MuxLab BROADCAST™

YOUR #1 CHOICE FOR BROADCAST CONNECTIVITY SOLUTIONS

2017 Product Guide

Broadcast

CONNECTIVITY SOLUTIONS

MuxLab's mission

Established in 1984

MuxLab is a leading designer of value-added connectivity hardware for the Pro AV, Broadcast, and CCTV markets. Since 1984, we have continued to support our main mission to provide our customers with innovative and industry leading designs and the dependability you need.

MuxLab understands the need for quality, performance, and reliability and we design & engineer all of our products in Canada with this focus in mind. For over 30 years, MuxLab has been at the forefront of the advances in signal distribution and connectivity. Keeping up with emerging technology, our goal is to provide easy to use and affordable solutions for transferring all forms of Audio/Video, Broadcast, and CCTV signals.

Let us join you on your next installation and help transmit your signals with ease.

Sincerely,

Daniel Assaraf
President
Montreal, Canada

Proud to be Canadian

MuxLab is proud to design and engineer its products in Canada, by Canadian professionals. We create jobs and support local manufacturing, something we're proud of today and every day.

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6G-SDI Extenders

6G-SDI Extender Kit over UTP

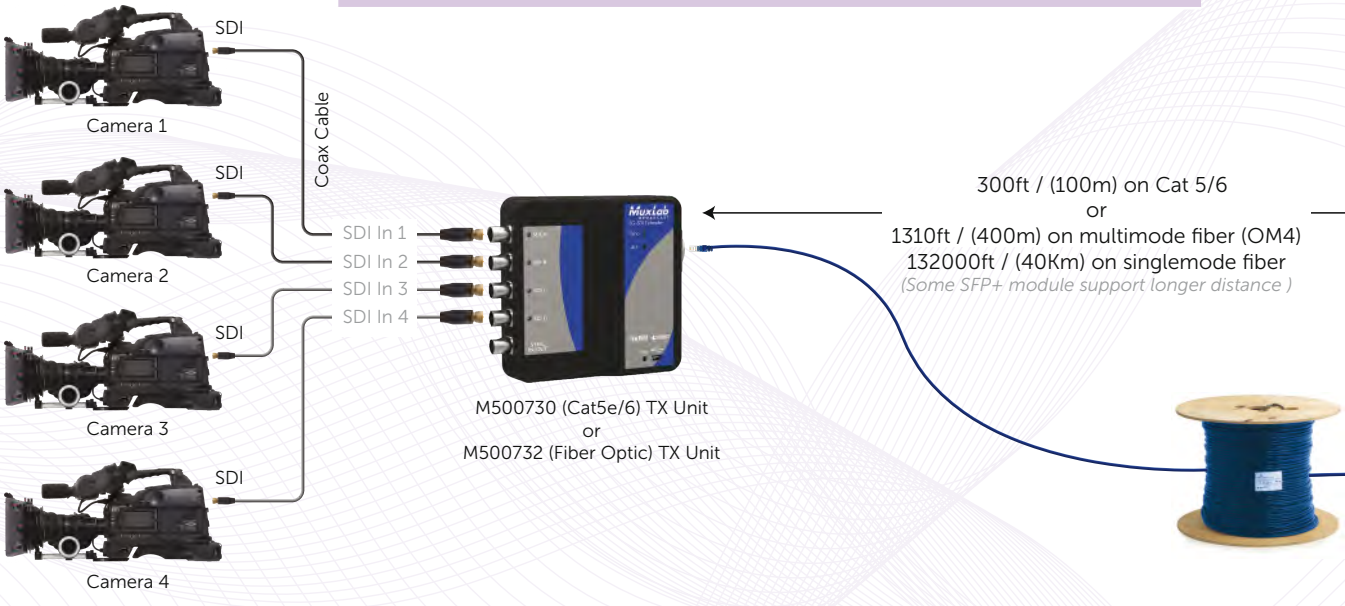
Part # 500730

The 6G-SDI Extender over UTP is a unique new solution from MuxLab for extending SDI cameras or other SDI sources up to 4K @ 30Hz resolution with the added benefit of extending the Hi-Resolution signal up to 330ft (100m) using HDBaseT technology. Standard Cat5e/6 UTP cable is used for the extension. The pair of units (Transmitter and Receiver) use PoE for power and only require the Receiver (Rx) side to be powered. The 6G-SDI Extender can extend four (4) HD-SDI signals, two (2) 3G-SDI signals , or one (1) 6G-SDI signal.

Application	Video production, broadcasting, camcorder, studio-to-studio, postproduction, live events, medical imaging displays, mobile video, SDI routing, SDI-CCTV, medical imaging
Key Features	Up to 330ft (100m) using HDBaseT technology
	Supports one 6G-SDI source, two 3G-SDI sources, or four HD-SDI sources
	Maximum resolution supported: 4K @ 30Hz
	Supported modes: SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M, SMPTE 425M, SMPTE ST-2081
	Supports all 6G channel configurations (1/2/4)
	Automatic SDI Link recognition and configuration
	Automatic activation of long reach mode 500ft (150m) when an 3G signal is detected
	USB interface for field upgradable firmware and diagnostics
	PoE powered, power Transmitter from Receiver
	Ethercon Connectivity for ruggedized usage
	3/8"-20 mounting holes

6G SDI · HDBT · Cat5e/6 · 4K UHD-4K · PoE

4K UHD COMPATIBLE



6G-SDI Extender over Fiber Optic

Part # 500732

The 6G-SDI Extender over Fiber Optic is a unique solution from Muxlab for extending SDI based cameras or other SDI sources up to 4K @ 30Hz resolution. The 6G-SDI Extender can extend four (4) HD-SDI sources, two (2) 3G-SDI sources, or one (1) 6G-SDI source.

