MuxLab

Overview

The HDMI 1x4 Distribution Hub (500420) allows one (1) HDMI source to be distributed to up to four (4) HDMI displays via two (2) Cat5e/6 cables. The product supports up to 150 ft (46m) at 1080p/8-bit via Cat5e cable on either side of the hub. The product supports remote IR control and works in conjunction with the HDMI IR/Extender (500405 [kit], 500406 [Tx] and 500407 [Rx]).
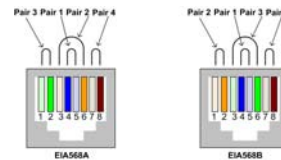
Applications

Commercial and residential AV systems
Classroom training systems
Digital signage
Boardroom systems
Medical video systems

Key Features

Distributes one HDMI source to up to 4 displays
Supports Cat5e/6 on input and output sides
Up to 150 ft (46m) @ 1080p via two (2) Cat5e
Up to 300 ft (91 m) @ 1080i via two (2) Cat5e
Up to 150 ft (46m) @ 1080p Deep Color via Cat6
Cascadable
Local HDMI output
Includes one (1) IR Emitter for IR source control
EDID configuration switch

Specifications	
Environment	HDMI 1.3a
Devices	DVD, plasma, projectors, monitors, TV, PC, laptops, home theatre, servers supporting HDMI.
Transmission	Transparent to the user.
Signals	HDMI 1.3a protocol
Connectors	Source Input: One (1) HDMI receptacle. One (1) UTP/STP input via a pair of RJ45 connectors Local Output: One (1) HDMI receptacle. Distributed Outputs: Eight (8) RJ45S for Cat 5e/6 unshielded or shielded twisted pair. Note: HDMI cables not included.
Maximum Distance *Based on a maximum length of 6.6 ft (2 m) of HDMI cable per end.*	480i/p: Cat 5e: 300 ft (91 m) Cat 6: 300 ft (91 m) 720p, 1080I: Cat 5e: 300 ft (91 m) Cat 6: 300 ft (91 m) 1080p: Cat 5e: 150 ft (46 m) Cat 6: 200 ft (61 m) 1080p Deep Color: Cat 5e: 90 ft (27 m) Cat 6: 150 ft (46 m) Note 1: When installed in an electrically noisy environment, an STP cable must be used. Also, cross-connection reduces the effective distance depending on the grade of twisted cable used. Note 2: These distances are valid both at the UTP input and the UTP output of the hub. For example, there can be a distance of 150ft before AND 150ft after the hub to distribute 1080p Deep Colour over CAT6.
RJ45 Pin Configuration *Reverse Polarity Sensitive.* *Use EIA/TIA 568A or 586B straight-through wiring.*	RJ45 A (HDMI A or B) Pin 1 [R] Pin 2 [T] Pin 3 [R] Pin 6 [T] Pin 4 [R] Pin 5 [T] Pin 7 [R] Pin 8 [T]
Cable	Two (2) Cat 5e/6 or better twisted pair cables required per port
Power Supply	One (1) 110-240V/12VDC 1.25A power supply with interchangeable blades
Compatible Tx/Rx Devices	500405 (kit), 500406 (Tx), 500407 (Rx)
Power Consumption	15 Watts
EDID Configuration Switch	Sets hub to support 4 different EDID configurations.
IR Remote	Includes one (1) IR Emitter (500998) and one (1) IR Sensor (500999).
LED Diagnostics	Power (blue), HDMI Source (Orange), HDMI Local Out (orange), Display Out 1 to 4 (green)
Temperature	Operating: 0º to 40º C. Storage:-20º to 85º C. Humidity: up to 95% non-cond.
Dimensions	1 Unit rack mountable: 19" x 6.75" x 1.75" (48.26 cm x 17.15 cm x 4.45 cm)
Weight	3.3 lbs (1.5 kgs)
Compliance	FCC, CE-EMC Directive 89/336/EEC, RoHS, WEEE
Warranty	2 years
Order Information	500420 HDMI 1x4 Distribution Hub

Typical Applications