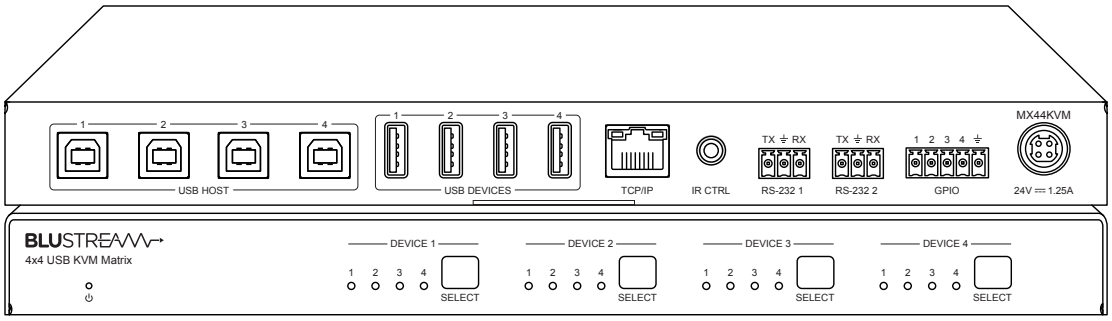
MX44KVM

Quick Reference Guide



Introduction

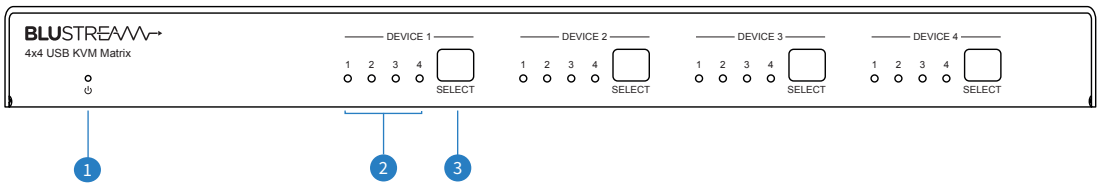
Our 4x4 USB 3.0 KVM Matrix offers unprecedented performance and value for the custom and commercial installation market. The MX44KVM is a USB 3.0 Matrix package allowing 4x USB peripheral devices to be shared between 4x host devices, supporting plug-and-play capabliities, and USB data transfer rates up to 5Gbps.

The Matrix provides advanced features including cascading of multiple MX44KVM units, GPIO functionality for 3rd party product triggers, an in-built web browser interface module for control and configuration of the Matrix, along with RS-232 for seamless control integration. An RS-232 loop-through connection allows for the MX44KVM to be intrinsically linked to any Blustream video matrix product for the addition of KVM support to our video-only switching products.

FEATURES:

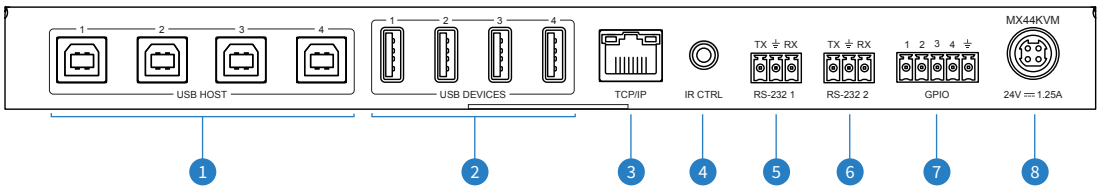
- 4x4 USB KVM Matrix allowing up to 4x USB peripheral devices to be shared between 4x host devices
- USB 3.0 conectivity with data transfer rates up to 5Gbps
- Backwards compatible with USB 2.0 and 1.1
- Plug-and-play with no drivers, downloads, or software required
- USB-A connections provide 5V 900mA
- Features 4x configurable GPIO ports for integration with 3rd party products
- Features RS-232 loop-through for repetition of incoming RS-232 commands to additional Blustream products
- Assignable inputs and outputs allowing automated switching when used with existing Blustream Matrix products
- Web interface module for control and configuration of the MX44KVM
- Control via front panel, IR, RS-232, and TCP/IP

Front Panel Description



1. Power LED - Illuminates blue when the device is powered on. Illuminates red when the device is powered off
2. Selection LED – The illuminated number correspnds to the USB Host the selected USB Device is routed to
3. Select Button - Press to cycle the selected USB Device through each USB Host output

Rear Panel Description



1. USB Host - Connects to USB port of Host device
2. USB Device - Connects to USB Devices or peripherals
3. TCP/IP - RJ45 connector for TCP/IP and Web-GUI control of the Matrix
4. IR Control Input - 3.5mm stereo connector to connect to Blustream IR receiver for IR control of the Matrix
5. RS-232 Port 1 - 3-pin Phoenix connector for direct RS-232 control of the Matrix
6. RS-232 Port 2 - 3-pin Phoenix connector for RS-232 pass-through to cascaded MX44KVM or a Blustream HDMI/HDBaseT Matrix
7. GPIO Port - 5-pin Phoenix connector for input sense/output relay/contact closure control of 3rd party devices
8. 24V/1.25A DC power input 4-pin DIN connector

Web GUI Control

The MX44KVM features an in-built Web GUI which can be used for control and configuration of the Matrix. By default the matrix is set to DHCP, however if a DHCP server (eg: network router) is not installed the matrix IP address will revert to below details:

Default **Username** is: blustream Default **Password** is: 1234 Default **IP Address** is: 192.168.0.200

For further information please see the MX44KVM User Manual - available to download from the Blustream website.