Application	Video production, broadcasting, camcorder, studio-to-studio, postproduction, live events, medical imaging displays, mobile video, SDI routing, SDI-CCTV, medical imaging
Key Features	985ft (300m) OM3 Fiber (500732)
	1310ft (400m) OM4 Fiber (500732)
	13000ft (10km) Singlemode fiber (500732-SM-10)
	132000ft (40km) Singlemode Fiber (500732-SM-40)
	264,000ft (80km) Singlemode Fiber (500732-SM-80)
	Supported modes: SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M, SMPTE 425M, SMPTE ST-2081
	Supports all 6G channel configurations (1/2/4)
	Automatic SDI Link recognition and configuration
	USB interface for field upgradable firmware and diagnostics
	Ethercon Connectivity and Aluminum Enclosure for ruggedized use
	Supports RS232 over Fiber Optic
	HDMI port on receiver unit (display side)

Typical Application 500730, 500732

6G-SDI Extender Over UTP with Ethernet

Part # 500733

The 6G-SDI Extender over UTP is a unique solution from MuxLab for extending SDI cameras or other SDI sources up to 4K resolution at up to 330ft (100m) using standard Cat5e/6 UTP cable. This multichannel extender supports up to 6Gbps of data throughput over the UTP link and allows for versatile combinations of sources, including one 6G-SDI source, two 3G-SDI sources or four HD-SDI sources, plus transmission of two Ethernet signals which may be used as return channels, and a bi-directional RS232 pass-through. The Ethernet port of the 500733 can be used for AV monitoring and talk-back, while the RS232 pass-through supports return of tally light, camera control unit (CCU) and control of end devices.

Application	Video production, broadcasting, camcorder, studio-to-studio, postproduction, live events, medical imaging displays, mobile video, SDI routing, SDI-CCTV, medical imaging
Key Features	Extend up to 4K @ 30Hz to 330ft (100m) over Cat5e/6
6G SDI · Cat5e/6 · 4K UHD-4K · PoE · Ethernet	Multichannel support for one 6G-SDI source, two 3G-SDI sources, or four HD-SDI sources
	Transmits two Ethernet signals which may be used as a return channel for AV monitoring and talk-back
	Supports RS232 pass-through for remote control and for tally light and camera control unit (CCU)
	Supported modes: SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M, SMPTE 425M
	Supports all 6G channel configurations (1, 2 or 4 BNC)
	Automatic SDI Link recognition and configuration
	Automatic activation of long reach mode 500ft (150m) when 3G signal detected
	Transmitter may be PoE powered from Receiver
	Ethernet port1 can power a PoE device
	USB interface for field upgradable firmware & diagnostics
	Ethercon connectivity and aluminum casting enclosure for ruggedized use

6G-SDI Extender Over Fiber Optic with Return Channel

Part # 500734

The 6G-SDI Extender over Fiber Optic with Return Channel is a unique solution from MuxLab for extending SDI sources up to 4K resolutions to a distance of up to 400m (1300ft) of OM4 multi-mode fiber (500734), 10km (33,000ft) of single-mode fiber (500734-SM10), 40km (132,000ft) of single-mode fiber (500734-SM40), and 80km (264,000ft) of single-mode fiber (500734-SM80). The product can transmit up to 9Gbps of data throughput over the fiber link, and supports simultaneous transmission of mixed signals such as one 6G-SDI signal + one 3G-SDI, or two 3G-SDI signals + two HD-SDI signals, and many other combinations. The device supports one input and one output SDI port, plus three directional SDI ports that can be individually configured. The SDI return channel may be used for AV monitoring and talk-back, while the RS232 pass-through supports return of tally light, camera control unit (CCU) and control of end devices.

Application	Video production, broadcasting, camcorder, studio-to-studio, postproduction, live events, medical imaging displays, mobile video, SDI routing, SDI-CCTV, medical imaging
Key Features	Extend up to 4K @ 30Hz resolution from 300m to 80km over multimode or singlemode fiber
6G SDI, Cat5e/6, 4K UHD-4K, PoE, Ethernet, Return Channel, Mix Modes, 9Gbps Over Fiber Link, Directional Ports	Supports multichannel transmission, and can simultaneously transmit up to 9Gbps of data
	Accepts mixed signal transmission up to one 6G-SDI signal + one 3G-SDI, or two 3G-SDI signals + two HD-SDI signals, and many other combinations in any direction, including the return channels
	Supports one input and one output SDI port, plus three configurable directional SDI ports
	Supports RS232 pass-through for remote control and as a return channel for tally light and camera control unit (CCU)
	Supported modes: SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M, SMPTE 425M, SMPTE ST-2081
	Supports all 6G channel configurations (1, 2, or 4 BNC)
	Automatic SDI Link recognition and configuration
	400m (1300ft) using OM4 multi-mode fiber (model 500734)
	10km (33,000ft) using single-mode fiber (model 500734-SM10)
	40km (132,000ft) using single-mode fiber (model 500734-SM40)
	80km (264,000ft) using single-mode fiber (model 500734-SM80)

6G-SDI / 3G-SDI / HD-SDI Baluns & Extenders

HD-SDI Balun

Part # 500701/500701-2PK

The HD-SDI Balun allows one HD-SDI signal to be transmitted up to 150ft (45m) via Cat5e/6 cable at HD resolution in a point-to-point configuration. The HD-SDI Balun supports transmission of up to 1.5Gbps uncompressed, un-encrypted digital video (optionally including embedded Audio and/or Time Code) within television facilities and between professional video equipment.

