

NEW VIDEO SCALER

SIGNAL CONVERTERS



IN1404XT

Video / RGB Scaler with Twisted Pair Output and Seamless Switching

New Features for IN1404XT

- **Twisted Pair Output** — Send the scaled video signals up to 500 feet on UTP cables. Use with new VTR001CM twisted pair receiver, a compact, economical unit that installs on a double space A/V connector module.
- **Seamless Switching** — The scaler provides seamless transitions when switching between a passive computer input signal on Input 4 and an active scaled video or computer video signal on Inputs 1, 2, or 3.
- **Audio Breakaway** — Video and audio input signal selection can now be controlled independently through RS-232 serial commands.
- **Quad Standard Decoder with Adaptive Comb Filter**
- **Computer Video Upscaling** — Accepts RGBHV / RGBS / RGB signals at scan rates from 15 – 60 KHz. Provides very high quality upscaling and refresh rate conversion
- **Superb Video Scaling Quality**
- **Comprehensive Video Adjustments:** Brightness, contrast, gamma, hue, saturation, sharpness, noise filter, image size, image shift
- **128 Input Memories** — Store unique input settings for up to 128 different sources
- **Sophisticated Motion Compensation Circuitry** — The scaler automatically switches to adaptive frame mode (*inverse 3:2 pulldown*) with film-originated video sources.
- **Digital Freeze Frame for Video and Computer Video Sources**
- **Aspect Ratio Controls** Provide proper image geometry with various input source aspect ratios and display device aspect ratios.
- **Volume Control and Mute**
- **Selectable Refresh Rate:** 60 Hz to 120 Hz
- **Selectable Output Resolutions** from 640 x 480 up to 1365 x 1024 — Match the optimal or native resolution of virtually any display
- **4 Input Switcher:** Inputs 1 & 2 Accept: Composite video or S-video + stereo audio
Inputs 3 & 4 Accept: Composite video, S-video, component video, progressive component video, RGB, RGBS, RGBHV + stereo audio
Input 4 Also Accepts: Computer pass-through
- **Dual Outputs (15-Pin HD and 5-BNC)** Drive Two Displays Simultaneously
- **All Adjustments Controllable Using On-Screen Menus or RS-232 Serial Control**

NEW TWISTED PAIR PRODUCTS

VTT001CM / VTR001CM

Twisted Pair Transmitter and Receiver Modules for RGBHV



- VTT001CM Transmitter and VTR001CM Receiver work together to create an economical, high performance system for sending high-resolution VGA / RGBHV signals up to 500 feet / 152 meters on a CAT 5/5e/6 UTP cable.
- **Compatible with High-Resolution Computer Video Signals at Resolutions up to 1600 x 1200**
 - **Compatible Computer Video Formats:** RGBHV / RGBS / RGB
 - **Compact Transmitter / Receiver Units on Double Space A/V Connector Modules** — Install in Inline CPM series modular connector plates and Inline CIA series interfaces that accept A/V connector modules
 - **Removable Faceplate** — Module faceplate is removable for applications where transmitter or receiver will be installed on a table top or attached to an equipment rack or data display.
 - **Remote Power Capability** — VTT001 / VTR001 system operates with an external DC power supply connected to the just the transmitter (receiver remote power) or just the receiver module (transmitter remote power). For longer cable lengths, power is applied to both the receiver and transmitter.
 - **INLINE's Most Economical high-resolution video twisted pair Transmitter / Receiver Products**
 - **VTT001CM Twisted Pair Transmitter for RGBHV**
 - **Input Connector:** 15-Pin HD female
 - **Output Connector:** RJ-45 female on 3" pigtail
 - **Available in black finish (VTT001CM-1) or white finish (VTT001CM-2)**
 - **Available in compact tabletop version (VTT001CM-3)**
 - **VTR001CM Twisted Pair Receiver for RGBHV on A/V Connector Module**
 - **VTR001 Receiver Works with VTT001CM Transmitter and Also Acts as the Receiver for IN1404XT Video Scaler UTP Output**
 - **Video Peaking Control** — Provides adjustable cable compensation to optimize video image for different cable lengths
 - **Output Connector:** 15-Pin HD female
 - **Input Connector:** RJ-45 female on 3" pigtail
 - **Available in black finish (VTR001CM-1) or white finish (VTR001CM-2)**
 - **Available in compact tabletop version (VTR001CM-3)**



VTT001CM-3 AND VTR001CM-3



MTP SERIES

Mini Twisted Pair Transmitter and Receivers

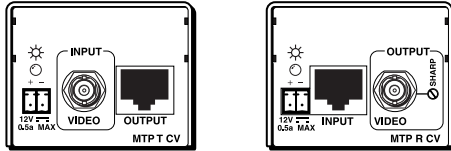
The MTP Series of ultra-compact transmitters and receivers work together to provide an economical solution for transmitting composite video, S-video and stereo audio signals up to 1000 feet / 304 meters over CAT 5/5e/6 UTP cable.

