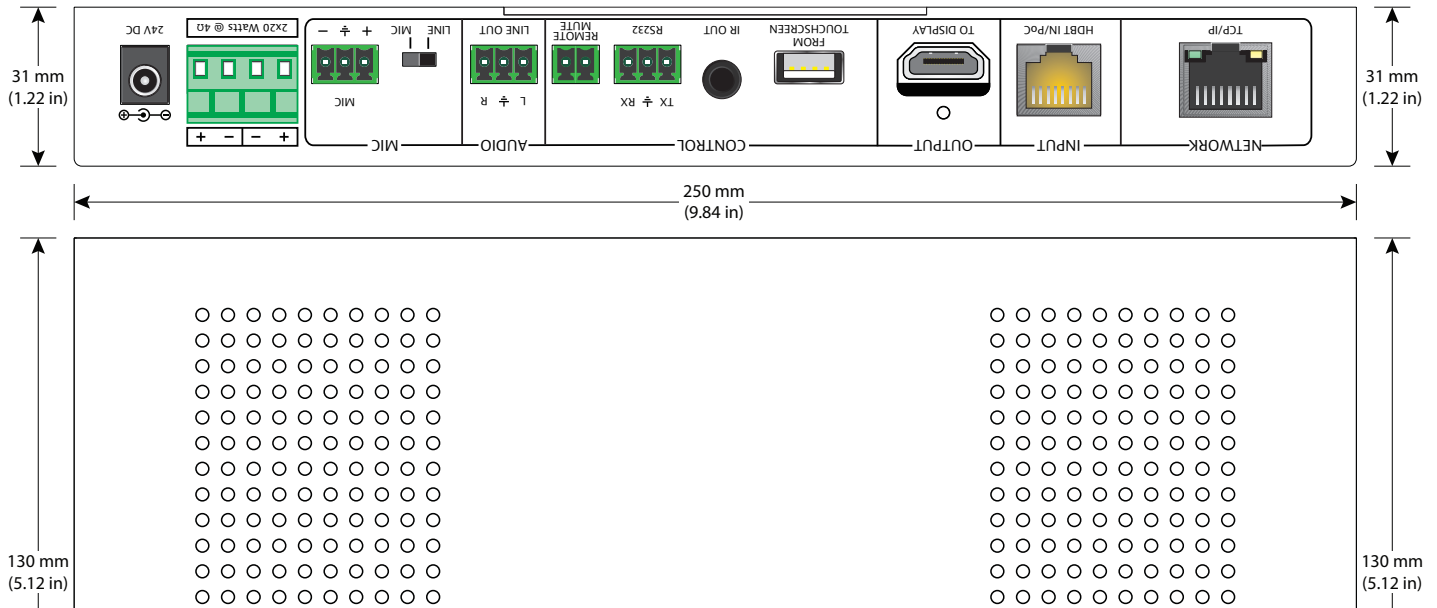


EDU-KIT-001 Technical Specifications

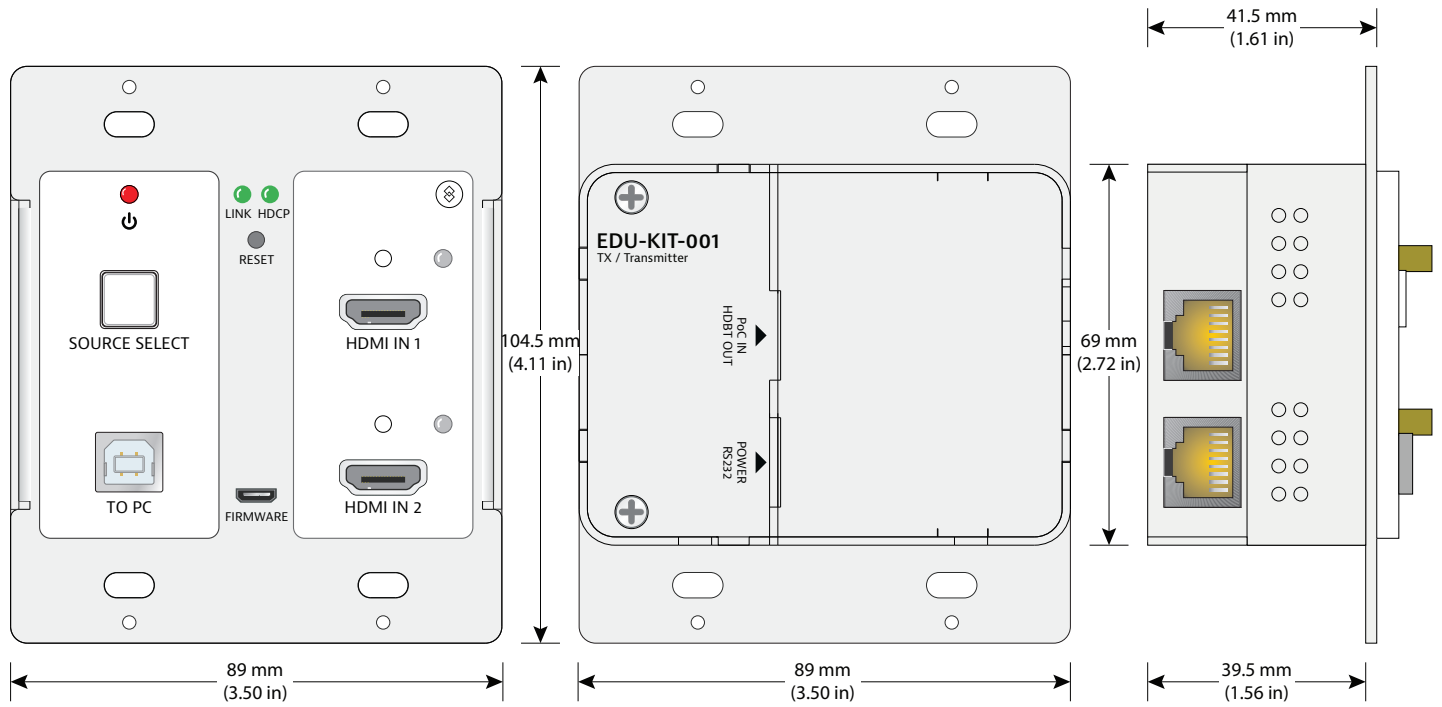
HDMI AV Distribution and Control System
 Rev 160523

The Digitalinx EDU-KIT-001 is a multi-function AV distribution system designed to provide HDMI video switching, system control, video extension and analog audio amplification in a convenient kit. Utilizing the Valens Colligo VS2110 series chips, power, control, video up to 1080p, and audio are transported over a single 30m (98 ft) solid core Category 5e cable between the wall plate transmitter and the receiver. The wall plate control module connects to the wall plate transmitter with a second Category 5e cable. All the power needed for the system is provided by the receiver. Additionally, the receiver features a built-in web GUI for control and analog audio de-embedding to a built-in 2x20 watt stereo amplifier.

