

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential setting. This product generates, uses, and can radiate radio frequency energy and, if not installed and used as directed, it may cause harmful interference to radio communications. Although this product complies with the limits for a Class B digital device, there is no guarantee that interference will not occur in a particular installation.

CE Compliance

This device has been tested and found to comply with the following European Union directives: Electromagnetic Capability (89/336/EMC), Low Voltage (73/23/EEC) and R&TTE (1999/5/EC).

Limited Warranty

WE'RE HERE TO HELP YOU! NEED ASSISTANCE SETTING UP THIS PRODUCT?

Make sure you:

1. Use the live chat at avior.iogear.com to try and solve any issues you may be having with the product
2. Visit the Tech Info Library/FAQ on avior.iogear.com (under the Support tab)
3. Call the tech support line at 1(866) 946-4327 (U.S. only) or (949) 453-8782

Warranty Information

This product carries a 3 Year Limited Warranty. For the terms and conditions of this warranty, please go to <http://avior.iogear.com/support/warranty> or call 1-866-946-4327

Register online at <http://avior.iogear.com/register>

Important Product Information

Product Model _____
Serial Number _____

Contact

Toll Free: 866-946-4327 (USA)
Phone: 949-453-8782
Address: 19641 Da Vinci, Foothill Ranch, CA 92610, USA
Web Site: avior.iogear.com
E-mail: support@iogear.com

About Us

FUN
IOGEAR offers connectivity solutions that are innovative, fun, and stylish, helping people enjoy daily life using our high technology products.

GREEN
IOGEAR is an environmentally conscious company that emphasizes the importance of conserving natural resources. The use of our technology solutions helps reduce electronic waste.



QuickStart Guide

4/8-Port HD Audio/Video Switch with RS-232 Support

GHSW8141/GHSW8181
PKG-D1133-a

Package Content

- | | |
|------------------------------------|------------------------------------|
| 1 x 4/8-Port HD Audio/Video Switch | 1 x Rack Mount Kit (GHSW8181 Only) |
| 1 x Remote Control | 1 x Quick Start Guide |
| 1 x Power Adapter | 1 x Warranty Card |

Specifications

Function			GHSW8141	GHSW8181
Display Connections			1	1
Connectors	Device	HDMI In	4 x HDMI Type A Female (Black)	8 x HDMI Type A Female (Black)
	Display	HDMI Out	1 x HDMI Type A Female (Black)	1 x HDMI Type A Female (Black)
	RS-232 Port		1 x DB-9 Female (Black)	1 x DB-9 Female (Black)
	Power		1 x DC Jack	1 x DC Jack
LEDs	Online/Selected		4 (Orange/Green)	8 (Orange/Green)
Video			HDTV resolutions of 480p, 720p, 1080i, 1080p (1920 x 1080); VGA, SXGA, UXGA (1600 x 1200), WUXGA (1920 x 1200)	HDTV resolutions of 480p, 720p, 1080i, 1080p (1920 x 1080); VGA, SXGA, UXGA (1600 x 1200), WUXGA (1920 x 1200)
			DC 5.3V, 2.4W	DC 5.3V, 3.71W
Power Consumption	Operating Temp.		32-122°F	32-122°F
	Storage Temp.		-4°-140°F	-4°-140°F
	Humidity		0-80% RH, Non-condensing	0-80% RH, Non-condensing
Physical Properties	Housing		Metal	Metal
	Weight		1.04 lb	3.86 lb
	Dimensions (L x W x H)		7.87 x 3.15 x 0.98 in	17 x 6.06 x 1.73 in

- Product specifications and appearance are subject to change without notice.
- HDMI® the HDMI Logo, and High-Definition Multimedia Interface are trademarks of HDMI Licensing LLC in the United States and other countries.

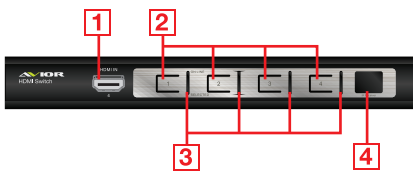
GHSW8141 / GHSW8181 Overview

Start Here!