- **Compatible Signal formats:** Composite video, S-video, stereo audio (balanced/unbalanced)
- **Sharpness Control** — provides adjustable cable compensation to optimize video image for different cable lengths

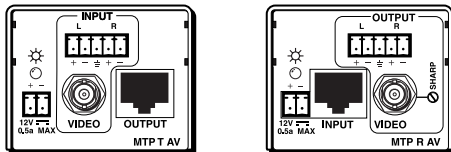
- **Remote Power Capability** — MTP system operates with a power supply connected to transmitter only or receiver only
- **Flexible Installation Options:** 1U high, one-eighth rack width size allows for installation in a rack, under-desk, or next to a projector.



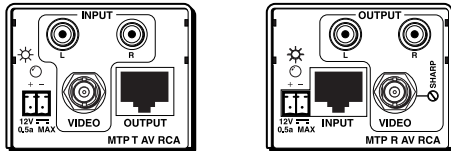
Composite Video Transmitters and Receivers



MTP T CV and MTP R CV for composite video only

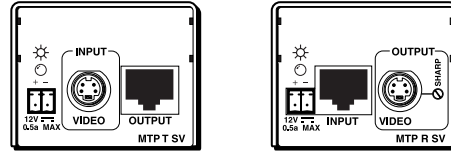


MTP T AV and MTP R AV for composite video/balanced audio

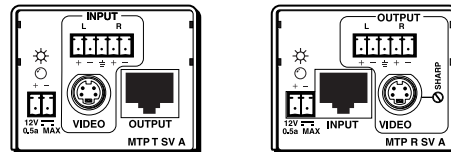


MTP T AV RCA and MTP R AV RCA for composite video/unbalanced audio

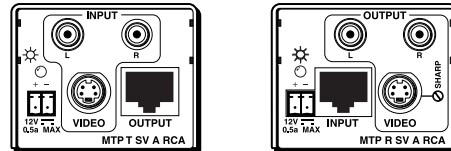
S-Video Transmitters and Receivers



MTP T SV and MTP R SV for S-video only



MTP T SV A and MTP R SV A for S-video/balanced audio



MTP T SV A RCA and MTP R SV A RCA for S-video/unbalanced audio

TPX88

8x8 Twisted Pair Matrix Switcher for RGBHV



Extron TPX 88 and TPX 88 A matrix switchers work in conjunction with Extron and Inline twisted pair transmitters and receivers to create a high performance A/V signal routing system. Capable of connecting to as many as eight twisted pair transmitters and eight twisted pair receivers, the TPX 88 / TPX 88 A provide simplified signal routing and control while letting system designers and installers take advantage of the many benefits of A/V signal distribution over UTP cables.

- Compatible with RGBHV/RGBS/RGSB/component/S-video/composite video
- I/O Grouping for division into smaller sub-switchers for easy installation and control
- 16 global presets allow for quick recall of system configurations

- Audio breakaway offers the capability to break away an audio signal from its corresponding video signal (except S-video with stereo audio).
- Separate local audio outputs convert digital audio signals to analog audio (TPX 88 A only)
- RS-232/422 remote control via a third party control system
- Front panel security lockout for unsecured environments
- Installs in 1U rack space

TPX 88 Compatibility

Extron TPX 88 Matrix Switchers are compatible with Extron and Inline twisted pair products as indicated in the chart below. RGBHV transmitters are compatible with any RGBHV receiver. MTP Series transmitters are compatible only with MTP Series receivers.