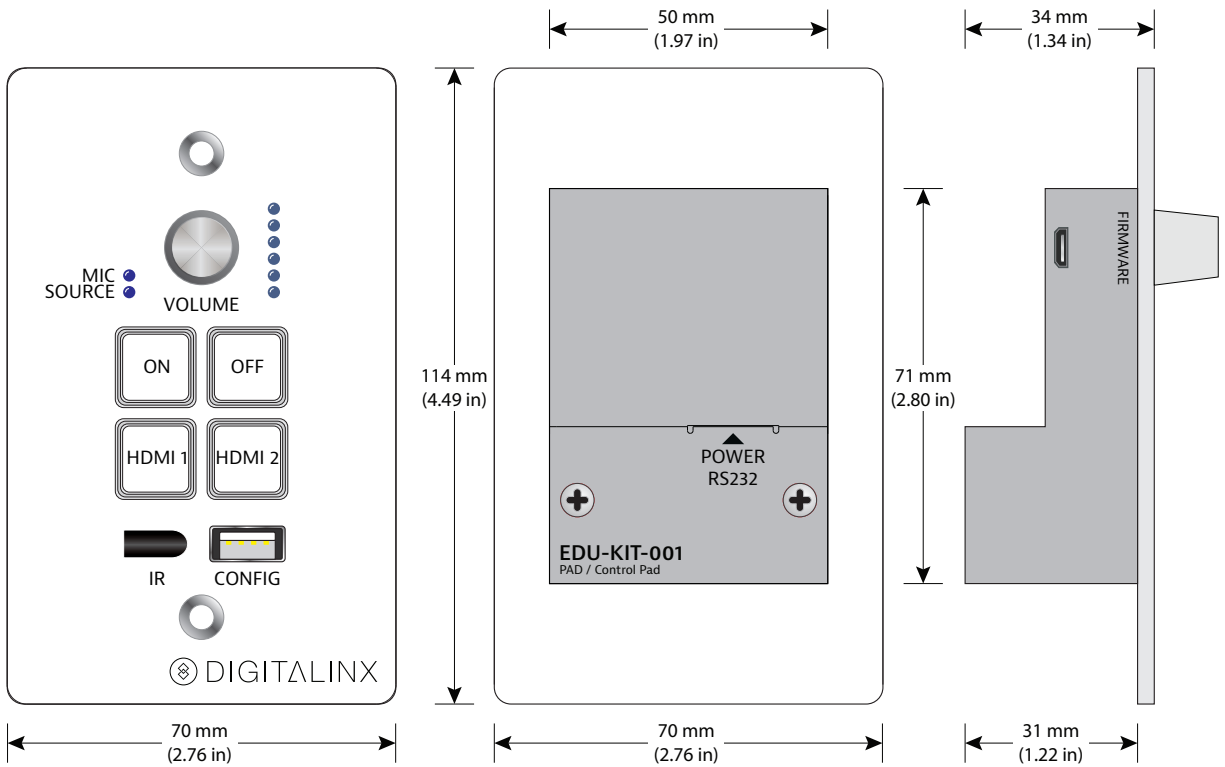
Receiver Module



Transmitter Module



Control Pad Module



Receiver I/O Connections	
Ethernet	One (1) 8P8C port (Shielded RJ45)
HDBaseT In/PoC Out	One (1) 8P8C port (Shielded RJ45)
HDMI Output	One (1) HDMI Type A Receptacle
USB from Display	One (1) USB Type A Receptacle
IR Output	One (1) 3.5mm TRS Jack
RS232 to Display Only	One (1) 3-Pole Removable Terminal Block
Remote Mute Contact Closures	One (1) 2-Pole Removable Terminal Block
Analog Audio Output, Line Level	One (1) 3-Pole Removable Terminal Block
Mic/Line Switch	One (1) Two Position Sliding Microswitch
Microphone Input	One (1) 3-Pole Removable Terminal Block
Analog Audio Output, Speakers	One (1) 4-Pole Removable Terminal Block
24V DC Power	One (1) Threaded Barrel (5.5 mm OD; 2.6 mm ID)
Firmware (Front Panel)	One (1) USB Type B Micro Receptacle
Receiver Status Indicators	
System Power	One (1) Green LED
HDBaseT Link	One (1) Green LED
HDCP Active	One (1) Green LED
Receiver Power	One (1) Red LED
Transmitter I/O Connections	
Source Select Button	One (1) Illuminating Momentary Push Button Switch
USB to PC	One (1) USB Type B Receptacle
HDMI Inputs	Two (2) HDMI Type A Receptacle
Firmware	One (1) USB Type B Micro Receptacle
Reset Button	One (1) Momentary Push Button Switch
HDBaseT Out/PoC In (Rear)	One (1) 8P8C port (Shielded RJ45)
Power/RS232 (Rear)	One (1) 8P8C port (Shielded RJ45)
Transmitter Status Indicators	
Transmitter Power	One (1) Red LED
HDMI Input 1 Active	One (1) Bi-Color LED (Green/Amber)
HDMI Input 2 Active	One (1) Bi-Color LED (Green/Amber)
HDBaseT Link	One (1) Green LED
HDCP Active	One (1) Green LED
Control Pad I/O Connections	
Volume Knob	One (1) Rotary Encoder
On, Off, HDMI 1, HDMI 2 Buttons	Four (4) Illuminating Momentary Push Button Switches
IR In	One (1) IR Receiver
Configuration Port	One (1) USB Type A Receptacle
Power/RS232 (Rear)	One (1) 8P8C port (Shielded RJ45)
Firmware (Side)	One (1) USB Type A Receptacle
Control Pad Status Indicators	
Microphone Active	One (1) Violet LED
Source Active	One (1) Violet LED
Active Volume Level	Six (6) Violet LEDs
Receiver HDBaseT Signal Characteristics	
Maximum Distance	30 m (98.4 ft)
Cable Requirements	Continuous solid core Category 5e or greater with TIA/EIA-568B crimp pattern (no couplers in-line)
Bandwidth	10.2 Gbps
HDBaseT Chipset	VS2110RX
Transmitter HDBaseT Signal Characteristics	
Maximum Distance	30 m (98.4 ft)
Cable Requirements	Continuous solid core Category 5e or greater with TIA/EIA-568B crimp pattern (no couplers in-line)
Bandwidth	10.2 Gbps
HDBaseT Chipset	VS2110TX