GHSW8141

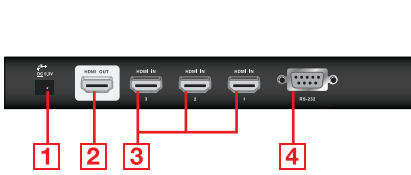
Front View

1. HDMI Input
2. Port Selection Pushbutton
3. Port Status LED
4. IR Receiver



Back View

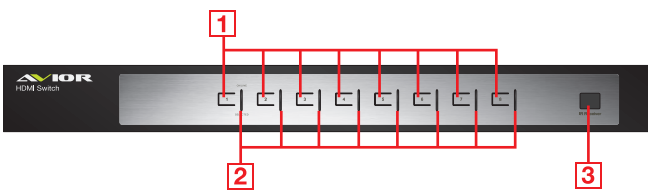
1. Power Jack
2. HDMI Output
3. HDMI Input
4. RS-232 Serial Port



GHSW8181

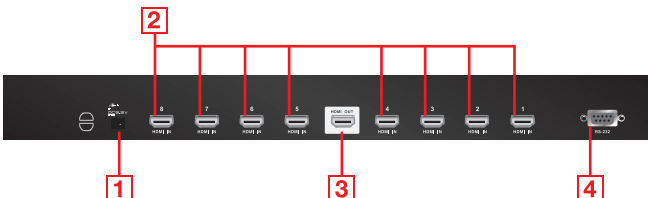
Front View

1. Port Selection Pushbutton
2. Port Status LED
3. IR Receiver



Back View

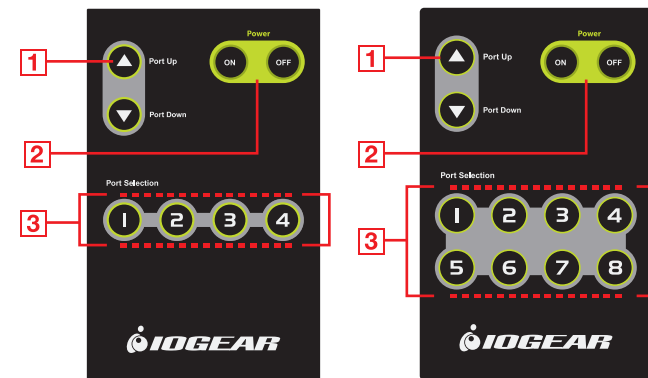
1. Power Jack
2. HDMI Input
3. HDMI Output
4. RS-232 Serial Port



GHSW8141 / GHSW8181 Remote

Remote Control Top View

1. Port Up / Down
2. Power ON / OFF
3. Port Selection Button



Rack Mount (GHSW8181 Only)

Step 1

Remove the screws from the left and right sides of the switch (2 screws total) near the front of the switch.



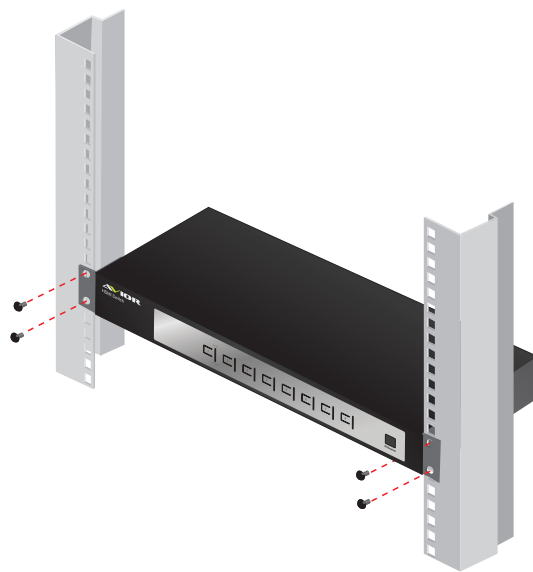
Step 2

Use the M3 x 8 Phillips hex head screws supplied with the rack mounting kit to screw the rack mounting brackets into the sides near the front of the unit.