Application	Video production, broadcasting, HD camcorder, studio-to-studio, post-production, live events, medical imaging displays, mobile video, HD/SD routing, HD-CCTV, medical imaging
Key Features	Supports SD and HD resolutions
Cat5e/6 HD SDI	Up to 150ft (45m) via Cat5e/6 cable @ HD (720p/1080i)
	Up to 400ft (122m) via Cat5e/6 cable @ SD
	Cast aluminum enclosure for EMI/RFI shielding

3G-SDI Extender Kit

Part # 500700

The 3G-SDI Extender allows 3G-SDI to be transmitted up to 330ft (100m) via Cat5e/6 cable in a point-to-point configuration. The 3G-SDI Extender supports transmission of up to 2.97/3.0Gbps uncompressed, un-encrypted digital video (optionally including embedded Audio and/or Time Code) within television facilities and between professional video equipment.

Application	Video production, broadcasting, camcorder, studio-to-studio, post-production, live events, medical imaging displays, mobile video, SDI routing, SDI-CCTV, medical imaging
Key Features	Up to 330ft (100m) via Cat5e cable
3G SDI Cat5e/6	Up to 400ft (122m) via Cat6 cable
	Supports SDI-SMPTE 259M-C (270Mbps) HD-SDI-SMPTE 292M (1. 485, 1.485/1.001 Gbps) HD-SDI-SMPTE 424M/425M (2.97/3.0 Gbps)
	LED diagnostics: sync, SDI detect

LongReach™ 3G-SDI Extender Kit

Part # 500702

The LongReach™ 3G-SDI Extender Kit features LED diagnostics for sync, signal detect and supports transmission of up to 2.97/3.0 Gbps uncompressed, un-encrypted digital video within television facilities and between professional video equipment. It extends 3G-SDI signals up to 500ft (152m) via Cat5e/6 cable in a point-to-point configuration.

Key Features	
3G SDI, Cat5e/6	Up to 500ft (152m) via Cat5e/6 cable
	Supports cost-efficient HDMI displays versus more costly 3G-SDI monitors
	Supports SDI-SMPTE 259M-C (270Mbps) HD-SDI-SMPTE 292M (1. 485, 1.485/1.001 Gbps) HD-SDI-SMPTE 424M/425M (2.97/3.0 Gbps)
	LED diagnostics: sync, SDI detect

3G-SDI to HDMI Extender Kit

Part # 500715

The 3G-SDI to HDMI Extender Kit (500715) converts 3G-SDI to HDMI and then transmits it up to 330ft (100m) via Cat5e/6 cable at all resolutions in a point-to-point configuration. The 3G-SDI to HDMI Extender supports transmission of up to 2.97/3.0Gbps uncompressed, un-encrypted digital video (optionally including embedded Audio and/or Time Code) within television facilities and between professional video equipment.

Key Features	
3G SDI, HDMI, Cat5e/6	Up to 330ft (100m) via Cat5e cable
	Up to 400ft (122m) via Cat6 cable
	Supports cost-efficient HDMI displays versus more costly 3G-SDI monitors
	Supports SDI-SMPTE 259M-C (270Mbps) HD-SDI-SMPTE 292M (1. 485, 1.485/1.001 Gbps) HD-SDI-SMPTE 424M/425M (2.97/3.0 Gbps)
	LED diagnostics: sync, SDI detect

LongReach™ 3G-SDI to HDMI Extender Kit

Part # 500716

The LongReach™ 3G-SDI to HDMI Extender Kit converts 3G-SDI to HDMI and then transmits it up to 500ft (152m) via Cat5e/6 cable at all resolutions in a point-to-point configuration.

Key Features	Up to 500ft (152m) via Cat5e/6 cable
3G SDI, HDMI, Cat5e/6	Supports SDI-SMPTE 259M-C (270Mbps) HD-SDI-SMPTE 292M (1.485, 1.485/1.001 Gbps) HD-SDI-SMPTE 424M/425M (2.97/3.0 Gbps)
	LED diagnostics: Power, Sync detect

3G-SDI Fiber Extender Kit

Part # 500710

The 3G-SDI Fiber Extender Kit (500710) allows one 3G-SDI channel to be transmitted up to 19mi (30km) via one singlemode fiber in a point-to-point configuration. The 3G-SDI Fiber Extender supports transmission of up to 2.97/3.0Gbps uncompressed, un-encrypted digital video within television facilities and between professional video equipment. The 500710 includes a Hirose power cable for SDI camcorder applications and comes with a hard plastic carry case.

Application	Video production, broadcasting, camcorder, studio-to-studio, post-production, live events, medical imaging displays, mobile video, SDI routing, SDI-CCTV, medical imaging
Key Features	Up to 19mi (30km) via one singlemode fiber
3G SDI, Fiber Optic	Supports up to 3G-SDI
	LED diagnostics: Power, Sync detect
	Includes Hirose power cable
	Includes hard plastic carry case

6G-SDI Fiber Extender Kit

Part # 500712

The 6G-SDI Fiber Extender Kit allows 6G-SDI to be transmitted up to 60,000ft (20km) via a one singlemode fiber cable in a point-to-point configuration at all specified bit rates. The 6G-SDI Fiber Extender Kit supports transmission of up to 6.0Gbps of digital video within television broadcasting facilities and between professional video equipment.