RS-232 Configuration

RS-232 port 1 is used for configuration and control of the product. RS-232 port 2 is used for cascading multiple MX44KVM units together to create a larger I/O KVM matrix system, or when used in conjunction with a Bustream AV matrix to add KVM switching to a larger system.

The default RS-232 communication settings are:

Baud Rate: 57600
Data Bit: 8
Stop Bit: 1
Parity Bit: none

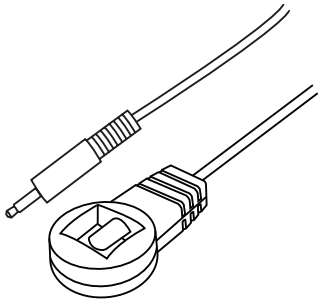
For a complete RS-232 command list please see the MX44KVM User Manual - available to download from the Blustream website.

Infrared (IR) Control

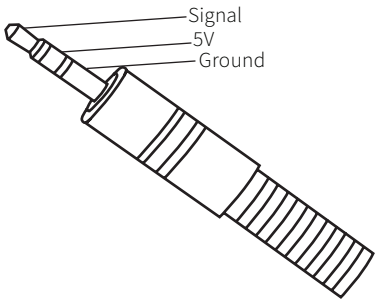
The Blustream range of matrix products include Matrix control via IR. **IMPORTANT: Blustream Infrared products are all 5V and NOT compatible with alternative manufacturers Infrared solutions. When using third party 12V IR control solutions please use the Blustream IRCAB cable for IR conversion.**

IR Receiver - IRR

Blustream 5V IR receiver to receive an IR signal for control of the matrix.



IR Receiver - Stereo 3.5mm

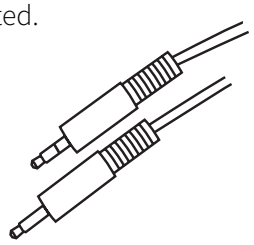


IR Control Cable - IRCAB (supplied)

Blustream IR Control cable 3.5mm Mono to 3.5mm Stereo for linking third party control solutions to Blustream products.

Compatible with 12V IR 3 party products.

Please Note: cable is directional as indicated.



GPIO Configuration

The GPIO (General Purpose Input / Output) connections allow for the configuration of the functionality of the GPIO ports on the MX44KVM. Each of the MX44KVM's four I/O ports can be configured as either Inputs (voltage sensing), or Outputs (contact closure or voltage trigger). Please refer to the MX44KVM User Manual available to download from the Blustream website for more information.

Specifications

- **USB Device Connectors:** 4 x USB Type A, female
- **USB Host Connectors:** 4 x USB Type B, female
- **RS-232 Serial Port:** 2 x 3-pin Phoenix connector
- **IR Input Ports:** 1 x 3.5mm stereo jack
- **TCP/IP Control Port:** 1 x RJ45, female
- **GPIO Port:** 1 x 5-pin Phoenix connector
- **Casing Dimensions (W x H x D):** 273mm x 168mm x 25mm
- **Shipping Weight:** 2.65KG
- **Operating Temperature:** 32°F to 104°F (-5°C to +55°C)
- **Storage Temperature:** -4°F to 140°F (-25°C to +70°C)
- **Power Supply:** 24V/1.25A DC, 4-pin DIN connector

Package Contents

- 1 x MX44KVM
- 1 x Mounting kit
- 1 x USB-A to USB-B cable
- 1 x IRR receiver
- 1 x IRCAB control cable - 3.5mm-3.5mm cable
- 2 x 3-pin Phoenix connector
- 1 x 5-pin Phoenix connector
- 1 x 24V/1.25A DC power supply
- 1 x Quick Reference Guide
- 4 x Isolation feet

NOTE: *Specifications are subject to change without notice. Weights and dimensions are approximate.*

Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.

Certifications

FCC NOTICE

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 installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

CAUTION - changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CANADA, INDUSTRY CANADA (IC) NOTICES

This Class B digital apparatus complies with Canadian ICES-003.
Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

CORRECT DISPOSAL OF THIS PRODUCT

This marking indicates that this product should not be disposed with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmentally safe recycling.