Final Step

Place the HDMI switch in the rack. Position it so that the holes in the mounting brackets line up with the holes in the rack. Secure the mounting brackets to the front of the rack (screws not included).



Installation

Note: Make sure your source devices and display are powered off before you start.

Step 1

Connect an HDMI cable to the output port from the HDMI switch to the input port of the HD TV or display

Step 2

Connect any HDMI media sources to the input ports of the HDMI switch via HDMI cables

Step 3

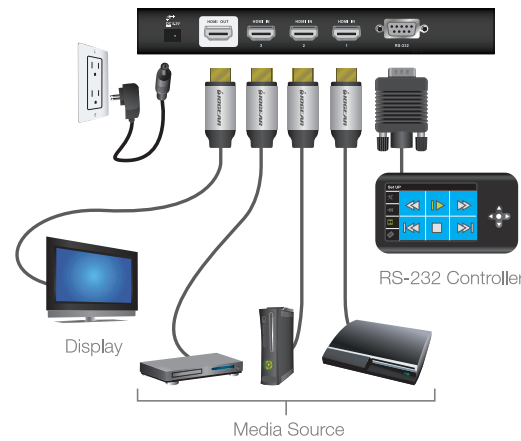
Connect the power adapter to the power outlet and the HDMI switch's power adapter jack

Step 4 (optional)

Connect your hardware or software RS-232 controller for HDMI switch control

Final Step

Turn on your media source and display



Devices and cables are not included

Port Switching

Via front panel pushbutton

Press the specific port ID's pushbutton to switch your media source

Via IR remote control

Press the specific port ID's button to switch your media source. Or press port up or down button to switch to the previous or next port respectively

Via RS-232 hardware or software device

Please refer to the serial port configuration and command list below for more details

Serial Port (RS-232) Configuration

The device's built-in bi-directional RS-232 serial interface allows system control through a high-end controller, PC, and/or home automation / home theater software package.

Configuring the Serial Port

The controller's serial port should be configured as shown on the right:

Description	Setting
Baud Rate	19200
Data Bits	8
Parity	None
Stop Bits	1
Flow Control	None

Serial Port (RS-232) Command List

Switch Port Commands

1. Switch Command (and) Input(and)Port Number [Enter]
For example, to switch to the input port 01, input the following: sw i01 [Enter]

2. Switch Command (and) Port Sequence [Enter]
For example, to switch to the next port (+), input the following: sw + [Enter]

Note: Each command string can be separated with a [Space].

Power On Detection Commands

Power On Detection - if one of the HDMI source devices is powered off or unplugged, the switch will automatically switch to the next active port. The Power On Detection feature is turned on by default.

Please note that the Power On Detection function might not work on some devices due to the various design on devices.

The formula for Power On Detection commands is as follows: pod (and) Control command [Enter]

For example, to turn on or turn off the Power On Detection feature, input the following: pod on [Enter] or pod off [Enter]

Verification

After entering a command, a verification message appears at the end of the command line as follows:

- Command OK - indicates that the command is correct and successfully performed by the switch
- Command incorrect - indicates that the command has the wrong format and/or values.

The following table shows the possible values and formats:

Description	Command
Switch command	sw
Input Port	i
Port number (default is 01)	01-08
Port Sequence - Next Port	+
Port Sequence - Previous Port	-
Power On Detection - On	pod on
Power On Detection - Off	pod off

Powering Off and Restarting

To power off the switch, follow these steps before powering it on again:

1. Power off the attached devices.
2. Unplug the power adapter cable from the switch.
3. Wait 10 seconds, and then plug the power adapter cable back in.
4. After the switch is powered on, power on the attached devices.

Note: Whenever the switch is powered on, it automatically selects the first port connected to a powered on source device.