RGBHV Transmitters	RGBHV Receivers
Extron TPT Series	Extron TPR Series
Inline VTT001CM	Inline VTR001CM
Inline IN1404XT	Inline VTR001CM
Composite/S-Video Transmitters	Composite/S-Video Receivers
Extron MTP T Series	Extron MTP R Series



TPS150

Twisted Pair A/V Switching and Transmission System

The TPS150 is a complete switching and transmission solution for sending video, high-resolution computer video and RS-232 control signals to a projector, plasma display, presentation monitor, or other data display over a single CAT5 UTP cable. Featuring advanced cable compensation and skew control technology (patent pending), the TPS150 system provides superb image quality with cable runs up to 500 feet / 152 meters using standard CAT5 cables (*specialized media grade cables are not required*).

TPS150 System Includes:

- TPT150 AV Switcher / Twisted Pair Transmitter
- TPR150 Twisted Pair Video Receiver
- Video Cables for Connection to Remote Data Display:
 - ✓ 6' composite video cable
 - ✓ 6' S-video cable
 - ✓ 6' component video cable
 - ✓ 6' VGA male to male cable

TPT150 AV Switcher / Twisted Pair Transmitter

- Four A/V Inputs
 - ✓ Input 1: VGA input with buffered local monitor output
 - ✓ Input 2: VGA input
 - ✓ Inputs 3 & 4: Video inputs – Accept composite or Y/C or component video signals
- Audio-Follow Video Switching — Each input accepts unbalanced line level stereo audio signals. Output signal can be set for balanced or unbalanced audio
- Volume Control and Mute – Individual volume levels can be stored for each input
- RS-232 Serial Port – Control TPS150 functions remotely using RS-232 serial commands.



- TPT150 Can Store and Transmit Commands to Control Display Device Input Selection and Power On / Off (all serial commands are provided by installing technician). Commands are automatically sent when TPT150 input selection or display power buttons are pressed.
- Contact Closure Remote Port – Select inputs, adjust volume and turn projector power on / off remotely using the optional CTP150 control panel
- Flexible Installation Options: Rack mount in 1U space, or place on table top, mount under podium shelf

TPR150 Twisted Pair Video Receiver

- Individual Red / Green / Blue Skew Controls (Patent Pending) – Available only on Extron and Inline products, the RGB skew controls adjust for the inter-pair timing delays found in long CAT5 cable runs. These controls ensure excellent performance with virtually any CAT5 cable (*specialized media-grade CAT5 cables not required*)
- Sophisticated Cable EQ Circuitry (Patent Pending) with Separate High Frequency and Low Frequency Controls.
- Compact Receiver Unit – Installs inside ceiling, on top of projector or data display, mounted to projector mounting pole

IN1128

Twisted Pair Transmitter for RGBHV & Mono Audio with 8 Outputs

The IN1128 transmitter works with IN1130 twisted pair receiver to create a complete twisted pair transmission and distribution system for RGBHV and mono audio signals.

- Send High-Resolution Computer Video Signals Up to 500 Feet Over CAT5 UTP Cable
- Send Audio Signals over CAT5 UTP Cable

- Split and Amplify One VGA Signal to a Local Monitor Plus 16 Displays using (1) IN1128 CAT5 transmitter / DA & (8) IN1130 CAT5 receiver / DAs
- Compatible with High Resolution Computer Video Signals at Resolutions up to 1600 x 1200



- Compatible Computer Video Formats: RGBHV / RGbS / RGsB
- Compatible Video Formats: Composite / S-video / component / progressive component

- Compatible HDTV Formats: RGBHV / component video with bi-level sync (480p / 720p / 1080i)
- Video Peaking Control Provides Adjustable Cable Compensation to Optimize Video Image for Different Cable Lengths

NEW PRESENTATION SWITCHER

SWITCHERS

SWP123

Presentation Switcher

Elegant Design Combines Three A/V Switchers and a Master Audio Switcher with Microphone Pre-Amplifier in One Space-Efficient, Economical Product:

- ✓ 4x1 composite video + stereo audio switcher
- ✓ 4x1 Y/C video + stereo audio switcher
- ✓ 4x1 VGA + stereo audio switcher
- ✓ Master audio switcher – selects video, Y/C, VGA or microphone audio signal
- Superb Video Performance — Video bandwidth of 450 MHz
- Ergonomic Front Panel with Large Soft-Touch Rubber Buttons and Ample Room to Accommodate Input Labels
- Local Audio Outputs and Master Audio Output Can be Wired for Unbalanced or Balanced Operation

