

4K UHD VIDEO OVER IP



Multicast UHD from Blustream will deliver virtually latency free distribution of HDMI video over a 1GB Network switch. Using lossless compression technology, Multicast delivers HDMI, Bi-directional IR and RS-232 up to lengths of 100m over a single CAT cable. The products can be powered via PoE from the Network switch or locally should the switch not support PoE. The beauty of Multicast is its flexibility and ease of installation. The industry has been crying out for an advanced IP solution that can be installed in minutes.

Blustream Multicast UHD has 4 operational modes

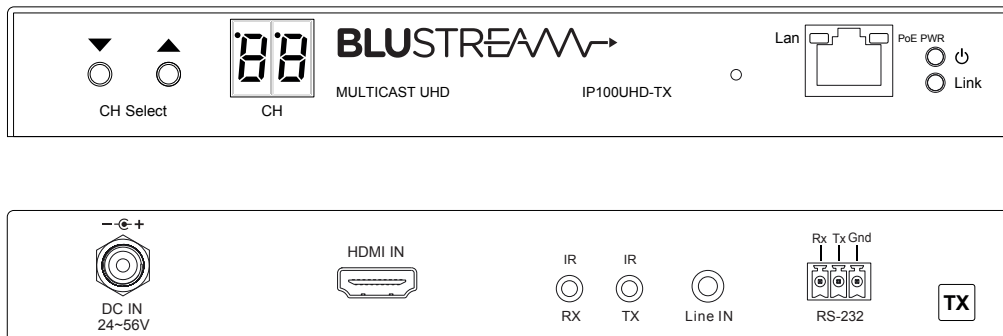
- Matrix distribution with unlimited configuration options (Requires 1GB network switch)
- Video wall presentation (Requires 1GB network switch)
- One-to-one HDMI extender (No network switch required)
- One-to-many HDMI distribution (No network switch required)

Key product features

- Supports 4K UHD video up to 100m
- Analogue L/R audio breakout
- LAN loop out for one-to-many extender mode
- Bi-directional IR and RS-232
- PoE (Power over ethernet) to power Blustream products from PoE switch
- Scaling capabilities for each receiver
- Supports all HDMI audio formats including Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission

IP100UHD-TX

IP Multicast UHD Video Transmitter over 1GB Network - Up to 100m, Bi-directional IR & RS-232, PoE and Analogue line-level input



Description

Our UHD Multicast distribution platform allows virtually latency free (1 frame) distribution of HDMI video over a 1GB Network switch. The IP100UHD-TX is an industry leading 4K HDMI transmitter that using lossless compression technology delivers HDMI, Bi-directional IR and RS-232 up to lengths of 100m over a single CAT cable. The IP100UHD-TX can be powered via PoE from the Network switch or locally should the switch not support PoE.

Specifications

Advanced UHD video over 1GB Network

Extends HDMI up to a distance of 100m over single CAT cable

Features 4 operational modes: - Matrix distribution (Requires 1GB network switch) / Video wall (Requires 1GB network switch) / One-to-one HDMI extender (No network switch required) / One-to-many HDMI extender (No network switch required)

Supports 4K UHD video up to 100m (3840 x 2160 @30Hz 4:4:4, 4096 x 2160 @24Hz 4:4:4, and 4K @60Hz 4:2:0)

Supports all industry standard video resolutions including VGA-WUXGA and 480i-4K

Supports all known HDMI audio formats including Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission

Bi-directional RS-232 pass through

Bi-directional IR from all input and output locations

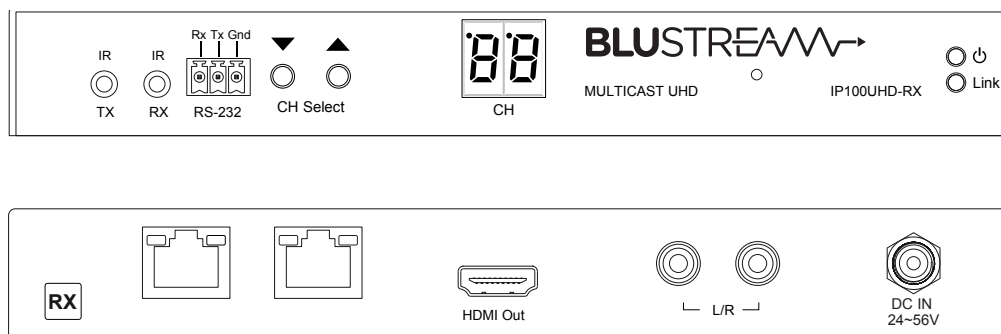
PoE (Power over Ethernet) to power Blustream products from PoE switch