Receiver to Control Pad Connectivity	
Maximum Distance	30 m (98.4 ft)
Cable Requirements	Continuous solid core Category 5e or greater with TIA/EIA-568B crimp pattern (no couplers in-line)
Supported Audio, Video, and Control	
Maximum Video Compatibility	Deep Color 48/36/30/24 Bit at 1080p
Video Compliance	HDMI 1.4, HDCP 1.4
HDMI EDID	Pass-through from Display
Embedded Audio	Up to PCM 2 channel
Analog Audio Frequency Response	20Hz-20KHz
Analog Audio Output Impedance	50 Ω Analog Output; 4/8 Ω Speaker Output
Maximum Rated Power Output (Audio)	40 Watts
Maximum Passive HDMI Distance	5 m (16 ft)
IR Carrier Frequency Range	33-55kHz at 5 volts
RS232 Baud Rate	2400, 4800, 9600, 14400, 19200, 38400, 56000, 57600, and 115200 baud
Ethernet	100BaseT
USB	Supports USB 2.0 up to 100 Mbps
Contact Closure	NO and NC for system mute
Chassis and Environmental	
Enclosure Material	Painted aluminum
Receiver Dimensions (H x W x D)	31 mm x 250 mm x 130 mm (1.22 in x 9.84 in x 5.12 in)
Transmitter Overall Dimensions (H x W x D)	104.5 mm x 89 mm x 41.5 mm (4.11 in x 3.50 in x 1.61 in)
Transmitter In-Wall Dimensions (H x W x D)	69 mm x 89 mm x 39.5 mm (2.72 in x 3.50 in x 1.56 in)
Control Pad Overall Dimensions (H x W x D)	114 mm x 70 mm x 34 mm (4.49 in x 2.76 in x 1.34 in)
Control Pad In-Wall Dimensions (H x W x D)	71 mm x 50 mm x 31 mm (2.80 in x 1.97 in x 1.22 in)
Package Dimensions (H x W x D)	70 mm x 420 mm x 300 mm (2.76 in x 16.54 in x 11.81 in)
Shipping Weight	2.35 kg (5.2 lbs.)
Operating Temperature (Environment)	0° to +40° C (+32° to +104° F)
Operating Temperature (Chassis)	31° C (88° F) (S); 38° C (100° F) (R)
Operating Humidity (Environment)	20% to 90%, Non-condensing
Storage Temperature (Environment)	-10° to +60° C (+14° to +140° F)
Storage Humidity (Environment)	20% to 90%, Non-condensing
Power, ESD, and Regulatory	
Maximum Power Consumption	60 watts
Power Supply Input Voltage	100-240v AC at 50/60 Hz at 1.7 A
Power Supply Output Rating	24V DC at 2.5 A
ESD Protection	Contact discharge: \pm 15kV; Air discharge: \pm 8kV
Device Regulatory	CE, FCC, RoHS
Power Supply Regulatory	CE, RoHS, UL, TUV/GS, FCC, EAC, WEEE, CCC
Other	
Standard Warranty	2 Years
Included Items	Receiver, Transmitter, Control Panel, Locking Power Supply with Power Cable, USB Type A to Type B Cable, IR Emitter, Two Mounting Rails with Screws, Six Wall Box Screws, Three 3-pole Removable Terminal Blocks, One 2-pole Removable Terminal Block, One 4-pole Removable Terminal Block, Wall Plate for Transmitter, Installation Guide

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.