Application	Video production & Broadcasting, Studio-to-studio & Post production, Outside broadcasting vehicle, Mobile video & Live Events, SDI camcorder, Medical imaging display, 6G/3G/HD-SDI routing, 6G/3G/HD-SDI CCTV
Key Features	Supports 6G/3G/HD-SDI signals
6G SDI, Fiber Optic, 4K UHD-4K	Supports up to 4K/30 video
	Extend transmission up to 60,000ft (20km) over singlemode fiber
	LED diagnostics: Power, Sync detect

3G-SDI to HDMI Converter

Part # 500717

The 3G-SDI to HDMI Converter allows SDI equipment to be connected to an HDMI Display. The unit converts the SDI signal to HDMI, supporting resolutions of 480i (SD-SDI), 720p/1080i (HD-SDI) and 1080p (3G-SDI). The 3G-SDI to HDMI Converter provides a low jitter and re-clocked outputs allowing for unit daisy chain.

Key Features	Auto 3G/HD/SD-SDI detection & conversion
3G SDI, HDMI	View SDI source video on a lower cost HDMI display
	Supports up to 1080p
	3G-SDI up to 300ft (90m) via RG59 coax
	Low jitter & re-clocked output
	Supports daisy chain
	Wall mountable
	LED diagnostics

SDI over IP Extended Distribution

3G-SDI / RS232 over IP Extender Kit with PoE

Part # 500756

The 3G-SDI / RS232 over IP Extender Kit with PoE allows SDI equipment to be connected over an IP network @ 1080p in a point-to-point configuration, with Transmitters and Receivers connected up to 330ft (100m) from an Ethernet Switch. Point-to-Multipoint, and Multipoint-to-Multipoint is possible by connecting several Transmitters and Receivers to the same network. Supports 100's of Transmitters and Receivers on a single network, depending on network bandwidth. The unit supports PoE (PD) and may be powered by a PoE (PSE) Ethernet Switch.

Key Features	
3G SDI, PoE, 1 Way IR, RS232	Supports up to 1080p resolutions
	Motion JPEG compression with very low latency
	Supports RS232 and one way IR transmission for remote control
	Transmission over an IP Network, at up to 330ft (100m) from the Ethernet Switch
	Supports 100's of Transmitters and Receivers depending on network bandwidth
	PoE powered
	Control via Windows-browser or via a web device (mobile, tablet)
	May be controlled using model 500811 (Pro Digital Network Controller)

Control of MuxLab IP Products

Pro Digital Network Controller

Part # 500811

The Pro Digital Network Controller is a Linux-based PC that allows users to control hub-installed MuxLab over IP products via an Ethernet Web interface. When installed on a LAN, the Pro Digital Network Controller can scan for MuxLab over IP products and allows the user to configure and control these products over the network.

Key Features	
Ethernet, RS232	Centralizes control of MuxLab AV over IP products
	Provides a web interface to manage & control MuxLab products
	Provides a mobile web interface for smartphones and tablets
	Provides control APIs for third party control integration
	Supports I/O presets to be configured
	Serves as a base platform to develop automation control applications
	Supports Software upgrades

Dante/Quad Channel Audio PoE Gateway

Part # 500765

The Dante/Quad Channel Audio PoE Gateway permits non-Dante compatible analog audio equipment to interface with Dante compatible professional audio equipment. The unit allows Dual two-channel or Quad single-channel full range (20Hz to 20KHz) balanced analog audio signals to be transmitted over the network to Dante compatible professional audio equipment. Dual two-channel or Quad single-channel balanced analog audio signals may also be received from Dante compatible equipment in the same manner. The unit may be connected via Cat5e/6 cable up to 330ft (100m) from an Ethernet Switch.

Application	Video production & Broadcasting, Studio-to-studio & Post production, Outside broadcasting vehicle, Mobile video & Live Events, SDI camcorder, Medical imaging display, 6G/3G/HD-SDI routing, 6G/3G/HD-SDI CCTV
Key Features	Interface analog audio equipment to Dante audio equipment
	Supports Quad single-channel full range balanced analog audio from 20Hz to 20KHz
	Transmission up to 330ft (100m) over Cat5e/6
	Supports Quad single-channel balanced analog audio-in and Quad single-channel balanced analog audio-out from Dante audio equipment.
	Balanced audio ports may be interfaced to unbalanced audio ports when only 2 of 3 pins are used per channel
	IP managed for remote control
	Control via any web device (mobile, tablet) with use of model 500811 (Pro Digital Network Controller)
	PoE powered

6G SDI · Fiber Optic · 4K UHD-4K

Dante™ SPOKEN HERE

Control MuxLab AV over IP solutions
via the **500811 (Pro Digital Network Controller) web and mobile interface, through a PC web browser**, smartphone, and tablet.
The web and mobile interface may also be managed via third party software, either under user control or in an automated fashion.

AV over IP Management

The Pro Digital Network Controller web and mobile interface allows Muxlab's AV over IP Transmitters to be routed to Muxlab's AV over IP Receivers thereby enabling a virtual matrix switch to be set up between multiple HDMI & SDI sources and HDMI & SDI displays and SDI equipment (such as mixers) via a Gigabit Ethernet LAN. 100's of Transmitters and Receivers may be supported on a single LAN, depending on network bandwidth. The Pro Digital Network Controller web and mobile interface supports the addition or removal of Transmitters and Receivers as needed. Changing Transmitter to Receiver routing configurations between point-to-point, point-to-multipoint, and multipoint-to-multipoint arrangements is accomplished easily under software control. The resulting system allows for a truly flexible and expandable AV connectivity solution.

Splitters

12G-SDI 1×6 Splitter, 4K60

Part # 500718

The 12G-SDI 1×6 Splitter, 4K/60 allows one (1) 12G/6G/3G/HD/SD-SDI source to be distributed and amplified to up to six (6) 12G/6G/3G/HD/SD-SDI displays. The splitter supports up to 4K (3840 X 2160) video and HD audio, including 480i (SD-SDI), 720p/1080i (HDSDI), 1080p (3G-SDI), 4K/30 (6G-SDI) and 4K/60 (12G-SDI).

