

SEAMLESS & SCALING Smart-e

Smart-e (UK) Ltd • Hale House Barns • Oakwoodhill • Ockley • Surrey • RH5 5NA • UK **T** +44 (0) 1306 628264 • **F** +44 (0) 1306 628074 • **E** info@smart-e.co.uk • **W** www.smart-e.co.uk

Smart Digital Solutions MDX-72x72

Flexible and comprehensive next generation professional Digital Modular Matrix (DMM) for Commercial, Education and Residential



The MDX-72x72 is a professional flexible Digital Modular Matrix (DMM) capable of selecting between 72 different devices to 72 displays. Seamless switching together with output video scaling provides a professional image selection whilst 4-way modular input and output cards cater for a wide range of signal formats.

Seamlessly route 72 high resolution video sources to 72 displays for HDMI, DVI, HDBaseT, Fibre and 3G-SDI together with analogue VGA, YPrPb and composite

The MDX-72x27 chassis offers an unprecedented level of both switching and distribution functionality for high resolution HDMI, DVI, HDBaseT and 3G-SDI. Legacy products are also catered for with analogue input cards capable of accepting RGBHV, YPrPb, Y/C and PAL/NTSC all of which can be up-scaled to 1080p resolution.

By combining Seamless video switching with modular input and output modules Smart-e sets a new benchmark for complete integrated AV solutions, all of which can be controlled easily via either IP, RS232 and keypad.

Fully HDCP compliant and incorporating enhanced EDID management the matrix is ideal for many multi-channel signal switching and distribution for Commercial, Educational and Residential solutions. Compact 12U 19" rack mounting chassis makes for ease of installation with optional upgrade to SmartiP (extra 1U).



The Smart-e MDX-72x72 features

- HDMI, DVI, HDBaseT, Fibre, VGA & SDI
- HDCP & HDMI 1.4 compliant
- Combined Data rate of 12 Gbits/s
- HDTV 1080p 60Hz 36bpp resolutions
- PC resolutions up to 1920x1200@60 Hz
- Seamless switching
- Enhanced EDID management
- Supports Deep Colour (10, 12 & 16 bit)
- Modular construction— 4 port cards
- Individual output scaling
- TCP/IP control
- Dual port RS232 control
- Inline power for receivers (POH)
- Compact 12U 19" rack mounting
- 3 year warranty
- Sizes ranges from 8x8 to 144x144

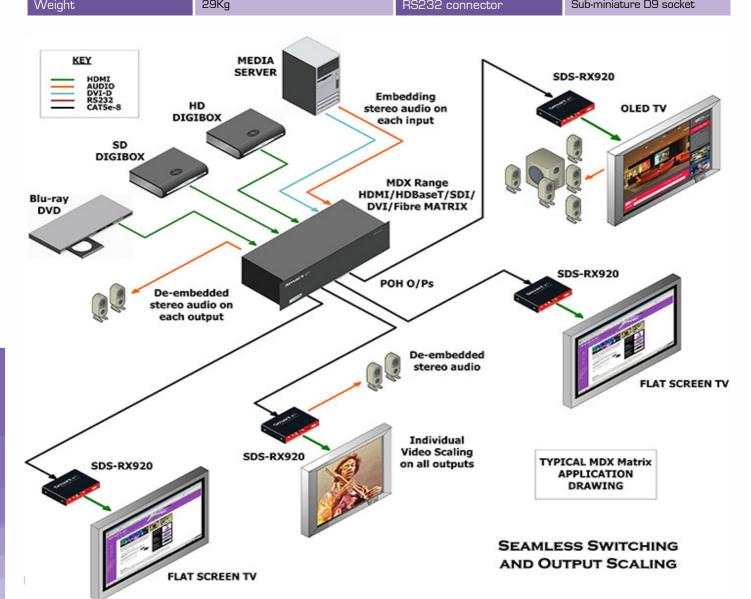




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Video	Video Audio & Power		
Signal Types	HDMI, DVI, VGA, HDBaseT, 3G-SDI	Types	Embedded audio
Formats	1080p @60Hz with 10 & 12 bit Deep Colour, 3D, 4K, 2K & DVI. HDCP compliant, PC up to WUXGA,. Analogue RGBHV, YPrPb, Y/C, PAL or NTSC	Digital Formats	Dolby Digital®, Dolby Digital EX, Dolby Digital Plus, Dolby® TrueHD, DTS®, DTS-ES, DTS 96/24, DTS-HD High Res, DTS- HD Master Audio™
Content Protection	HDCP V1.3	Voltage	110-240 AC 50/60 Hz
Connector	HDMI Type A, RJ45, HD15, BNC	Connector	IEC
Cable Types	CAT 5e, CAT 6/6e, CAT 7, STP, FTP	Fuse rating	1 AT
TV resolutions PC resolutions	480, 576, 720, 1080 p & I, 2K 4K 640x480 through to 1920x1200	Power	30W
Dimensions		Control	
Height	12U	IP	TCP/IP
Width	19" rack mounting	IR signal	30-50Hz
Depth	400mm	RS232	9600 baud: 8 data.1 S, OP
Weight	29Ka	BS232 connector	Sub-miniature D9 socket

