MPS 601

MEDIA PRESENTATION SWITCHER



The Extron MPS 601 is a compact six input, one output media presentation switcher for HDMI, RGB, and audio sources. Analog signals are digitized and switched through the HDMI output along with native HDMI signals, providing a single video format and cable connection to the display. The MPS 601 is ideal for applications that require the routing of digital and analog sources to a single display.

- ► Integrates HDMI, RGB, and audio sources into presentation systems
- Digitizes RGB and analog audio signals, and switches them through the HDMI output
- EDID Minder® automatically manages
 EDID communication between
 connected devices
- Key Minder[®] continuously verifies HDCP compliance for quick, reliable switching
- **▶** HDCP compliant
- Supports PC-video to 1920x1200, including HDTV 1080p/60 and 2K
- Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, and HD lossless audio formats
- Multiple control options including front panel, RS-232, contact closure, and auto-input switching
- Rack-mountable, 1U, half-rack width metal enclosure



DESCRIPTION

The Extron MPS 601 is a compact six input, one output media presentation switcher for digital and analog sources. It offers four, HDCP-compliant HDMI inputs and two RGB video inputs with analog stereo audio. RGB video and analog audio are digitized and switched through the HDMI output. The MPS 601 features two Extron-exclusive technologies: EDID Minder®, which maintains continuous EDID communication between connected devices, and Key Minder®, which continuously authenticates and maintains HDCP encryption between input and output devices to ensure quick and reliable switching. The MPS 601 is ideal for applications that require the routing of digital and analog sources to a single display.

For ease of integration, analog audio inputs can be assigned. In normal operation, the analog audio inputs follow the corresponding RGB input. Alternately, they can be assigned to follow preset groups of digital and RGB inputs. This enables the grouped inputs to share a common analog audio input.

The MPS 601 offers integrator-friendly features, including cable equalization on each HDMI input, automatic color bit depth management, indicators for monitoring and troubleshooting, as well as peripheral device powering. Automatic input cable equalization corrects for signal loss due to lengthy input cables, ensuring signal integrity for up to 50 feet (15 meters) of Extron HDMI Pro Series cable at 1080p/60 with 8-bit color. To prevent color compatibility conflicts between the source and display, the switcher automatically adjusts color bit depth based on the display EDID. Front panel LED indicators provide immediate visual confirmation of HDCP authentication and signal presence for each input and the output. The MPS 601 also provides +5 VDC, 250 mA on the HDMI output for powering peripheral devices such as the HDMI 101 Plus cable equalizer.

The MPS 601 provides multiple control points, allowing for streamlined integration into various environments. Convenient control options include front panel, RS-232, contact closure with tally, and auto-input switching. The six contact closure ports with tally allow for remote selection and output muting of an input via a simple push-button control. Housed in a 1U half-rack width metal enclosure, the compact MPS 601 can be rack-mounted, installed in a lectern with the Extron Half Rack Shelf System, or mounted under a table with the Extron UTS Series Under Table Shelf System.

FEATURES

- Integrates HDMI, RGB, and audio sources into presentation systems
- ► Four HDMI inputs and two RGB inputs The MPS 601 allows for switching between HDMI and analog video sources.
- ▶ Digitizes RGB and analog audio signals, and switches them through the HDMI output Analog signals are digitized, and switched through the HDMI output along with native HDMI signals, providing a single video format and cable connection to the display.
- ▶ HDMI audio embedding Analog input audio signals can be embedded onto the HDMI output signal.

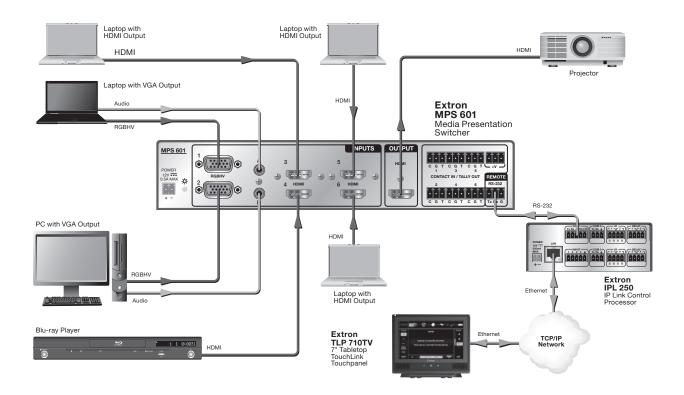
FEATURES (Cont.)