The device automatically detects the 12G/6G/3G/HD/SD-SDI signal and re-clocks and regenerates the signal at the output for extending distances between source and displays. Additionally, all connectors are on the rear panel for neater cabling.

Key Features	Distribute one 12G-SDI source to six displays
	Supports up to 4K @ 60Hz, including 12G/6G/3G/HD/SD-SDI
	Automatically detects re-clocks and regenerates the 12G/6G/3G/HD/SD-SDI signal
	LED diagnostics
	Connectors on rear for neater cabling

3G-SDI 1×4 Splitter

Part # 500719

The 3G-SDI 1×4 Splitter allows one (1) 3G/HD/SD-SDI source to be distributed and amplified to up to four (4) 3G/HD/SD-SDI displays. The splitter supports up to 1080p video, including 480i (SD-SDI), 720p/1080i (HD-SDI), and 1080p (3G-SDI). The device automatically detects the 3G/HD/SD-SDI signal and re-clocks and regenerates the signal at the output for extending distances between source and displays.

Key Features	Distribute one 3G-SDI source to four displays
	Supports up to 1080p @ 60Hz, including 3G/HD/SD-SDI
	Automatically detects re-clocks and regenerates the 3G/HD/SD-SDI signal
	LED diagnostics

Test Equipment

HDMI 2.0 3G-SDI Signal Generator

Part # 500830

This Signal Generator is able to generate SD/HD/3G SDI and HDMI 2.0 test patterns in a full range of resolutions up to 4K@ 60Hz (4:4:4). The unit assists users in validating the capabilities and proper operation of their sink devices. The user may select from various test patterns, resolutions, refresh rates, color spaces and other related parameters. When used with the 500831 Signal Analyzer, a useful set of cable connectivity/quality tests, and device compatibility tests can be performed to help identify problems. The device is an exceptional tool at an attractive price for any AV engineer/developer, integrator and installer.

Key Features
Supports HDMI up to 4K/60 & 3D, and 3G-SDI
Supports RGB4:4:4, YUV4:2:2, YUV4:2:0 & Deep Color
Supports 33 preset patterns & 32 preset resolutions
3" LCD panel for pattern preview & menu settings
Supports 7 audio sample rates
Supports an internal rechargeable Lithium-ion battery
Supports HDCP on/off, for testing HDCP 2.2 & 1.4
Supports EDID management

HDMI 2.0/3G-SDI Signal Analyzer

Part # 500831

This Signal Analyzer is able to analyze SD/HD/3G SDI and HDMI 2.0 test patterns in a full range of resolutions up to 4K@ 60Hz (4:4:4). The unit assists users in validating the capabilities and proper operation of their source devices. When used with the 500830 Signal Generator, a useful set of cable connectivity/quality tests, and device compatibility tests can be performed to help identify problems. The device is an exceptional tool at an attractive price for any AV engineer/developer, integrator and installer.

Key Features
Supports HDMI up to 4K/60 & 3D, and 3G-SDI
Supports RGB4:4:4, YUV4:2:2, YUV4:2:0 & Deep Color
Supports an HDMI cable test function
Displays AV signal characteristics
3" LCD panel for pattern preview & menu settings
Supports 7 audio sample rates
Supports an internal rechargeable Lithium-ion battery
VU metter supported on LCD
Supports HDCP 2.2 & 1.4
Supports EDID management

KVM / Extenders

KVM HDMI over IP PoE Extender Kit

Part # 500770

The KVM HDMI over IP PoE Extender Kit allows HDMI & USB equipment to be connected up to 330ft (100m) over an Ethernet LAN, supporting 1920x1200 and 1080p resolution @ 60Hz via Cat5e/6 cable. Each Transmitter terminates to a computer server/workstation via an HDMI & USB port, and each Receiver terminates to an HDMI display and up to 4 USB devices such as a keyboard, mouse, printer, drawing pad, etc. The audio and mic port on the server/workstation are also extended. A single Receiver can be switched via hotkey sequences to any Transmitter on the network, allowing a single operator to manage numerous servers/workstations, in a distributed KVM application.

Key Features	One operator can manage multiple servers/workstations
KVM, HDMI, PoE, USB 1.1, Audio, Mic, USB 2.0	Supports HDMI up to 1920x1200 and 1080p @ 60Hz
	Receiver side includes a 4-port USB hub, for KVM applications
	Up to 330ft (100m) over Cat5e/6
	Supports 100's of Transmitters & Receivers depending on network bandwidth
	Supports audio insert & mic-out (TX), and audio extract & mic-in (RX)

KVM DVI over IP PoE Extender Kit

Part # 500771

The KVM DVI over IP PoE Extender Kit allows DVI & USB equipment to be connected up to 330ft (100m) over an Ethernet LAN, supporting 1920x1200 and 1080p resolution @ 60Hz via Cat5e/6 cable. Each Transmitter terminates to a computer server/workstation via a DVI & USB port, and each Receiver terminates to a DVI display and up to 4 USB devices such as a keyboard, mouse, printer, drawing pad, etc. The audio and mic port on the server/workstation are also extended. A single Receiver can be switched via hotkey sequences to any Transmitter on the network, allowing a single operator to manage numerous servers/workstations, in a distributed KVM application.

