Gefen TOOLBOX®

Ultra HD 4x2 Matrix for HDMI

Route four Hi-Def sources to two Ultra HD displays with FST, 3DTV, and 4K x 2K Ultra High-Definition support
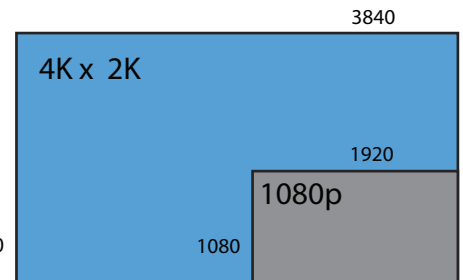
The GefenToolBox 4x2 Matrix for HDMI 4K x 2K is a compact and lightweight alternative to rack-mounted matrixes. It allows up to four Ultra High Definition 4K x 2K or Full HD 1080p sources to be routed to up to two Ultra HD displays. This product supports resolutions up to 4K x 2K (3840 x 2160@30Hz). HDCP, Deep Color, 3DTV pass-through, and lossless audio formats such as LPCM 7.1, Dolby® TrueHD, and DTS-HD Master Audio™ are also supported. Each Hi-Def source can be routed to either of the connected displays using the front panel push-button controls, the included IR remote, RS-232 serial control interface, or through IP, using Telnet, UDP, and the built-in web server interface. LED indicators on the top panel display the current routing status, FST mode, audio configuration, and EDID settings.

FST

Fast Switching Technology (FST) is a Gefen software implementation for HDMI products. FST eliminates the lengthy HDMI authentication process, and allows connecting/disconnecting or turning ON / OFF of HDTV displays without having these activities affect other displays in the same distribution system.

How It Works

Connect up to four Ultra Hi-Def sources to the HDMI inputs on the matrix using HDMI cables. Connect up to two Ultra HD displays to the HDMI outputs. Connect an Ethernet cable from the network to the RJ-45 connector to use the built-in web server or Telnet/UDP capability to control routing, EDID management, and other functions. Connect an RS-232 cable between an automation control device such as Gefen EXT-PACS and GTB-MINI-PACS and the matrix. Connect the included locking power supply to the matrix and to an available electrical outlet. Apply power to the sources and displays. The HD sources can now be routed to the displays using the front panel push-buttons, IR remote control, RS-232, Telnet, UDP, or web server interface.

Features*

- Routes four Ultra Hi-Def sources to two Ultra HD displays
- Supports resolutions up to Ultra HD 4K x 2K (3840 x 2160 @ 30Hz) and 1080p Full HD
- Supports 12-bit Deep Color
- 3DTV pass-through
- Lip Sync pass-through
- Push button controls for Routing, FST Modes, Audio, and EDID management
- FST Technology speeds up HDCP authentication process
- Advanced EDID Management for rapid integration of sources and displays
- Supports LPCM 7.1, Dolby® TrueHD, Dolby® Digital Plus, and DTS-HD Master Audio™
- Supports the use of DVI sources and DVI displays with HDMI-to-DVI adapters (not included)
- RS-232 Serial interface for remote control using a computer or automation control system
- IP control via Telnet, UDP, and the built-in web server interface
- IR remote control
- Field-upgradeable firmware via Mini-USB and IP ports
- Locking Power Supply
- Surface-mountable
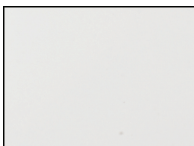- Available in Black or White

Specifications*

- Maximum Pixel Clock: 300 MHz
- HDMI Input Connectors: (4) Type A 19-pin female, locking
- HDMI Output Connectors: (2) Type A 19-pin female, locking
- USB Port: (1) Mini-B
- RS-232 serial port: (1) DB-9, female
- Ethernet (IP Control) Port: (1) RJ-45
- FST Selector: (1) tact-type, recessed push-button
- Audio Selector: (1) tact-type, recessed push-button
- EDID Selector: (1) tact-type, recessed push-button
- Routing Selectors: (2) tact-type push-buttons
- Power Indicator: (1) LED, blue
- FST Indicators: (2) LED, green
- Audio Indicators: (2) LED, green
- EDID Indicators: (3) LED, green
- Routing Indicators: (8) LED, green
- IR Sensor: (1), on front panel
- IR Extender Port: (1) 3.5mm mini-stereo jack
- DC Power Connector: (1) Locking type
- Power Supply: 5V DC
- Power Consumption: 13 Watts (max.)
- Operating Temperature: +32 to 104 °F (0 to +40 °C)
- Dimensions (W x H x D): 6.9" x 5.8" x 1.0" (175mm x 147mm x 26mm)
- Shipping Weight: 5 lbs. (2.3 kg)

GTB-HD4K2K-442-BLK (black)
GTB-HD4K2K-442 (white)

White finish   Black finish

Gefen, LLC | 20600 Nordhoff Street, Chatsworth CA 91311 | Tel. (818) 772-9100 (800) 545-6900 | Fax (818) 772-9120 | **www.gefentoolbox.com**