- ▶ EDID Minder® automatically manages EDID communication between connected devices – EDID Minder ensures that all sources power up properly and reliably output content for display.
- ▶ Key Minder® continuously verifies HDCP compliance for quick, reliable switching Key Minder authenticates and maintains continuous HDCP encryption between input and output devices to ensure quick and reliable switching in professional AV environments.
- Supports computer-video to 1920x1200, including HDTV 1080p/60 and 2K
- ▶ Supported HDMI specification features include data rates up to 6.75 Gbps, Deep Color up to 12-bit, 3D, Lip Sync, and HD lossless audio formats
- ▶ HDCP compliant
- ▶ HDCP authentication and signal presence LED indicators
- Automatic color bit depth management The switcher automatically adjusts color bit depth of the currently selected HDMI input signal based on the display EDID, preventing color compatibility conflicts between HDMI source and display.
- ▶ HDMI to DVI Interface Format Correction Automatically reformats HDMI source signals for output to a DVI display.
- Automatic input cable equalization to 50 feet (15 meters) at 1080p/60 with 8-bit color when used with Extron HDMI Pro Series cable Actively conditions incoming HDMI signals to compensate for signal loss when using long HDMI cables, low quality HDMI cables, and source devices with poor HDMI signal output.
- ▶ Video and audio muting control Provides the capability to mute video and audio signals via contact closure or RS-232 control.
- ▶ Audio input assignment for integration flexibility In normal operation, the analog audio inputs follow the corresponding RGB input. Alternately, they can be assigned to follow preset groups of RGB and digital inputs. Grouped inputs can share a common analog audio input. The HDMI output can be set to pass incoming digital audio, embed the analog audio, or to automatically embed the analog audio when no digital audio is detected.
- Provides +5 VDC, 250 mA power on the output for external peripheral devices
- Multiple control options including front panel, RS-232, contact closure, and auto-input switching
- Auto-input switching Automatically switches to the input with an active video signal. When multiple inputs are active, the switching priority is configurable.
- ➤ Contact closure remote control with tally output Allows for remote selection of an input channel. +5 VDC is provided to light an LED to indicate the currently selected input.
- ▶ Rack-mountable, 1U, half rack width metal enclosure
- ▶ Includes LockIt® HDMI cable lacing brackets
- ▶ Energy-efficient external universal power supply included