- Stereo Audio Switchers Accept Line Level Unbalanced Stereo Audio Signal.
- A/V Volume Control and Mute for Master Audio Output
- Individual Audio Input Trim Levels — Units can store a unique input level for each input
- Microphone Input with Adjustable Level and XLR Input Connector
- +24V Phantom Power for Condenser Microphones
- Microphone Talk Over — Automatically reduces A/V audio level whenever a signal is present at the microphone input.
- Talk Over Threshold Adjustment — Determines the input signal level



- required to engage the talk over function. This control can be adjusted to optimize the talk over operation to accommodate the microphone output level, voice volume, or ambient background noise level.
- Transcoder Loop — Converts all composite video signals to S-video using an external composite video to S-video transcoder
- Robust RS-232 / RS-422 / RS-485 Serial Control Capability — All switching and volume functions can be remotely controlled using serial commands.

- INLINE ICS100 Control Software Included — Offers an intuitive graphical interface for effortless control of all switcher functions using a PC.
- Downloadable Software Updates — SWP123 operating firmware can be upgraded through the serial port, providing an easy way to add new features and capabilities in the future.
- IR Controllable — Switching and volume functions can be controlled remotely using the optional CTL120-3 infrared remote control.



CM SERIES

CM Series Active Connector Modules



We have enhanced our modular connectivity line with the introduction of the CM Series active connector modules. What sets the CM Series modules apart from the rest of the A/V connector modules is the fact that they are not just passive

A/V connector plates, but actually provide an active signal or control function. CM Series active modules give you the flexibility to install a variety of active signal and control products in the best location to meet installation requirements.

- Available in Black or White
 - Single Space, Double Space, or Quad Space Module
 - Wall Mount / Table Mount / Floor Mount
- CM Series modules install in Inline CPM

series modular connector plates and Inline CIA Series interfaces that accept connector modules.

- Compact, Economical, Modular Alternative for Signal Buffering and Control Applications

CM Series Models
VGA Line Driver / Audio Buffer



DAV101CM
VGA Line driver module (double space) — Available with 15-Pin HD or 5-BNC output connector



DAS101CM
Audio buffer module (single space) — Available with dual RCA or 3.5mm input connector

Twisted Pair Video
Transmitter / Receiver

VTT001CM
Twisted pair transmitter module for RGBHV (double space)



VTR001CM
Twisted pair receiver module for RGBHV (double space)

Control

CTL208CM
8 button control panel module (quad space) — unit stores command strings and transmits RS-232 / RS-422 / RS-485 commands when buttons are pressed



Power



ACM101
Double space AV connector module with (1) Edison female outlet on front, (1) IEC female on back



ACM102
Double space AV connector module with (1) IEC female outlet on front, (1) IEC female on back



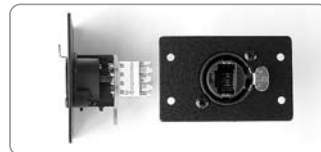
ACM103
Double space AV connector module with (1) Europlug female outlet on front, (1) IEC female on back

NEW A/V CONNECTOR MODULES

IN9485B / IN9485W
Single space AV connector module (black / white): 4-pin mini DIN female on front and (2) female BNC with 6" pigtails on back



IN9486DB / IN9486DW
Double space AV connector module (black / white): Neutrik EtherCon ruggedized RJ45 female connector



IN9402
Neutrik NE8MC-B cable connector carrier for EtherCon compatibility. Ruggedized connector assembly installs on pre-terminated RJ-45 cable to allow positive interlock with Neutrik EtherCon female connectors



IN9487B / IN9487W
Single space A/V connector module (black / White) Crestron TPSBLOCK-10 panel mount interface for Cresnet touch panel



SE SERIES CONNECTOR MODULES

A/V Connector Modules with Standard Engraving

The SE Series (standard engraving) includes some of our most popular A/V connector modules already engraved with the most frequently requested labeling. SE Series modules are available for immediate shipment and offer an economical alternative to custom engraved A/V modules. Modules are available in black or white finish.



