

## TECHNICAL SPECIFICATIONS

VIDEO	
Format	DisplayPort1.2a
Input Interface	(4) DisplayPort
Output Interface	(2) HDMI
Input Resolution	Up to 4K (3840 x 2160 @ 60 Hz)
Output Resolution	Up to 4K (3840 x 2160 @30 Hz)
DDC	5 volts p-p (TTL)
Input Equalization	Automatic
Input Cable Length	Up to 20 ft
Output Cable Length	Up to 20 ft
USB	
Input Interface	(4) USB Type B
Output Interface	(2) USB 1.1 Type A for KM Devices (2) USB 2.0 Type A Transparent
Emulation	USB 1.1 and USB 2.0 Compatible
AUDIO	
Audio Input	(4) 3.5mm stereo audio
Audio Output	(1) 3.5mm stereo audio
CONTROL	
Front Panel	Push Buttons with LED indicators
RS-232	Via Serial @ 115200 bps
Hot Keys	Via Keyboard
OTHER	
Power	External 100-240 VAC/ 12VDC2A @ 24W
Dimensions	12.57" W x 2.7" H x 6.69" D
Weight	4.2 lbs
Approvals	NIAP PP 3.0, UL, CE, ROHS Compliant
Operating Temp.	32 to +104 °F (0 to +40 °C)
Storage Temp.	-4 to 140 °F (-20 to +60 °C)
Humidity	Up to 80% (no condensation)

## WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
SM-MST-4D	1	4 port KVM MST with Dual 4K HDMI Out
PS12VDC2A	1	12-VDC, 2-A power adapter with center-pin positive polarity.
	1	Quick Start Guide

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# Smart-M

4-Port Single Head DP to 2 x HDMI Switch

## SM-MST-4D



4 Port KVM DP MST  
with Dual 4K HDMI Out

## Quick Start Guide

A full manual can be downloaded from  
[www.ipgard.com/documentation/](http://www.ipgard.com/documentation/)

## SYSTEM CONTROL

There are three ways to control the KVM Switch: 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
Switch KVM	[CT][CT][#]<CR>	//m[#]<CR>
Audio Only	[CT][CT]a[#]<CR>	//a[#]<CR>
KM Only	[CT][CT]c[#]<CR>	//c[#]<CR>
USB Only	[CT][CT]u[#]<CR>	//u[#]<CR>
Trigger Hotplug	[CT][CT]h<CR>	//h<CR>
Restore Factory Defaults	[CT][CT]f<CR>	//f<CR>
Reset Software	[CT][CT]r	//r<CR>
Get Port Status	N/A	//??<CR>

### Chart Key

[CT] = Ctrl  
<CR> = Carriage Return (Enter Key)  
[HK] = Current Hot Key Trigger

## CUSTOM HOTKEY TRIGGERS

Users are able to customize the keys that trigger Hotkeys. The following keys are allowed: CT (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: //??<CR>

### Default HotKey Trigger

CT (Left)

## HARDWARE INSTALLATION

1. Ensure that power is turned off or disconnected from the unit and the computers.
2. Use Display Port cables to connect the Display Port output ports from each computer to the corresponding Display Port in 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 (3.5 mm to 3.5 mm) to connect the audio output of the computer(s) to the audio in ports of the unit.
5. Connect monitor(s) to the HDMI out console ports of the unit using HDMI cable(s).
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 secure KVM switch by connecting a 12-VDC power supply to the power connector, and then turn on all the computers.

**Note:** You can connect two monitors to the single-head KVM switch and four monitors to the dual-head KVM switch. The computer connected to port 1 will always be selected by default after power up.