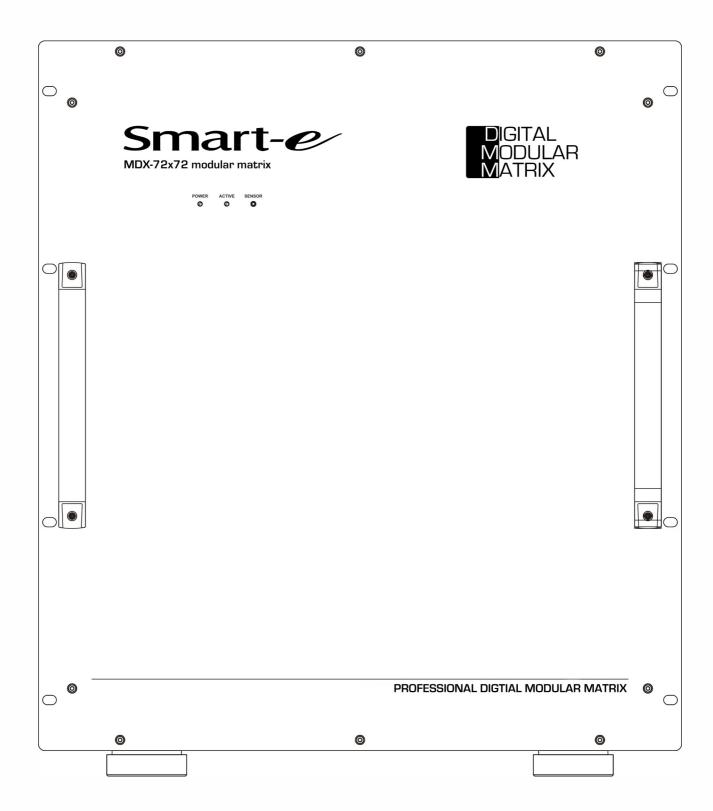






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Panel drawings

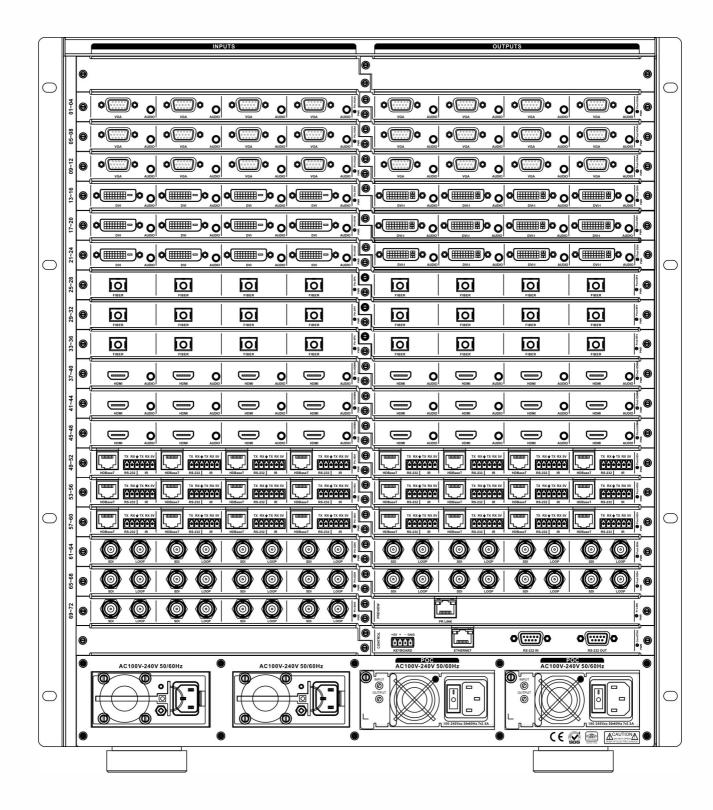






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Input cards

Output cards

MDX-IP4-HDMI

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- Provides 4x independent HDMI [Type-A] inputs
- HDMI 1.4, DVI 1.0 & HDCP 1.3 protocol
- Supports EDID editing function
- Maximum input resolution:
- 1920x1200p @ 60Hz 24bit,1080p @ 60Hz 36bit