IN9454B-SE1



IN9376DB-SE1



IN9365DB-SE1

Model	Connectors
IN9353-SE1	(2) RCA female
IN9359-SE1	(1) RJ-45 female (Leviton)
IN9361-SE1	(1) 15-Pin HD female
IN9365-SE1	(1) XLR 3-Pin female (Neutrik)
IN9376-SE1	(2) RCA female-female barrel (white/red), (1) RCA female-female barrel (yellow), (1) 4-pin mini DIN female-female barrel

Engraving Text
LEFT RIGHT
NETWORK
COMPUTER VIDEO
MICROPHONE
LEFT RIGHT
VIDEO
S-VIDEO

Model	Connectors	Engraving Text
IN9381-SE1	(1) BNC female to female barrel	VIDEO
IN9385-SE1	(1) 3.5mm mini stereo female	AUDIO
IN9454-SE1	(1) RJ-45 female – female barrel	NETWORK
IN9462-SE1	(2) RCA female (white/red) – quick connect	LEFT RIGHT
	(1) RCA female – female barrel (yellow)	VIDEO
IN9481-SE1	(3) RCA female to female barrels (white/red/yellow)	VIDEO LEFT RIGHT



FLOOR MOUNT MODULAR CONNECTOR PLATES

CPM121-1

Modular A/V connector plate for Walker RFB4-SS floor box. Holds up to four A/V connector modules — black finish



CPM122-1

Modular A/V connector plate for Walker AC8105 floor box. Holds up to 12 A/V connector modules — black finish



CPM123-1

Modular A/V connector plate with protective lid for Walker RC3 poke-through. Holds up to 5 A/V connector modules — black finish



RACK MOUNT MODULAR CONNECTOR PANELS

CPM112R-1

Modular A/V connector panel for 1U rack space. Holds up to 12 A/V connector modules. Includes integral cable management rail



CPM130-1

Rack mount connector panel — 1U x 1/2 rack wide. Holds six A/V connector modules. Fills space on rack shelf next to 1U x 1/2 rack size product, includes integral cable management rail



CPM133-1

Rack mount connector panel — 1U x 1/3 rack wide. Holds four A/V connector modules. Includes integral cable management rail

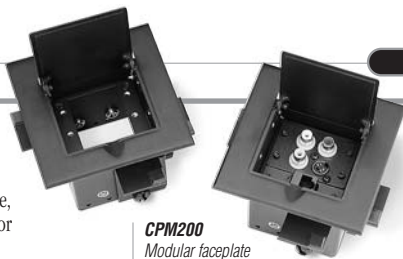


TABLE MOUNTABLE MODULAR A/V CONNECTOR BAYS

Table Mount

CPM200 / CPM208

Connector bays install in a conference / boardroom table, podium, instructor's station or other custom furniture



CPM200

Modular faceplate accepts up to three A/V connector modules

CPM208 Modular faceplate accepts up to eight A/V connector modules

- **Over 75 Connector Modules Available** Featuring popular video, audio, phone, data, and control connectors. Extron can provide custom engraving (extra charge) to label connectors.

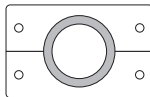
- **CM Series Active A/V Connector Modules** Active modules are available for VGA line driving, audio buffering, twisted pair transmission, control, and A/C power
- **Captive Cable Kits** — A/V module kits with 1–3 holes in the surface allow cables to be permanently installed in the connector bay and pulled out as needed. Captive cable installations provide great ease of use and low maintenance since the A/V cables are always there and can't be lost or borrowed.
- **Modular Design Prevents Obsolescence** Install new modules to accommodate system changes
- **Modular Faceplate Carriage(s)** Can be installed in upper position or lower position depending on application.
- **Adjustable Brackets** accommodate table top thickness from 0.5" to 2.5"
- **Cable Management** — Tie points are included on the bottom edge of the CPM200 / CPM208 to facilitate cable strain relief. The tie points also make it easy to create cable loops for captive cable installations.

CAPTIVE CABLE KITS FOR CPM200 AND CPM208



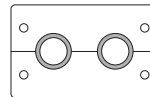
IN9482B

(1) Large cable hole — Kit includes: (2) Single space plates and (1) grommet (13/16" ID)



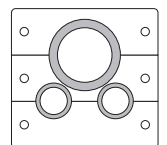
IN9483B

(2) Small cable holes — Kit includes: (2) Single space plates and 2 grommets (5/16" ID)



IN9484B

(1) Large cable hole and (2) Small cable holes — Kit includes: (3) Single space plates and 3 grommets (One 13/16" ID and two 5/16" ID)



IN9484B INSTALLED IN CPM200

CPM212

Table Top / Wall Mount Modular Connector Bay



- Unique dual purpose connector bay functions as a table top connector bay or flips over to function as a wall mount connector bay
- Accepts up to 12 A/V connector modules
- Available in black finish (CPM212-1) or white finish (CPM212-2)
- Bay holds two double space A/V connector modules on back and two double space A/V connector modules on bottom — can be used to pass through cables or as a place to attach A/V modules
- (6) Holes on back for BNC barrels (BNC barrels sold separately)
- Mounting holes on bottom secure CPM212 to wall for wall-mounted installations



CC200

Control and Audio Link Cable

The CC200 control and audio link cable was designed specifically for use with Pioneer and Sharp LCD and plasma displays with external switcher/scaler boxes. This proprietary cable allows the switcher/scaler box to be installed up to 75 feet away from the display device.