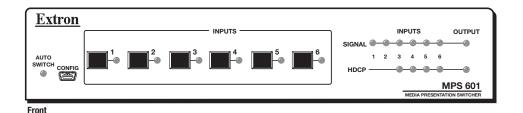
SPECIFICATIONS

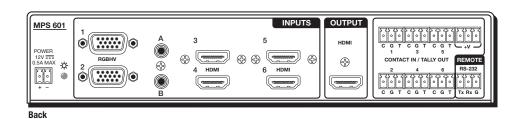
VIDEO		CONTROL/REM	IOTE CONTAC	T CLOSURE WITH TA	LLY OUTPUTS	
VGA inputs		Number/type		(6) contact closure inputs and 6		
Gain	Unity	Connectors		(6) 3.5 mm captive screw conn		
Resolution	640x480 @ 60 Hz to 2048x1080 @ 60 Hz	Contact closure and ta	lly pin configurations	C = contact, $G = ground$, $T = ta$		
HDMI inputs				pin momentarily shorts to groun	nd	
Maximum data rate	6.75 Gbps (2.25 Gbp per color)	GENERAL				
Maximum pixel clock	225 MHz			Enternal		
Resolution	1920x1200 @ 60 Hz or 1080p @ 60 Hz and 2K, 12 bit	Power supply		External		
	color			Input: 100-240 VAC, 50-60 Hz		
Formats	RGB and YCbCr digital video	Power consumption		Output: 12 VDC, 1A, 12 watts		
Standards	DVI 1.0, HDMI, HDCP 1.4	Device		3.9 watts at 12 VDC		
	DS bit rates up to 6.75 Gbps, deep color up to 12-bit, 3D, HD lossless	Device and power supply		5.3 watts at 12 VDC		
audio, and other HDMI specification f	features.	Temperature/humidity	y	Storage -40 to +158 °F (-40 to	170 °C\ / 10% to 00%	
VIDEO INPUT		lemperature/numuny		noncondensing	+70 0j7 1070 t0 3070,	
Number/signal type				Operating +32 to +122 °F (0 to	+50 °C) / 10% to 90%	
VGA inputs	2 VGA-QXGA, RGBHV, RGBS			noncondensing	100 0/1 1070 10 0070,	
HDMI inputs	4 single link HDMI (or single link DVI-D, with appropriate	Cooling			Convection, no vents	
HDIVII IIIputo	adapters)	Thermal dissipation		Convocation, no vonto		
Connectors	auapters)	Device		7.4 BTU/hr		
VGA inputs	2 female 15 pin HD	Device and power supply	ı	12.3 BTU/hr		
HDMI inputs	4 female HDMI, type A	Mounting	,	12.0 010/11		
Nominal level	+ Tottlate Hibitili, type A	Rack mount		Yes, with optional 1U rack shelf		
VGA inputs	0.7 Vp-p for RGB	Furniture mount		Yes, with optional under-desk m		
Minimum/maximum levels	0.7 γρ ρ ισι πασ	Tarment mount		through-desk mounting kit	iounting rate of	
VGA inputs	Analog 0.3 V to 1.5 Vp-p with no offset	Enclosure type		Metal		
Impedance	75 ohms	Enclosure dimensions		1.75" H x 8.75" W x 6.0" D (1U	high, half rack wide)	
Return loss	<-40 dB @ 5 MHz			4.4 cm H x 22.2 cm W x 15.2 c	-	
Equalization	Automatic. Input cable <50' (15 m) @ 1920x1200, 50 or			(Depth excludes connectors.)		
-1	60 Hz; or 1080p; 12-bit color and 2K, using Extron HDMI	Product weight		1.0 lbs (0.5 kg)		
	Pro Series cable	Shipping weight		3.0 lbs (1.4 kg)		
NOTE: The transmission distance v	aries depending on the signal resolution and on the type of cable,	Vibration		ISTA 1A in carton (International	Safe Transit Association)	
graphics card, and display used in th	, ,	Regulatory compliance)			
		Safety		CE, c-UL, UL		
VIDEO OUTPUT		EMI/EMC		CE, C-tick, ICES, FCC Class A, VCCI, ICES		
Number/signal type	1 HDMI (or single link DVI-D)	Environmental		Complies with the appropriate r	equirements of RoHS,	
Re-clocking	Automatic			WEEE		
Peripheral device power	250 mA per output	Warranty		3 years parts and labor		
AUDIO INPUT		NOTE: All nominal leve	ls are at ±10%.			
	(O) O F are above with train to (I) view (D) above (O)	Model	Version Description	1	Part number	
Connectors	(2) 3.5 mm, stereo mini jacks; tip (L), ring (R), sleeve (Gnd)	MPS 601	Six Input HDMI, VGA,		60-1377-01	
Input impedance	>10k ohms unbalanced, DC coupled	0 001	on inpactioning carry	ariadio omiono	00 1011 01	
NOTE: 0 dBu = 0.775 Vrms, 0 dBV	T = 1 VIIIIS, U QBV ≈ 2 QBU	Optional Accessories				
CONTROL/REMOTE	HDMI Micro Series	MicroDigital [™] Ultra-	Flexible HDMI Cables	26-667-xx		
Serial control port	1 RS-232, 3.5 mm captive screw connector, 3-pole, rear	HDMI Ultra Series	Ultra Flexible High Sp		26-663-xx	
Contai Contaioi port	panel	HDMI Pro Series		ndard Speed HDMI Cables	26-650-xx	
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity	Half Rack Shelf System		k Shelf and Accessories	60-1251-xx	
Contact closure	(6) 3.5 mm captive screw connectors, 3-pole, shared with	UTS Series	Under Table Shelf Sy	stem	70-1028-0x	
	tally outputs					
Tally output	(6) 3.5 mm captive screw connectors, 3-pole, shared with					
	contact closure					
Tally output power	+5 VDC, 0.2 A					
USB control ports	1 front panel female mini USB, type B					
USB standards	USB 2.0, low speed					
Program control	Extron PCS Software for Windows, Extron Simple					
·	Instruction Set (SIS™)					

APPLICATION DIAGRAM



PANEL DRAWINGS





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