with Mic Audio and USB 2.0 Support



## ACCESS & CONTROL UP TO 4 COMPUTERS FROM A SINGLE WORKSTATION

## Quick Start Guide

# SYSTEM CONTROL

There are three ways to control the DPN-4QUAD: Keyboard HotKeys, RS-232 Serial Commands, and Front Panel Buttons.
The settings for the serial connection are as follows:
Baud rate: **115200**; Data Bits: **8**; Parity: **None**; Stop Bits: **1**; Flow Control: **None**.

The following commands can be used:

| Command | HotKey | RS-232 |
|---|---|---|
| All USB, audio, video | [CTRL][CTRL] [port#][ENTER] | //**m**[port#] [ENTER] |
| Audio Only | [CTRL][CTRL] **a**[port#][ENTER] | //**a**[port#] [ENTER] |
| KM Only | [CTRL][CTRL] **c**[port#][ENTER] | //**c**[port#] [ENTER] |
| USB Only | [CTRL][CTRL] **u**[port#][ENTER] | //**u**[port#] [ENTER] |
| Learn EDID | [CTRL][CTRL] **e**[ENTER] | //**e**[ENTER] |
| Trigger Hotplug | [CTRL][CTRL] **h**[ENTER] | //**h**[ENTER] |
| Reset Software | [CTRL][CTRL]**r** | //**r**[ENTER] |
| Factory Defaults | [CTRL][CTRL]**f** | //**f**[ENTER] |
| Same as front panel ◄ M1 button | [HK][HK] ↑ | N/A |
| Same as front panel M2 ► button | [HK][HK] ↓ | N/A |
| Get Port Status | N/A | //**??**[ENTER] |

# CUSTOM HOTKEY TRIGGERS

Users are able to customize the keys that trigger Hotkeys. The following keys are allowed:

CTRL (Left / Right), ALT, SHIFT (Left / Right), Caps Lock, Scroll Lock, F1-F12

**Change HK Trigger**
HK + HK + X + desired hotkey

**View Current HK Trigger**
Use the RS-232 command: //??[ENTER]

**Reset HK Trigger**
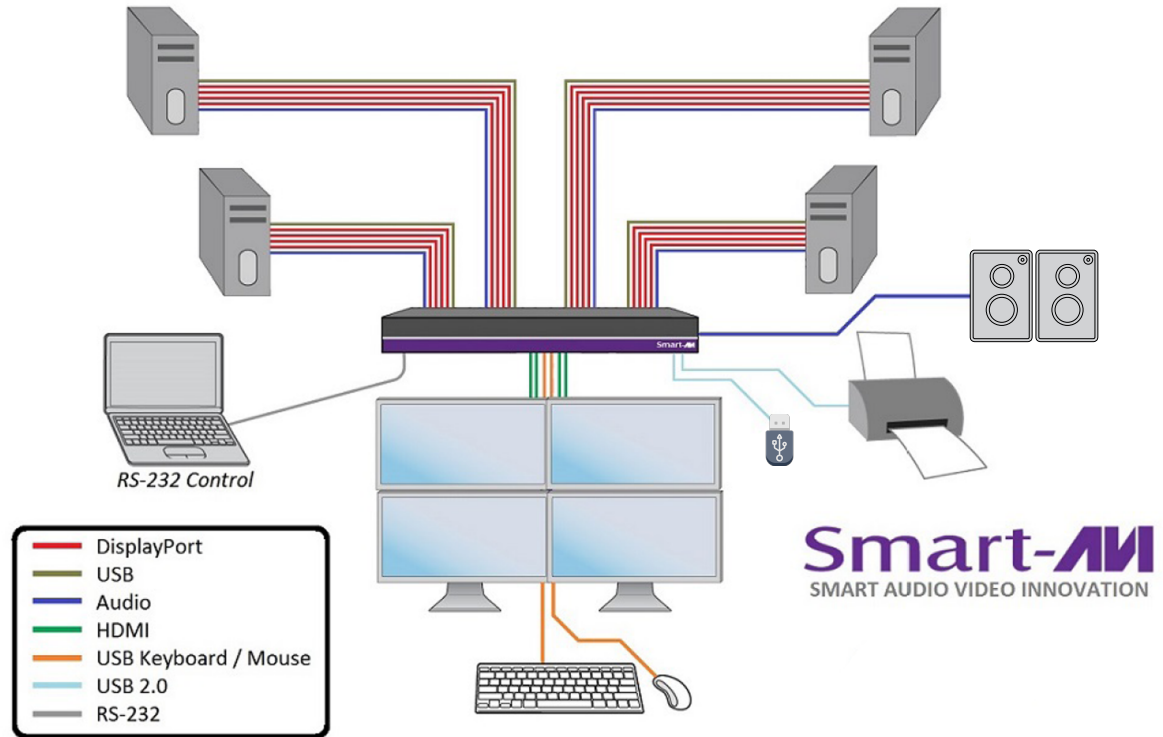Run "Factory Defaults" command.
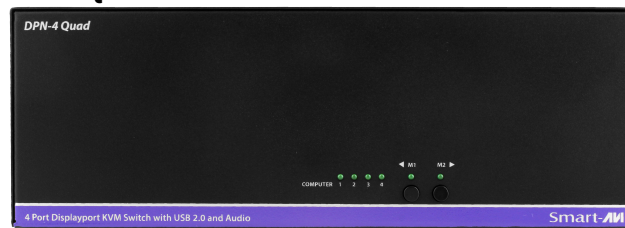
**Default HotKey Trigger**
CTRL (Left)

# HARDWARE INSTALLATION

1. Ensure that power disconnected from the DPN-4Quad
2. Connect the DisplayPort cables, USB cables (male-A to male-B) from the computers to the respective input port on the DPN-4Quad
3. Optionally connect Audio cables (3.5 mm jack) from the computers to the input ports on the DPN-4Quad
4. Connect the USB keyboard and mouse to the two USB ports marked for them on the right
5. Connect the DisplayPort monitor to the OUT connectors on the DPN-4Quad
6. Optionally connect a microphone to the out jack on the DPN-4Quad
7. Optionally connect up to two USB devices to the DPN-4Quad
8. Power on the DPN-4Quad

**Note: The two USB ports on the right are dedicated for keyboard and mouse emulation. The two on the left are for other USB peripherals (flash drives, printers, etc.)**



RS-232 Control

| | DisplayPort |
|---|---|
| | USB |
| | Audio |
| | HDMI |
| | USB Keyboard / Mouse |
| | USB 2.0 |
| | RS-232 |

## DPN-4QUAD FRONT



## DPN-4QUAD BACK