HDCP 2.2 compliant

Advanced EDID management

IP100UHD-RX

IP Multicast UHD Video Receiver over 1GB Network - Up to 100m, Built-in video scaler, Video-wall mode, Bi-directional IR & RS-232, PoE and Analogue audio breakout



Description

Our UHD Multicast distribution platform allows virtually latency free (1 frame) distribution of HDMI video over a 1GB Network switch. The IP100UHD-RX is an industry leading 4K HDMI receiver that using lossless compression technology delivers HDMI, Bi-directional IR and RS-232 up to lengths of 100m over a single CAT cable. The IP100UHD-RX can be powered via PoE from the Network switch or locally should the switch not support PoE.

Specifications

Advanced UHD video over 1GB Network

Extends HDMI up to a distance of 100m over single CAT cable

Features 4 operational modes: - Matrix distribution (Requires 1GB network switch) / Video wall (Requires 1GB network switch) / One-to-one HDMI extender (No network switch required) / One-to-many HDMI extender (No network switch required)

Supports 4K UHD video up to 100m (3840 x 2160 @30Hz 4:4:4, 4096 x 2160 @24Hz 4:4:4, and 4K @60Hz 4:2:0)

Supports all industry standard video resolutions including VGA-WUXGA and 480i-4K

Supports all known HDMI audio formats including Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission

Bi-directional RS-232 pass through

Bi-directional IR from all input and output locations

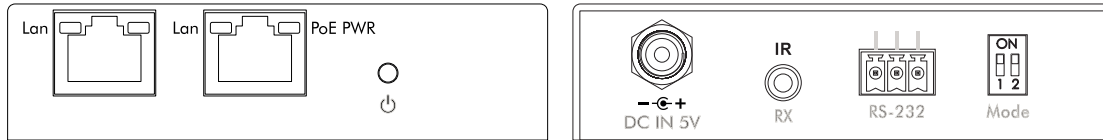
PoE (Power over Ethernet) to power Blustream products from PoE switch

HDCP 2.2 compliant

Advanced EDID management

CM-100

IP Multicast Control module for TCP/IP, RS-232 and IR control of Blustream Multicast systems



Description

Our UHD Multicast distribution platform allows distribution of HDMI video over a 1GB Network switch. The CM100 Control Module allows simple third party control of the Multicast system using TCP/IP, RS-232 or IR. The system wizard PC configuration program and pre-built Blustream product drivers simplify product installation and negate the need for an understanding of complex network infrastructures.

Specifications

Simple system configuration using Blustream Wizard PC program

2x RJ45 LAN connections to bridge existing network to Multicast video distribution network, resulting in:

Better system performance as network traffic is separated

No advanced network setup required

Independently configurable IP address per LAN connection

Allows simplified TCP/IP control of Multicast system

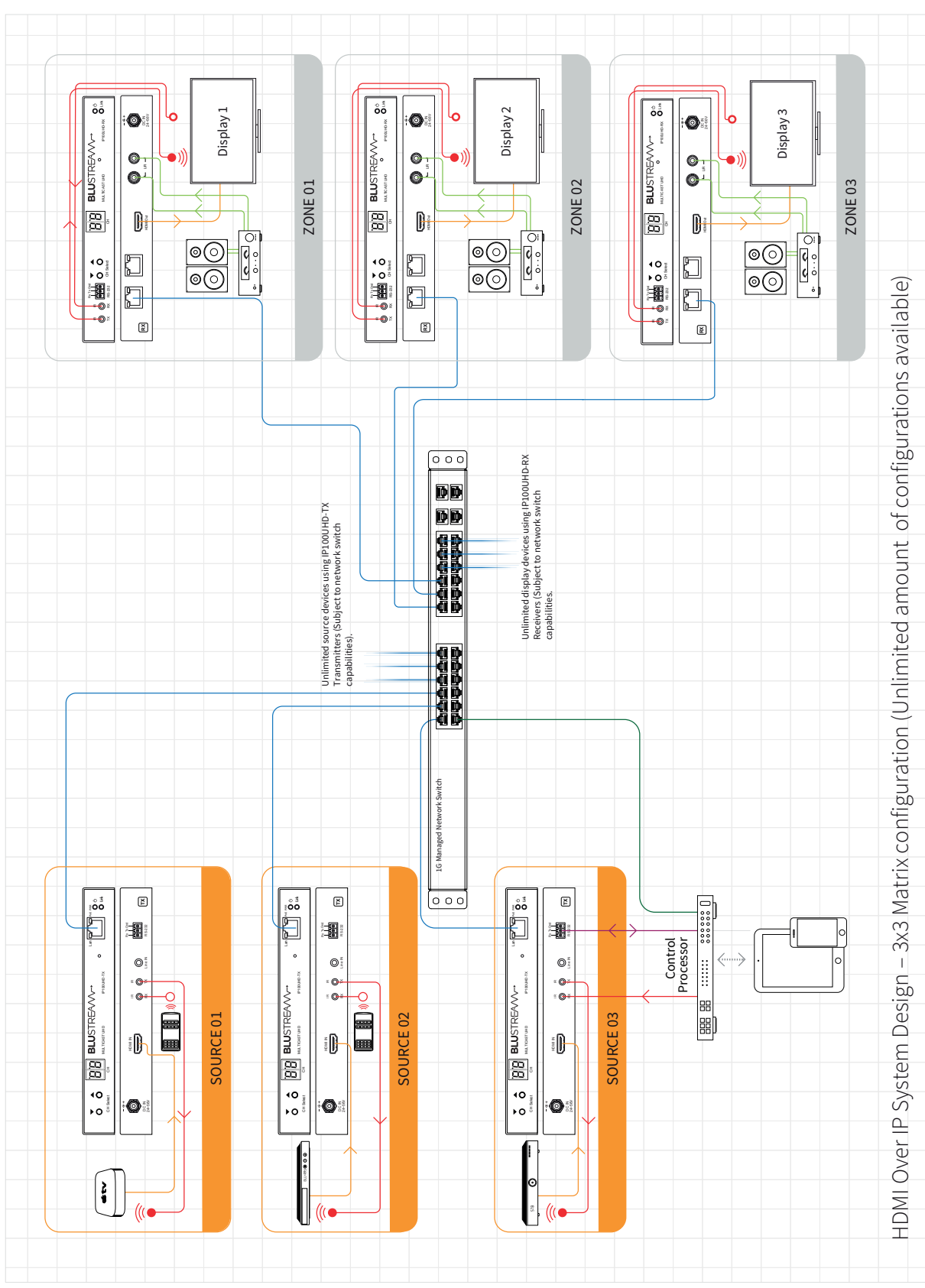
RS-232 integration for control of Multicast system

IR integration for control of Multicast system

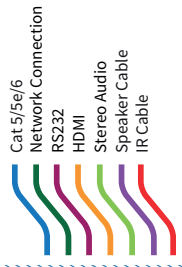
PoE (Power over Ethernet) to power Blustream product from PoE switch

