



2-Port HDMI® Auto Switch

Conveniently switches between two HDMI devices and supports a 1080p resolution

OVERVIEW

Perfect for situations where two HDMI devices must share a single HDMI input on a display, this HDMI auto switch provides for hassle-free operation. Most high definition audio/video components utilize the HDMI interface to provide crystal clear, digital sound and picture. With the wealth of devices now using HDMI, it's easy to run out of free HDMI inputs on your TV set or receiver. This HDMI selector switch solves the problem by providing additional high definition digital inputs for sources including DVD player, Blu-ray™, Disc and HD-DVD players, gaming systems, and high definition cable/satellite boxes. The auto switching functionality provides for a system that is easy to use, while manual switching functionality is available for situations where more control is desired.

- 1080p maximum resolution
- Supports up to two HDMI devices
- Supports Deep Color

FEATURES

- Autosensing function
- Manual switching
- High performance – 2.5Gbps bandwidth

BENEFITS

- Eases use by allowing automatic device selection
- Provides user defined control
- Supports the necessary HDMI features for the application

APPLICATIONS

- Connect multiple HDMI sources to a single HDMI input on a display



ELECTRICAL CHARACTERISTICS:

Power Requirement:	5V (from HDMI source)
Maximum Bandwidth:	2.5Gbps per channel
Propagation Delay:	$\leq 2\text{ns}$
HDMI:	Supports Deep Color
Supply Voltage:	VDD = 3.3V $\pm 5\%$
Termination Resistors:	Integrated 50Ohm ($\pm 10\%$)

MAXIMUM RATINGS:

Supply Voltage to Ground Potential:	-0.5V to +4.0V
DC Input Voltage:	-0.5V to VDD
DC Output Current:	120mA
Power Dissipation:	1.0W

OPERATING CONDITIONS:

Termination Supply Voltage, VDD:	3.30V $\pm 5\%$
Terminal Resistance:	45 to 55Ohm

SOURCE DC CHARACTERISTICS:

Single-Ended High Level Output Voltage, VH:	VDD $\pm 10\text{mV}$
Single-Ended Low Level Output Voltage, VL:	$(\text{VDD} - 600\text{mV}) \leq \text{VL} \leq (\text{VDD} - 400\text{mV})$
Single-Ended Output Swing Voltage, $\% \text{SWING}$:	$400\text{mV} \leq \% \text{SWING} \leq 600\text{mV}$
Single-Ended Standby (Off) Output Voltage, $\% \text{OFF}$:	VDD $\pm 10\text{mV}$

TRANSMITTER AC CHARACTERISTICS AT TP2:

Risetime/Falltime (20%-80%):	240ps
Intra-Pair Skew at Transmitter Connector, Max:	60ps max
Inter-Pair Skew at Transmitter Connector, Max:	100ps max
Clock Jitter, Max:	82ps max

SINK OPERATING DC CHARACTERISTICS AT TP2:

Input Differential Voltage Level, $\% \text{DIFF}$:	$150\text{mV} \leq \% \text{DIFF} \leq 1200\text{mV}$
Input Common Mode Voltage Level, VICM:	$(\text{VDD} - 300\text{mV}) \leq \text{VICM} \leq (\text{VDD} - 37.5\text{mV})$ or VDD $\pm 10\%$

SINK DC CHARACTERISTICS WHEN SOURCE DISABLED OR DISCONNECTED AT TP2:

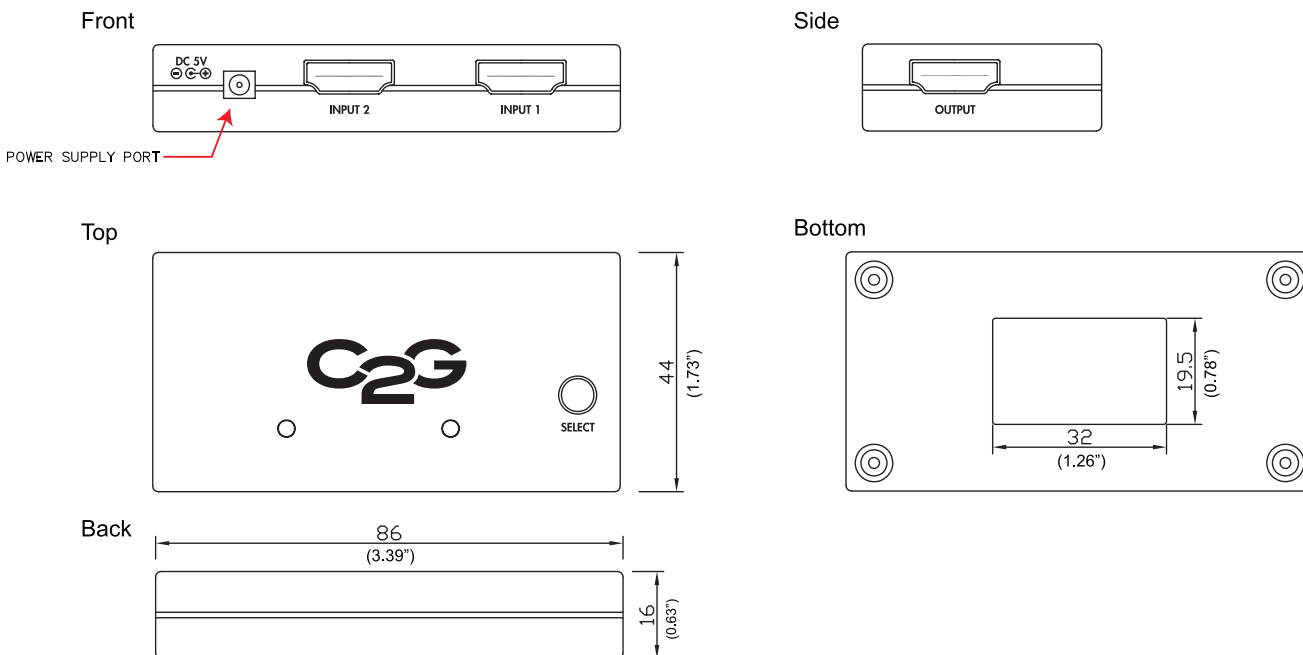
Differential Voltage Level:	VDD $\pm 10\text{mV}$
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PHYSICAL CHARACTERISTICS:

Inputs:	HDMI Female x 2
Outputs:	HDMI Female x 1
Dimensions (HxWxD):	16 x 86 x 44mm
Operating Temperature:	5C to +40C; 10-90% RH (Non-Condensing)
Storage Temperature:	-20 to +64C; 10-90% RH (Non-Condensing)

PRODUCT DRAWINGS:



ITEM	DESCRIPTION	WEIGHT (LBS)
40349	2-Port HDMI Auto Switch	0.284

