



SMARTAVI SM-UHN-4Q Quad Head 4 Port HDMI KVM Switch User Guide

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Technical Specifications



SPECIFICATION

- **Video**
- **Format:** HDMI
- **Input Interface:** (16) HDMI 19-pin
- **Output Interface:** (4) HDMI 19-pin
- **Resolution:** Up to 4K (3840×2160 @60Hz)
- **DDC Input Equalization:** Automatic
- **Input Cable Length:** Up to 20 ft.
- **Output Cable Length:** Up to 20 ft.
- **USB**
- **Signal Type:** USB 2.0, 1.1, and 1.0 w/ internal hub
- **Input Interface:** (4) USB Type B
- **Output Interface:** (2) USB 1.1 Type A for KVM Devices, (2) USB 2.0 Type A Transparent
- **Audio**
- **Input:** (4) 3.5 mm Stereo Audio
- **Output:** (1) 3.5 mm Stereo Audio
- **Power**
- **Power Requirements:** 12V DC, 2A power adapter with center-pin positive polarity
- **Environment**
- **Operating Temp:** N/A
- **Storage Temp:** N/A
- **Humidity:** N/A
- **Control**
- **Front Panel:** Push Buttons with LED indicators
- **RS-232:** Via Serial @ 115200 bps
- **Hot Keys:** Via Keyboard
- **Other**
- **Emulation:** Keyboard, Mouse, and Video

What's in the Box

- **PART NO.:** SM-UHN-4Q-S
- **QTY:** 1
- **DESCRIPTION:** Quad Head 4-Port HDMI KVM Switch with Audio and USB 2.0 Support.
- **PART NO.:** PS12VD2A
- **QTY:** 1
- **DESCRIPTION:** 12V DC, 2A power adapter with 1 center-pin positive polarity.
- **PART NO.:** N/A
- **QTY:** 1
- **DESCRIPTION:** Quick Start Guide

The following commands can be used

Command	HotKey
Switch KVM	[CT][CT][#]
RS-232	//m[#]
Audio Only	[CT][CT]a[#]
KM Only	[CT][CT]c[#]
USB Only	[CT][CT]u[#]
Learn EDID	[CT][CT]e
SW Reset	[CT][CT]r
Status Query	//??
Current HK Trigger	N/A
Update HK Trigger	[Alt][Alt][Alt] //hk x 0 [HK][HK] x [1 2 3]
Chart Key	[CT] = Ctrl = Carriage Return (Enter Key) [HK] = Current Hot Key Trigger 1 = Ctrl (Default) 2 = Shift 3 = Scroll Lock

Hardware Installation

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use HDMI cables to connect the HDMI output ports from each computer to the corresponding HDMI ports of the unit.
3. Use a USB cable (Type-A to Type-B) to connect a USB port on each computer to the respective USB ports of the unit.
4. Optionally connect a stereo audio cable (3.5mm to 3.5mm) to connect the audio output of the computers to the AUDIO IN ports of the unit.
5. Connect monitors to the HDMI console ports of the unit using HDMI cables.
6. Connect a USB keyboard and mouse in the two USB console ports.
7. Optionally connect stereo speakers to the AUDIO OUT port of the unit.
8. Finally, power on the KVM by connecting a 12VDC power supply to the power connector, and then turn on all the computers.

Note: You can connect up to 4 computers to the 4-port KVM.

TECHNICAL SPECIFICATIONS

VIDEO	
Format	HDMI

Input Interface	(16) HDMI 19-pin
Output Interface	(4) HDMI 19-pin
Resolution	Up to 4K (3840×2160 @60Hz)
DDC	5 volts p-p (TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft.
Output Cable Length	Up to 20 ft.
USB	
Signal Type	USB 2.0, 1.1, and 1.0 w/ internal hub
Input Interface	(4) USB Type B
Output Interface	(2) USB 1.1 Type A for KVM Devices (2) USB 2.0 Type A Transparent
AUDIO	
Input	(4) 3.5 mm Stereo Audio
Output	(1) 3.5 mm Stereo Audio

POWER	
Power Requirements	12V DC, 2A power adapter with center-pin positive polarity
ENVIRONMENT	
Operating Temp	32° to 104° F (0° to 40° C)
Storage Temp	-4° to 140° F (-20° to 60° C)
Humidity	0-80% RH, non-condensing
CONTROL	
Front Panel	Push Buttons with LED indicators
RS-232	Via Serial @ 115200 bps
Hot Keys	Via Keyboard
OTHER	
Emulation	Keyboard, Mouse, and Video

WHAT'S IN THE BOX

WHAT'S IN THE BOX		
PART NO.	QTY	DESCRIPTION
SM-UHN-4Q-S	1	Quad Head 4-Port HDMI KVM Switch with Audio and USB 2.0 Support.
PS12VD2A	1	12V DC, 2A power adapter with center-pin positive polarity.
	1	Quick Start Guide

NOTICE

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The KVM is designed to learn a connected monitor's EDID upon power-up. In the event of connecting a new monitor to the KVM, a power re-cycle is required.