- Routes serial and audio signals from display to manufacturer's external switcher/scaler
- Utilizes proprietary DFP male to DFP male connectors
- Available in lengths from 25 to 75 feet

- Use in conjunction with the INLINE IN9700 Series high performance DVI extension cables



NEW BNC CONNECTORS AND TOOLS

Universal Compression Tool, Compression Coax Prep Tool and Compression BNC Connectors

Compression BNC connectors are now offered in nickel and gold plated versions for Inline IN7000 / IN7200 cables and Extron mini HR, HR, SHR, and RC series cables. The new compression BNC connectors and tools provide easier termination of coaxial cable.

- Compression connectors withstand 40 pound pull tests

- Connectors provide 75 ohm impedance
- Reliable and proven compression termination
- One compression tool works with BNC compression connectors for cables from 26AWG (MHR) up to RG6 (SHR). Also works with RCA and F compression connectors.

- Coax stripper tool allows quick cable preparation
- Quick and reliable connectivity without soldering or crimping
- Easy termination in a simple three step process



COMPRESSION TYPE BNC CONNECTOR



UNIVERSAL COMPRESSION TOOL

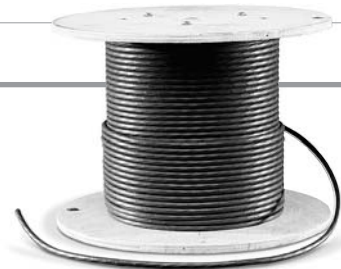
IN7000ZH-5

Low Smoke & Fumes / Zero Halogen High Resolution 5-Conductor Cable

- LSFOH Rated — Cable is specially formulated for low smoke and fumes zero halogen requirements in UK, Europe and other countries that require LSFOH type cables
- (5) 26 AWG Coax Cables Bundled into One Jacket

- Cables are Color Coded: red / green / blue / black / yellow
- Bandwidth of 50' Cable: 135 MHz @ -3dB
- Bandwidth of 100' Cable: 40 MHz @ -3dB

- Cable is available as 150 meter bulk roll (IN7000ZH-5R) and 300 meter bulk roll (IN7000ZH-5K)



IN7300ZH-5

Low Smoke & Fumes / Zero Halogen Super High Resolution 5-Conductor Cable

- LSFOH Rated — Cable is specially formulated for low smoke and fumes zero halogen requirements in UK, Europe and other countries that require LSFOH type cables
- (5) 22 AWG Coax Cables Bundled into One Jacket

- Cables are Color Coded: red / green / blue / black / yellow
- Bandwidth of 50' Cable: 430 MHz @ -3dB
- Bandwidth of 100' Cable: 120 MHz @ -3dB

- Cable is Available as 150 Meter Bulk Roll (IN7300ZH-5R)



CTL208CM

8-Button Control Panel with Serial Output

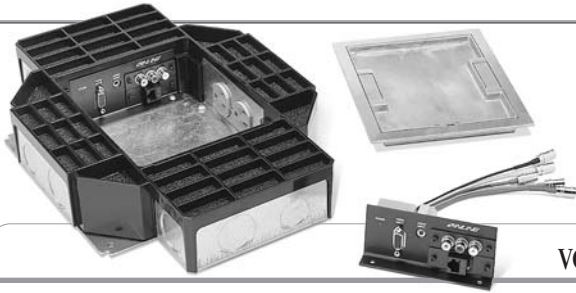
- Unit sends out serial commands when buttons are pressed – each button can store one or two commands
- Supports RS-232 / RS-422 / RS-485 protocols

- Buttons can be assigned to two groups with mutually exclusive operation (When one button is selected others are deselected)
- Eight soft touch buttons with indicator LEDs

- Program unit functions using INLINE ICS100 control software (included)
- Available in black or white finish