Key Features	One operator can manage multiple servers/workstations
KVM, DVI, PoE, USB 1.1, Audio, Mic, USB 2.0	Supports DVI up to 1920x1200 and 1080p @ 60Hz
	Receiver side includes a 4-port USB hub, for KVM applications
	Up to 330ft (100m) over Cat5e/6
	Supports 100's of Transmitters & Receivers depending on network bandwidth
	Supports audio insert & mic-out (TX), and audio extract & mic-in (RX)

DVI / USB2.0 HDBaseT Extender Kit

Part # 500391

The DVI / USB2.0 HDBaseT Extender Kit (500391) allows one DVI channel and one USB2.0 channel to be transmitted up to 330ft (100m) at all resolutions up to 1920x1200 via single Cat5e/6 cable, and up to 230ft (70m) at 4K (3840x2160). The Receiver features a 4-port USB2.0 hub for transferring multiple USB2.0 data transmissions, well suited for KVM applications.

Key Features	Extends DVI and one USB2.0 channel via single Cat5e/6 cable
DVI, USB 2.0, HDBT, 4K60 ULTRA HD	Up to 330 ft (100m) at all resolutions up to 1920x1200 via one Cat5e/6
	Up to 230ft (70m) at 4K @ 30Hz (4:4:4) and 4K @ 60Hz (4:2:0)
	HDBaseT technology

HDMI/USB2.0 Extender Kit

Part # 500457

The HDMI / USB2.0 Extender Kit allows one HDMI and one USB 2.0 channel to be extended up to 330ft (100m) at all resolutions up to 4K @ 60Hz (4:2:0) via Cat5e/6 cable. The Receiver features a 4-port USB2.0 hub for transferring multiple USB2.0 data transmissions, well suited for KVM applications.

Key Features	Extends HDMI and USB 2.0 via single Cat5e/6 cable
HDMI, USB 2.0, 2 Way IR, RS232, Cat5e/6, 4K60 ULTRA HD	Up to 330ft (100m) at all resolutions up to 4K @ 30Hz (4:4:4) & 4K @ 60Hz (4:2:0)
	4-port USB 2.0 hub at Receiver
	Supports RS232 and IR transmission for remote control
	Uncompressed signals
	USB 2.0 (250Mbps max)

USB2.0 4-Port Extender Kit

Part # 500072

The USB 2.0 4-Port Extender Kit enables USB 2.0 connectivity over Cat5e/6 at data rates up to 480Mbps & extends true USB up to 330ft (100m) over single Cat5e/6 cable. This USB 2.0 4-Port Extender Kit is true plug and play, it requires no additional software drivers, and is compatible with all major operating systems. The unit supports a wide variety of USB extension applications including security, industrial control, digital signage, scientific data acquisition and other implementations of USB standards.

Key Features	
USB 2.0 Cat5e/6	True plug and play, no driver installation required
	Extends USB 2.0 devices up to 330ft (100m) over Cat5e/6 cable
	Supports all USB device types: Control, Interrupt, Bulk and Isochronous at up to 480Mbps
	Compatible with major operating systems
	Aluminum enclosure and wall mount

**4K resolution 3840 X 2160 @ 24, 25 & 30 Hz.*

USB 4-Port Extender Kit

Part # 500070

The USB 4-Port Extender Kit allows up to four (4) USB 1.1 full speed) and low speed devices to be connected to a USB host via Cat5E/6 cable. The USB Extender supports up to 150ft (46m) in a point-to-point connection. The kit come with one (1) host side adapter, one (1) device side transceiver and one (1) power supply for devices requiring 500 mA. The USB Extender Receiver may be installed in a MuxLab rack, an in wall and surface mount accessories for neater installation.

Key Features	
USB 1.1 Cat5e/6	Supports USB 1.1 (low and full speed)
	Four (4) port capacity
	Up to 150ft (46m) via Cat5E/6
	Bus powered
	Plug and play
	External PSU for 500mA requirements
	US, UK and Euro blades

DVI/Audio Extender Kit

Part # 500390

The DVI/Audio Extender Kit (500390) allows one DVI channel and one line level 2CH audio signal to be transmitted up to 230ft (70m) at all resolutions up to 1080p via one (1) Cat5e/6 cable in a point-to-point configuration.

Key Features	Extends DVI and 2CH audio via Cat5e/6 cable
DVI · HDBT · Audio · 4K UHD-4K	Up to 230ft (70m) at all resolutions up to 1080p
	Up to 115ft (35m) at 4K @ 30Hz (4:4:4)
	HDBaseT technology
	**4K resolution 3840 X 2160 @ 24, 25 & 30 Hz.*

DVI Fiber Optic Extender Kit

Part # 500463

Extend DVI over one multimode fiber optic cable up to 3,280ft (1km). The MuxLab DVI Fiber Optic Extender Kit lengthens your DVI display from your video source using a single strand of multimode fiber optic cable. Automatic EDID programming enables simple synchronization of the video source to the display.

Key Features	Extends DVI devices up to 3,280ft (1km)
DVI · Fiber Optic	Supports video resolutions up to 1080p and 1920 x 1200
	Uses single-strand multimode fiber optic cable
	Easy EDID programming enables simple synchronization
	Supports DDWG standard for DVI compliant monitors
	Video Amplifier Bandwidth: 165MHz (single link)
	Input DDC Signal: 5 volts p-p (TTL)
	DVI Connector: Type DVI-D male
	Link Connector: SCPower Supply: 5VDC

HDMI 4K Fiber Extender Kit

Part # 500460

The HDMI Fiber Extender Kit (500460) allows HDMI equipment to be connected up to 1,000 ft (305m) @ 4K/30 resolution via one (1) 50/125 µm Multimode fiber cable in a point-to-point configuration. The kit comes with one (1) Transmitter and one (1) Receiver as well as an IR Emitter (500998) and IR Sensor (500999) for remote control applications.