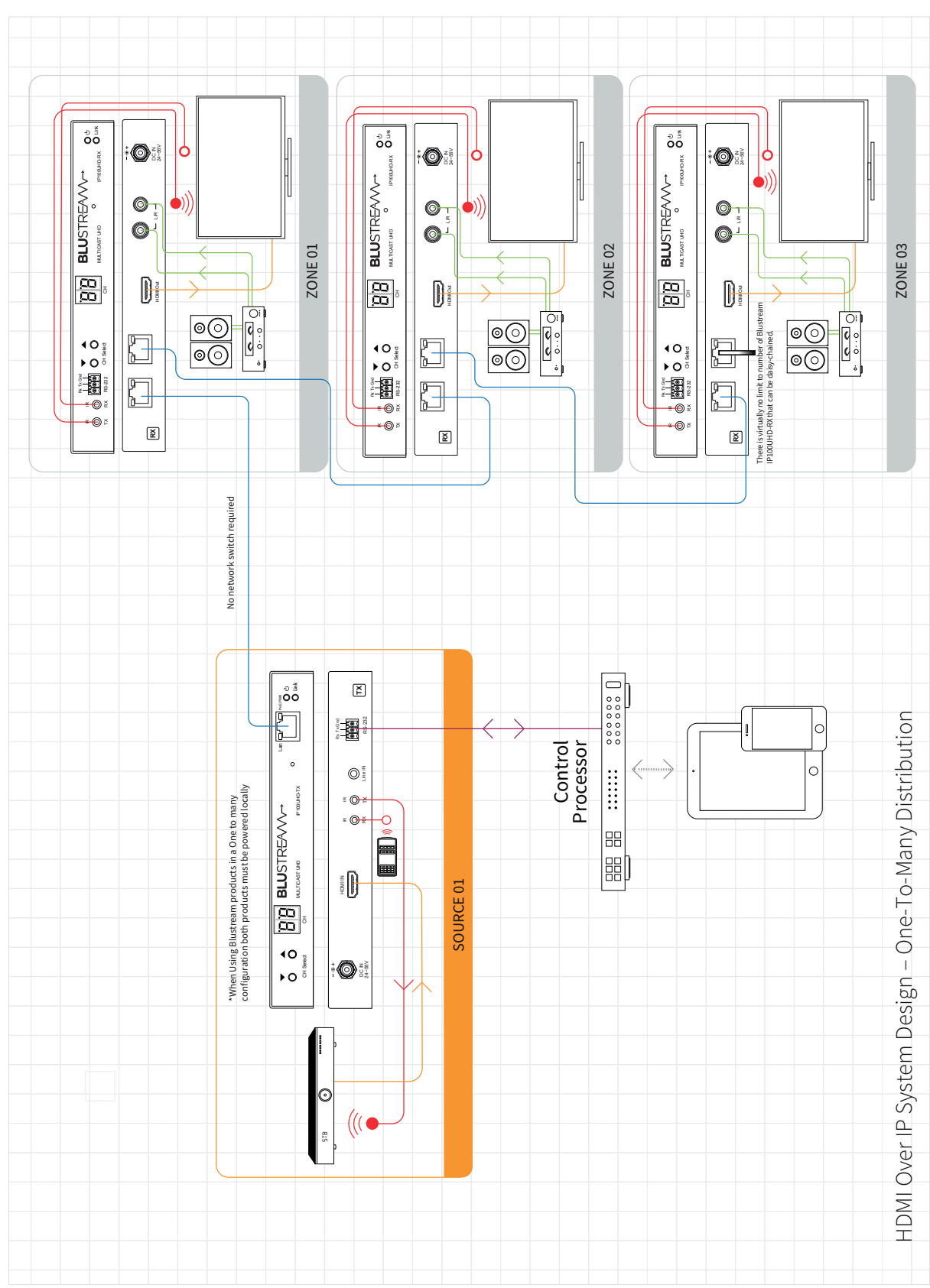
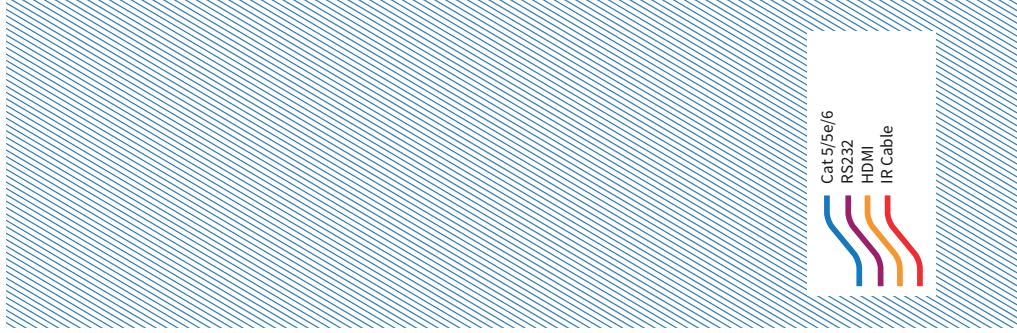
Local 5V power supply (optional) should Ethernet switch not support PoE

3rd Party drivers available for all major home control brands



HDMI Over IP System Design – 3x3 Matrix configuration (Unlimited amount of configurations available)