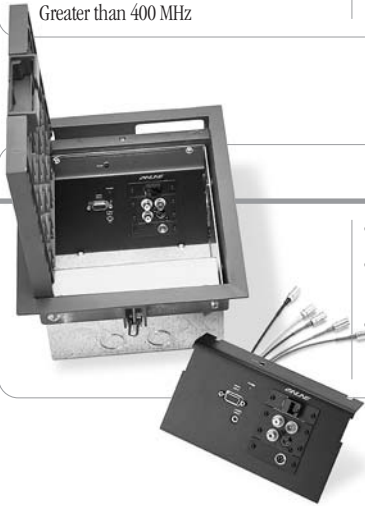
- Quad size A/V connector module installs in CPM Series modular A/V connector plates or CIA Series installation interfaces that accept a quad size module



DAV111W4-1

VGA Line Driver with Modular A/V Faceplate for Walker RFB4-SS Floor Box

- Installs in Walker RFB4-SS Floor Box
Up to four units can install in a single floor box
- Excellent Video Bandwidth Performance
Greater than 400 MHz
- Continuously Variable Peaking Control
High frequency equalization compensates for up to 250 feet of IN7200 Series cable
- Sync Signal Buffering with AGC
Restores sync signals to proper TTL levels
- Audio Buffering —
Converts unbalanced audio signals to balanced audio
- for enhanced reliability and stability with long cable runs
- Modular A/V Faceplate Accepts Up to two Single Space AV Modules
- Black Finish
Walker floor box is not included and must be ordered separately



DAV111W8-1

VGA Line Driver with Modular A/V Faceplate for Walker AC8105 Floor Box

- Installs in Walker AC8105 Floor Box
- Excellent Video Bandwidth Performance
Greater than 400 MHz
- Continuously Variable Peaking Control
High frequency equalization compensates for up to 250 feet of IN7200 Series cable
- Sync Signal Buffering with AGC
Restores sync signals to proper TTL levels for enhanced reliability and stability with long cable runs
- Audio Buffering — Converts unbalanced audio signals to balanced audio
- Modular A/V Faceplate Accepts Up to four Single Space AV Modules
- Black Finish
Walker floor box is not included and must be ordered separately



DAV101CM

VGA Line Driver Module

- VGA Line Driver on Double Size A/V Connector Module —
Installs in Inline CPM Series modular connector plates and Inline CIA Series interfaces that accept A/V connector modules
- Excellent Video Bandwidth Performance
Greater than 400 MHz
- Continuously Variable Peaking Control
High frequency equalization compensates for up to 150 feet of IN8000 Series VGA cable
- Sync Signal Buffering with AGC
Restores sync signals to proper TTL levels for enhanced reliability and stability with long cable runs
- or 250 feet of IN7200 Series cable
- Compatible with VGA Signals at Virtually any Resolution / Refresh Rate
- Available with 15-Pin HD Female Output or 5-BNC Female Output
- Available in Black or White Finish



DAV002

1x2 VGA Distribution Amplifier

- 270 MHz Bandwidth
- Compatible with VGA Signals at Resolutions up to UXGA
- 4' Attached Input Cable with 15-Pin HD Male Connector
- Two Buffered Outputs (15-Pin HD Female)
- All Monitor Sense Pins Passed to Display Connected to Local Monitor Output
- Universal Power Supply —
Operates with AC line voltages worldwide
- Durable Plastic Enclosure
- Very Economical



DAS101CM

Audio Buffer Module

- Audio Buffer on Single Size A/V Connector Module
Installs in CPM Series modular connector plates and CIA Series interfaces that accept A/V connector modules.
- Buffers and Balances Audio Signals or Long Cable Runs
- Accepts Unbalanced Line Level Stereo Audio Input Signals and Outputs Them as Balanced Audio or Unbalanced Audio on a 5-Pin Captive Screw Terminal
- Available with (2) RCA Input or (1) 3.5mm Input
- Power Loop-Through Connector
Provides power to DAV101CM or CIA Series interface (9VDC power supply not included)
- Available in Black or White Finish



MATRICES

NEW MATRIX SWITCHERS

MSX SERIES

New Features for MSX3216 Series Matrices

The following features are now standard on MSX3216 / MSX3216HR matrices:

- **IP Control Port** — Control all configuration / switching functions, check matrix status, and download new firmware remotely through IP control over a LAN / WAN / internet
- **Redundant Power Supply** with supply status notification via serial port / IP port. Unit can automatically send an email message to one or more recipients to announce power supply failure
- **Temperature Sensor** with temp status notification via serial port / IP port. Unit can automatically send an email message to one or more recipients to announce that matrix unit has reached specified temperature thresholds.
- **Superb Video Performance** — MSX HR models offer video bandwidth up to 475 MHz.
- **Large 4-Line LCD Display with four Soft Keys** — Shows a detailed description for each input source, output device and preset.
- **Powerful INLINE Control Software Included** — Offers an intuitive graphical interface for effortless control of all switcher functions using a PC. Software can communicate with the MSX matrix via serial or IP control.
- **Ergonomic Front Panel Designs** Feature large soft-touch rubber buttons, color coded function keys and ample room to accommodate input / output labels for easy input / output selection.
- **Robust RS-232 / RS-422 / RS-485 Serial Control Capability** — Matrices offer fast communication speeds with advanced control signal buffering for enhanced reliability.
- **New Serial Control Protocol** — Offers fast, easy programming and powerful control options like individual unit addresses.
- **Master Volume Control and Mute for Each Output.**
- **Individual Audio Input Trim Levels** — Units can store a unique input level for each input.
- **Two Auxiliary Serial Control Ports** — MSX Series matrices can store and transmit serial commands to control projectors or other serially controlled equipment.



MSX3216 WITH IP CONTROL

- **128 Configuration Memories** — Store and recall input / output configurations, audio levels and auxiliary serial commands.
- **RGB Delay Mode for Enhanced Switching Transitions.**
- **Dual Switching Modes:**
Matrix Mode — Offers the ultimate switching flexibility required by sophisticated operators. Users first select an input, followed by output(s) and then press take to execute the new patch.
Express Mode — A very simple operation mode that lets users recall previously stored input / output configurations at the touch of a single button. In Express Mode all advanced settings and menus are locked to prevent unauthorized changes.
- **Downloadable Software Updates** — MSX Series operating firmware can be upgraded through the serial port or IP port, providing an easy way to add new features and capabilities in the future
- **Blank Front Panel Models** — MSX Series models are available without front panel controls, a lower cost solution that is ideal for applications where all functions will be performed by an external control system.

MSX Series Models

- **MSX1616** — 16x16 matrix for RGBHV & stereo audio — 160 MHz
- **MSX1616HR** — 16x16 matrix for RGBHV & stereo audio — 475 MHz
- **MSX3216** — 32x16 matrix for RGBHV & stereo audio — 150 MHz
- **MSX3216HR** — 32x16 matrix for RGBHV & stereo audio — 450 MHz

MSG SERIES

8x4 and 8x8 Matrices for RGBHV & Stereo Audio

- **Economical Matrix Switchers** offer High Performance Signal Routing Solutions for a Variety of Applications
- Available with 8-Inputs / 4-Outputs (MSG0804) or 8-Inputs / 8-Outputs (MSG0808)
- Available in Standard and HR Bandwidth Models:
 - ✓ Standard models: 225 MHz video bandwidth
 - ✓ HR models: 475 MHz video bandwidth
- BNC Connectors for Video Inputs and Outputs
- Compatible with RGBHV / RGBS / RGB / Component Video Signals
- **Ergonomic Front Panel Design** Featuring Soft-Touch Buttons and Integrated Labeling System
- **Robust Serial Control Capability** — Matrices can be controlled by RS-232, RS-422 or RS-485 serial commands and offer fast communication speeds, individual unit addresses and advanced control signal buffering for enhanced reliability
- **Downloadable Software Updates** — MSG Series matrices operating firmware can be upgraded through the serial port, providing an easy way to add new features and capabilities in the future
- **INLINE ICS100 Control Software** with IP Server Software Included



- **New INLINE Serial Control Protocol** — Offers powerful control options and fast, easy programming
- **IR Remote Control Capability**
- **Audio Inputs and Outputs Compatible** with Balanced or Unbalanced Stereo Audio Signals
- **Master Volume Control and Mute for Each Output**
- **Individual Audio Input Trim Levels**
- **Dual-function Serial Port** — MSG Series matrices can store and transmit serial commands to control projectors or other serially controlled equipment. Codes can be triggered by input selection, output selection or preset selection.
- **32 Configuration Memories**
- **Installs in 3U Rack Space** Using Included Rack-Ears



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