Key Features	
Fiber Optic, 4K UHD-4K, RS232, 1 Way IR	Up to 1,000 ft (300m) via a single multimode fiber
	IR Control (IR Sensor and IR Emitter included)
	SC connector multimode fiber 62.5 um/125 um.
	Supports RS232

**4K resolution 3840 X 2160 @ 24, 25 & 30 Hz.*

Mini HDMI Fiber 4K Extender Kit

Part # 500461

The Mini HDMI Fiber 4K Extender Kit allows an HDMI source, such as BluRay or PC, to be distributed over extended distances of up to 1,000 ft (305m) to a screen or monitor using Duplex Multimode Fiber cables at resolutions of up to 4K30. Powered via mini USB connectors, this space efficient extender kit is ideal for those hard-to-reach installations where space is crucial.

Key Features	
Fiber Optic, 4K UHD-4K	HDMI 1.4a support
	HDCP support
	Compact design
	Distance up to 305m using LC Duplex multimode 50/125 µm OM3 fiber cable
	Power using micro USB connector
	Metallic enclosure for better heat dissipation

**4K resolution 3840 X 2160 @ 24, 25 & 30 Hz.*

HDMI Over Coax Extender Kit

Part # 500465, 500465-RX

The HDMI over Coax Extender Kit (500465) allows an HDMI source to be connected to an HDMI receiver up to 250ft (76m) at 1080p resolution via one (1) coax cable in a point-to- point configuration. Furthermore, the product may be cascaded via the HDMI over Coax Receiver (500465-RX) in order to support multi-display applications.

Key Features	Supports HDMI over one RG59 coax cable
HDMI Coax	Up to 250ft (76m) at 1080p resolution
	Up to 500ft (152m) at 1080i/720p resolution
	Ideal for harsh electrical environments
	Cascadable on the TX and RX side

DisplayPort

DisplayPort to HDMI Active Adapter

Part # 500501

The DisplayPort to HDMI Active Adapter (500501) allows a DisplayPort source such as a PC or Laptop to be connected to an existing HDMI display or projector. The unit does not require external power to operate and comes with a lifetime warranty.

Application	Schools, government, offices, hospitals, financial institutions, hotels and residential complexes.
Key Features	Converts DisplayPort to HDMI
HDMI · Display Port · 4K UHD-4K	HDCP Compliant
	Supports up to 4K (3840 x 2160) @ 24, 25, and 30Hz
	Active device for improved compatibility
	No external power supply required
	Includes a pigtail for convenient connectivity in tight spaces
	Lightweight
	Lifetime warranty

DisplayPort 1.2a Fiber Extender Kit

Part # 500502

The DisplayPort 1.2a Fiber Extender Kit enables the user to transmit WQUXGA (3840x22400) video at 60Hz signal up to 330ft (100m), with any form of scaling or data compression being applied to the signal. This device supports a total data throughput of 21.6Gbps (5.4Gbps per lane).

Application	Schools, government, offices, hospitals, financial institutions, hotels and residential complexes.
Key Features	Extend DisplayPort connectivity via multi-mode fiber
Display Port · 4K60 ULTRA HD · Fiber Optic	Supports the DisplayPort 1.2a standard
	Up to 330ft (100m) over 50/125m multi-mode fiber
	Supports WQUXGA (3840x2400) resolution @ 60Hz
	Bandwidth of 21.6Gbps
	Supports Dual-Mode DP (DP++)
	Supports auxiliary/I2C channel over fiber
	Compact Metal Enclosure for a robust and easy installation

DisplayPort 1.2a 1x2 Splitter, SST

Part # 500505

The DisplayPort 1.2a 1x2 Splitter, SST allows you to duplicate identical DisplayPort 1.2a content from one DisplayPort connector to two monitors. The splitter supports video resolutions up to 4K and PCM Audio up to 7.1-Channel and up to 192 kHz sampling rate, supporting a Single Stream Transport (SST).

Application	Schools, government, offices, hospitals, financial institutions, hotels and residential complexes.
Key Features	Duplicate identical DisplayPort 1.2a content from one DisplayPort connector to two monitors
	Supports data rate of 5.4 Gbps per lane with a total of 21.6 Gbps link rate
	HDMI link rate: 3.2 Gbps/data pair
	Supports dual mode DisplayPort
	4K at 60Hz, 24 bits/pixel in DP 1.2a configuration
	1080p at 240Hz, 24 bits/pixel
	Supports Single Stream Transport (SST)

DisplayPort 1.2a 1x2 Hub, MST

Part # 500506

The DisplayPort 1.2a 1x2 Hub, MST (500506) is a device that allows you to extend different DisplayPort 1.2a content from one DisplayPort connector to two monitors. The hub supports video resolutions up to 4K and PCM Audio up to 7.1-Channel and up to 192 kHz sampling rate, and supports Multi-Stream Transport (MST) of up to eight streams.

Application	Residential, apartment, condominiums, hotels, offices, schools, hospitals, airports, trading floors.
Key Features	Extend different DisplayPort 1.2a content from one DisplayPort connector to two monitors
	Supports data rate of 5.4 Gbps per lane with a total of 21.6 Gbps link rate
	HDMI link rate: 3.2 Gbps/data pair
	Supports dual mode DisplayPort
	4K at 60Hz, 24 bits/pixel in DP 1.2a configuration
	1080p at 240Hz, 24 bits/pixel
	Supports Multi-Stream Transport (MST) of up to eight streams

CATV & RF Distribution Baluns & Hubs

CATV Balun II

Part # 500302, 500302-2PK

The CATV Balun II (500302) allows traditional 75-ohm coaxial cable to be replaced by a single pair of Cat 5e/6 UTP cable in the CATV, VHF and FM environments in certain applications. Used in pairs, the CATV Balun II allows broadband CATV equipment to be integrated into structured cabling systems thereby allowing CATV equipment to be moved or added to any convenient modular wall outlet. The CATV Balun II provides a versatile cabling solution for broadband video systems and works in conjunction with RF splitters, combiners, amplifiers and cable modems for a total cabling solution.