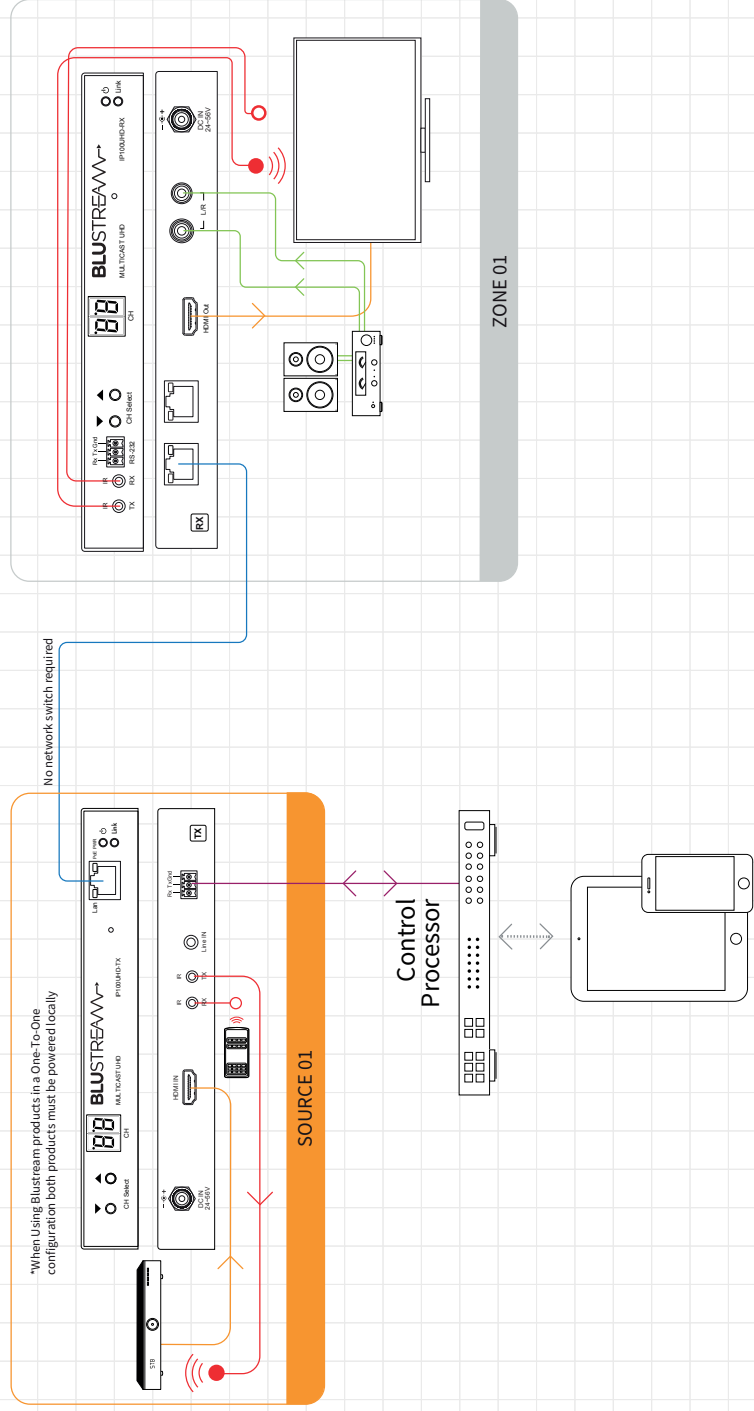
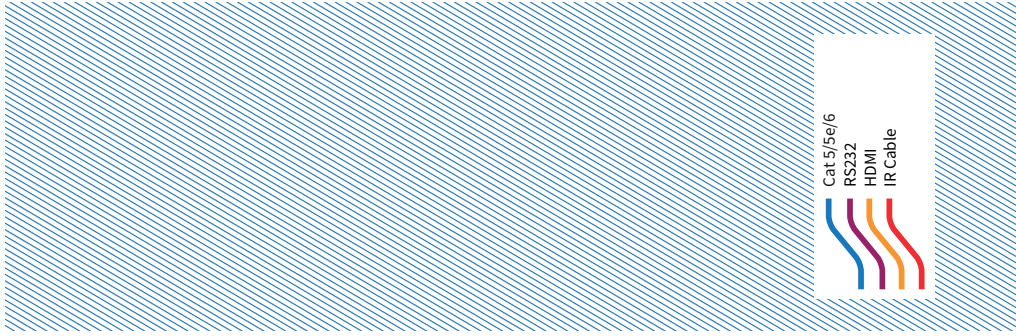