SYSTEM CONTROL

There are three ways to control the SM-UHN: 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

HotKey	Command	RS-232
[CT][CT][#]<CR>	Switch KVM	//m[#]<CR>
[CT][CT]a[#]<CR>	Audio Only	//a[#]<CR>
[CT][CT]c[#]<CR>	KM Only	//c[#]<CR>
[CT][CT]u[#]<CR>	USB Only	//u[#]<CR>
[CT][CT]e <CR>	Learn EDID	//e <CR>
[CT][CT]r	SW Reset	//r <CR>
N/A	Status Query	//?? <CR>
[Alt][Alt][Alt] x 0 <CR>	Current HK Trigger	//hk <CR>
[HK][HK] x [1 2 3] <CR>	Update HK Trigger	N/A

Chart Key

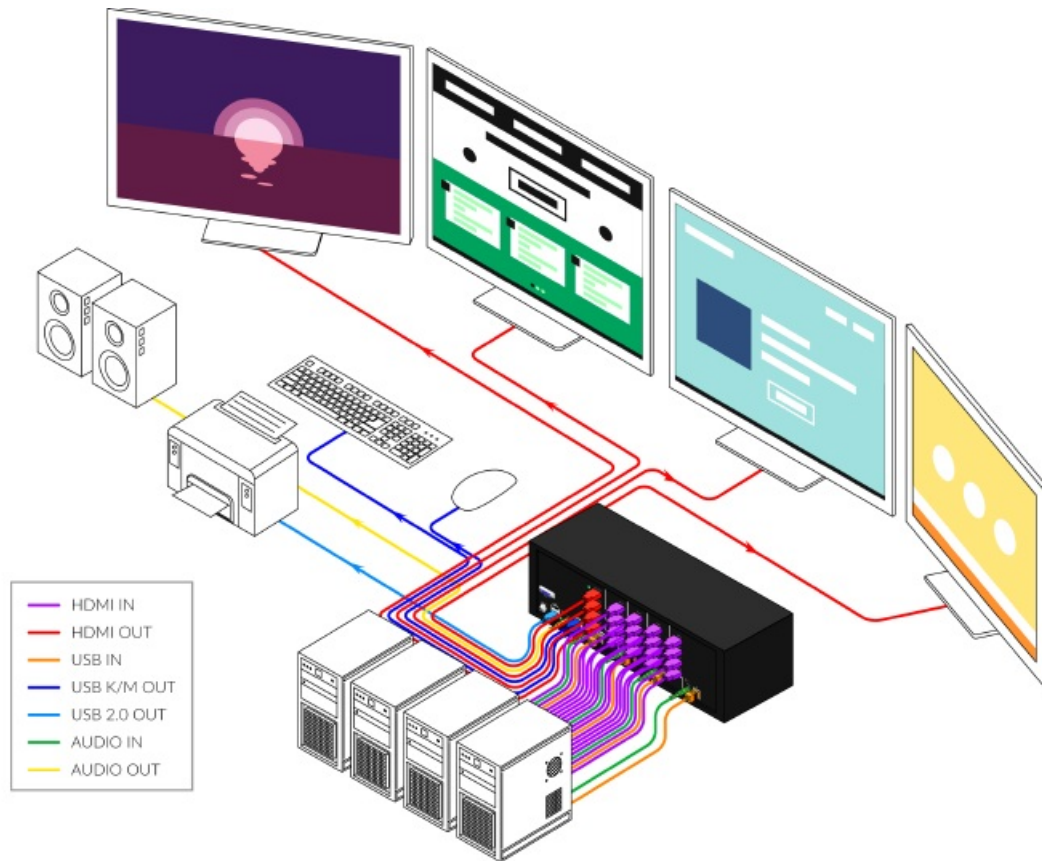
- [CT] = Ctrl
- <CR> = Carriage Return (Enter Key)
- [HK] = Current Hot Key Trigger **1** = Ctrl (Default) | **2** = Shift | **3** = Scroll Lock

HARDWARE INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the
2. Use HDMI cables to connect the HDMI output ports from each computer to the corresponding- ing HDMI ports of the unit.
3. Use a USB cable (Type-A to Type-B) to connect a USB port on each computer to the respective USB ports of the unit.
4. Optionally connect a stereo audio cable (3.5mm to 5mm) to connect the audio output of the computers to the AUDIO IN ports of the unit.
5. Connect monitors to the HDMI console ports of the unit using the HDMI

6. Connect a USB keyboard and mouse to the two USB console
7. Optionally connect stereo speakers to the AUDIO OUT port of the
8. Finally, power on the KVM by connecting a 12VDC power supply to the power connector, and then turn on all the computers.

Note: You can connect up to 4 computers to the 4 port KVM



FAQ

How many computers can be connected to the 4-port KVM

You can connect up to 4 computers to the 4-port KVM.

How do I control the SM-UHN?

You can control the SM-UHN using Keyboard HotKeys, RS-232 Serial Commands, or Front Panel Buttons.

How do I learn a new monitor's EDID with the KVM?

In order to learn a new monitor's EDID, you need to power cycle the KVM after connecting the new monitor.



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SM-UHN-4Q Quad Head 4 Port HDMI KVM Switch, SM-UHN-4Q, Quad Head 4 Port HDMI KV
M Switch, Head 4 Port HDMI KVM Switch, Port HDMI KVM Switch, HDMI KVM Switch, KVM S
witch, Switch

References

- [SmartAVI Home - SmartAVI](#)
- [SM-UHN-4Q - SmartAVI](#)
- [User Manual](#)