Application	Schools, government, offices, hospitals, financial institutions, hotels and residential complexes.
Key Features	High bandwidth - up to 900Mhz
Cat5e/6 Coax	Compact design
	Eliminate costly coaxial cable
	Neater wiring
	Low insertion loss
	Supports broadband Internet and digital cable
	Quicker moves, adds and changes

Shielded CATV Balun

Part # 500306, 500306-2PK

The Shielded CATV Balun (500306) allows RG6 coaxial cable to be replaced by Cat 5e/6/7 STP or UTP cable in the terrestrial RF environment. Used in pairs, the Shielded CATV Balun allows broadband CATV equipment to be integrated into a structured cabling system thereby allowing CATV equipment to be moved or added to any convenient modular wall outlet. When used with shielded twisted pair cable, the connection supports greater RF ampliflication and therefore greater distance with less EMI/RFI egress versus the CATV Balun II (500302).

Application	Schools, government, offices, hospitals, financial institutions, hotels and residential complexes.
Key Features	Bandwidth up to 900Mhz including Internet, digital cable
Cat5e/6 Coax	Lower EMI /RFI egress when STP is used
	Low insertion loss
	Supports Cat5e/6/7 STP and UTP
	Fits side-by-side on most RF splitters
	Cast aluminum enclosure for maximum EMI/RFI shielding

CATV Hub

Part # 500300, 500301
500303, 500304

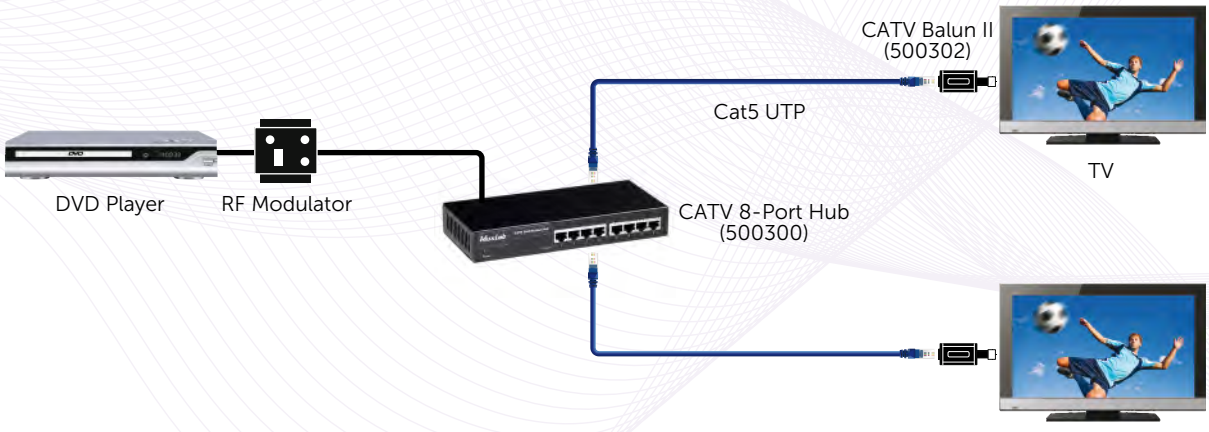
The CATV Hub allows a terrestrial broadband RF video signal to be distributed to multiple RF receivers via Cat5e/6 UTP cable. The CATV Hub is available in two (2) configurations;

Eight (8) ports: 500300/500301
Sixteen (16) ports: 500303/500304

The CATV Hub works in conjunction with MuxLab's passive CATV Balun (500302) and other RF video equipment for a more complete cabling solution. The CATV Hub has a 900MHz bandwidth and supports broadband video, broadband Internet and Digital Cable. The product features built-in gain amplification and port buffering and may be used in conjunction with standard RF distribution equipment for larger installations.

Application	Residential, apartment, condominiums, hotels, offices, schools, hospitals, airports, trading floors.
Key Features	900MHz bandwidth
Cat5e/6 Coax	Bi-directional transmission
	Compact design
	Cost savings - eliminate costly coaxial cable
	Neater wiring
	Built-in RF amplifier
	Works with other standard RF video equipment
	Centralized cabling for greater control
	Quicker moves, adds and changes

Typical Application 500300, 500302



Accessories

Part # 500900

Rackmount Balun Chassis 16

Part # 500902

Rackmount Balun Chassis 6

Part # 500905

3 Port Rackmount Transceiver Chassis

Part # 500910

Surface Mount Balun Plate

Part # 500915

Wall Mount Balun Fixture

Part # 500916

Surface Mount Transceiver Plate

Part # 500917

Wall Mount Transceiver Bracket Kit

Part # 500920

16 Port Rackmount Transceiver Chassis

Part # 500921

Blank Filler Plates (4) for 500920

Part # 500922

Spare Brackets (4) for 500920

Part # 500970-MM

Multimode SFP Module, 850m

Part # 500970-SM10

Singlemode 10Km SFP Module, 1310m

Part # 500970-SM40

Singlemode 40Km SFP Module, 1550m

Part # 500970-SM80

Singlemode 80Km SFP Modile, 1550nm

Part # 500998

IR Emitter

Part # 500999

IR Sensor

BROADCAST PART NUMBER
Reference Guide

Extension, Distribution, Management & Control of Broadcast Signals

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