

iSwitch 104

1x4 HDMI 18Gbps Splitter



18 Gbps	4K2K@60Hz	HDCP 2.2
600MHz VIDEO BANDWIDTH	8-BIT RGB/YCBCR 4:4:4	HDMI 2.0b COMPLIANT

OVERVIEW

The iSwitch 104 is an advanced 1x4 HDMI 18Gbps Splitter solution for distributing a single HDMI signal to four HDMI displays. It provides high-performance audio and video output through HDMI cables up to 4K2K@60Hz with 8-bit RGB/YCbCr 4:4:4, receiving and transmitting up to 18Gbps of bandwidth with no data loss.

The splitter supports 3D frame-sequential video up to 1080p@60Hz and up to 4K2K@30Hz, plus high-resolution VESA mode video up to QSXGA@60Hz. Smart EDID control (STD / TV mode) automatically negotiates the best common resolution across connected displays.

KEY FEATURES

- **HDMI 2.0b, HDCP 2.2 compliant**
- **Video format up to 4K2K@60Hz** — with 8-bit RGB/YCbCr 4:4:4 / YCbCr 4:2:2
- **3D frame sequential** — video format up to 1080p@60Hz
- **3D frame sequential** — video format up to 4K2K@30Hz
- **High-resolution VESA mode** — video format up to QSXGA@60Hz
- **Audio support** — LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- **Smart EDID control** — STD (built-in EDID) and TV (auto-negotiated) modes
- **Compact design** — for easy and flexible installation

SPECIFICATIONS

TECHNICAL	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	600MHz / 18Gbps
Output Resolution	480i ~1080p50/60, 4Kx2K@24/30, 4k2k@60Hz
ESD Protection	Human Body model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
CONNECTIONS	
Input Ports	1 x HDMI Type A [19-pin female]
Output Ports	4 x HDMI Type A [19-pin female]
Control	1 x SERVICE (firmware update), EDID STD/TV mode switch

MECHANICAL	
Chassis Material	Metal
Silkscreen Color	Black
Dimensions	63mm (W) × 163mm (D) × 16mm (H)
Weight	260g
POWER	
Power Supply	5V/1A DC (US/EU standards, CE/FCC/UL certified)
Power Consumption	2W
ENVIRONMENTAL	
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)
COMPLIANCE	
Compliance	CE, FCC, UL (power adapter certified CE/FCC/UL; unit-level RoHS not stated in source — TBD)

APPLICATION EXAMPLE

Typical signal flow: a single HDMI source split to four independent HDMI displays with smart EDID control.

A typical iSwitch 104 deployment places the splitter between a single HDMI source (e.g., DVD player or set-top box) and up to four HDMI displays. In TV mode the splitter reads the EDID from the display on HDMI OUT 1 and applies the best common resolution to all outputs; in STD mode it uses its own built-in EDID (1080p@60Hz, LPCM 2CH stereo) for troubleshooting compatibility issues.

- Source device (DVD player, set-top box) connects to the single HDMI IN port.
- HDMI OUT 1-4 connect independently to up to four HDMI displays for simultaneous distribution, or can be cascaded to another splitter to extend distribution.
- EDID switch selects STD (built-in 1080p@60Hz / LPCM 2CH EDID) or TV (auto-read from display on OUT 1) mode.
- SERVICE port is used for firmware updates only.

ORDERING INFORMATION

Model	Description
iSwitch 104	1x4 HDMI 18Gbps Splitter — includes 5V/1A DC power adapter and user manual

Specifications are subject to change without notice. For the latest product information, visit www.infobitav.com or contact your Infobit AV representative.