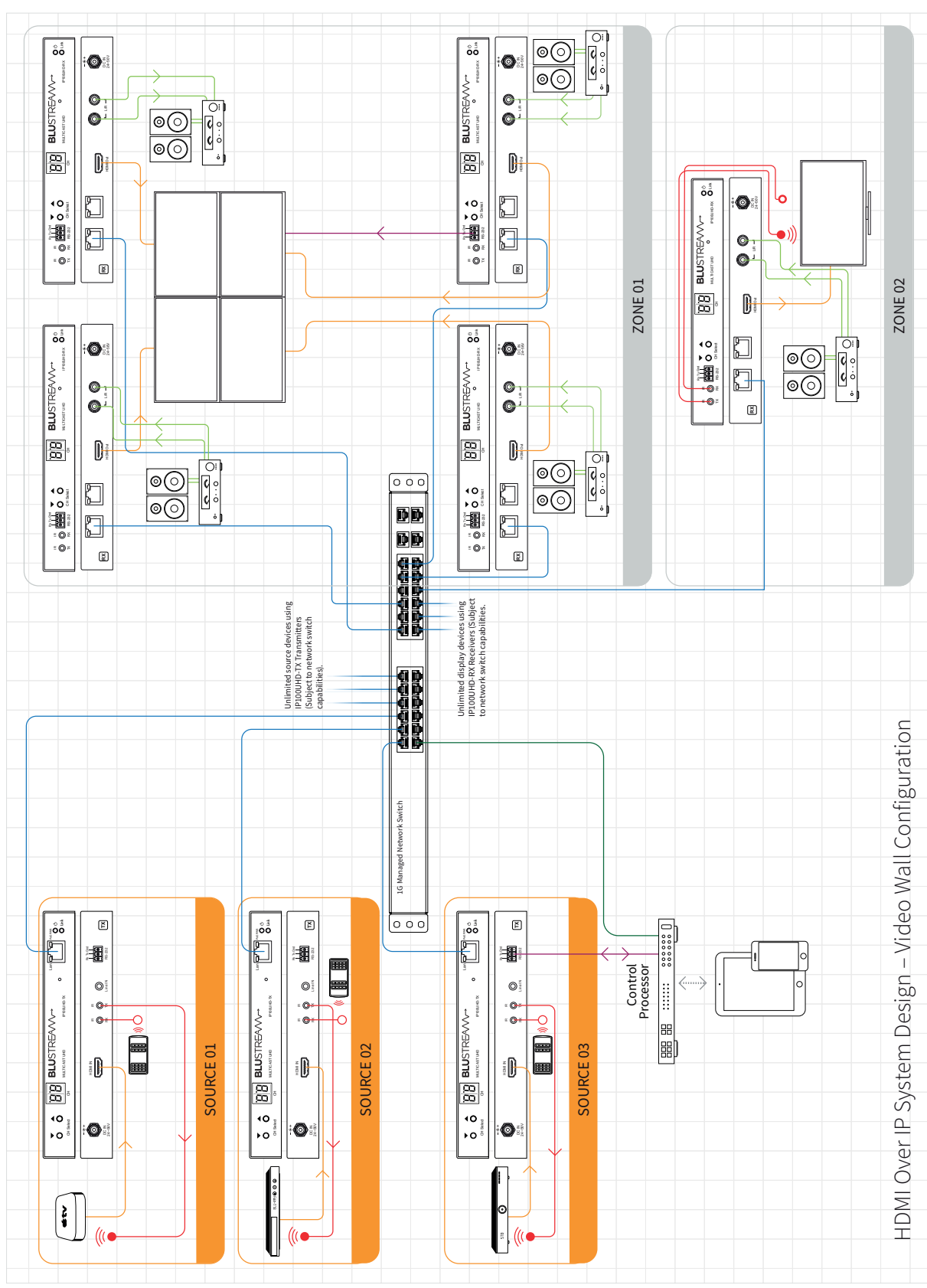
HDMI Over IP System Design – One-To-Many Distribution



Example Schematic
IP100UHD-RX/TX
One-To-One



HDMI Over IP System Design – One-To-One Distribution



HDMI Over IP System Design – Video Wall Configuration