MDX-OP4-HDMI



- Provides 4x independent HDMI [Type-A] outputs
- HDMI 1.4, DVI 1.0 & HDCP 1.3 protocol
- Maximum output resolution:
- HDPC: 1920x1200p @ 60Hz 24bit
 - HDTV: 1920x1080p @ 60Hz 36bit (HD1080p60)

MDX-RX4-HDBT



- Provides 4x independent HDBaseT inputs
- Compatible with HDBaseT protocol
- Supports EDID editing function
- Maximum input resolution:
- 1920x1200p @ 60Hz 24bit, 1080p @ 60Hz 36bit

MDX-TX4-HDBT



- Provides 4x independent HDBaseT outputs
- Compatible with HDBaseT protocol
- Maximum output resolution:
 - HDPC: 1920x1200p @ 60Hz 24bit
- HDTV: 1920x1080p @ 60Hz 36bit (HD1080p60)

MDX-RX4-FB



- Provides 4x independent SC optical fibre inputs
- Multimode 850nm <300m
- Supports EDID editing function
- Maximum input resolution:
- 1920x1200p @ 60Hz 24bit, 1080p @ 60Hz 36bit

MDX-TX4-FB



- Provides 4x independent SC optical fibre outputs
- Multimode 850nm <300m
- Maximum output resolution:
 - HDPC: 1920x1200p @ 60Hz 24bit
- HDTV: 1920x1080p @ 60Hz 36bit (HD1080p60)

MDX-IP4-DVI



- Provides 4x independent DVI inputs
- HDMI 1.4, DVI 1.0 & HDCP 1.3 protocol
- Supports EDID editing function
- Maximum input resolution:
- 1920x1200p @ 60Hz 24bit,1080p @ 60Hz 36bit

MDX-OP4-DVI



- Provides 4x independent DVI outputs
- HDMI 1.4, DVI 1.0 & HDCP 1.3 protocol
- Maximum output resolution:
- HDPC: 1920x1200p @ 60Hz 24bit
- HDTV: 1920x1080p @ 60Hz 36bit (HD1080p60)

MDX-IP4-VGA



- Provides 4x independent Analogue [HD15] inputs VGA/RGBHV, YPbPr, Y/C S-video, Composite-video (using adapter cable)
- Maximum input resolution: 1920x1200p @ 60Hz 24bit, 1080p @ 60Hz 36bit
- Digitises and up-scales input resolution ≤1920x1080p @ 60Hz



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Smart Digital Solutions SDS-RX920

Flexible and cost effective HDBaseT 100 m receiver with integral audio de-embedder



The **SDS-RX920** is a HDBaseT receiver unit designed to accept a Cat 6 input and output a HDMI signal together with bidirectional infrared and RS232 signals over a single twisted pair CAT 5e-8 cable. The units use HDbaseT technology to extend PC resolutions up to 1920x1200 @60Hz together with 1080p @60Hz. In addition the **SDS-RX920** will also deembed the audio within the HDMI transmission.

HDBaseT receiver for HDMI, IR and RS232 over a single 100m of CAT 5e-8 cable together with analogue audio output

The **SDS-RX920** is a robust professional product designed for reliability and functionality. The unit meets all the HDBaseT specifications as a receiving device together with an audio extractor function.

The internal digital audio within the HDMI signal is deembedded and then converted to an analogue stereo audio using a high quality Digital to Analogue converter (DAC), the signal is then presented on a 3.5mm stereo jack socket.

Wide band Infra-Red via external adapters (SM-EYER & SM-LED) and RS232 signals are extended through the same CAT 5e-8 cable between the transmitter and receiver unit up to 100m of cable. Each box has fixing holes to facilitate ease of installation and multiple units can fit side by side on a 1U P 19" rack shelf.



The Smart-e SDS-RX920 features

- HDMI V1.3a & DVI V1.0
- Deep Colour
- 100m of CAT5e-8 STP cable
- HDCP V1.3 compliant
- Audio de-embedder
- HDMI output
- 100BaseT Ethernet passthrough
- Supports 1920x1200 @ 60 Hz
- Wide bandwidth IR transmission
- Analogue audio output
- Transparent RS232 pass-through
- Secure HDMI connector
- Convenient fixing holes
- · Cost effective, multi-function unit

The SDS-900 range from Smart-e provides a flexible and cost effective solution for point to point transmission for a single source to a single display

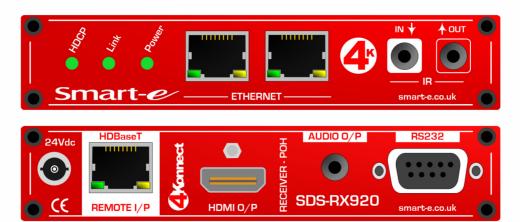


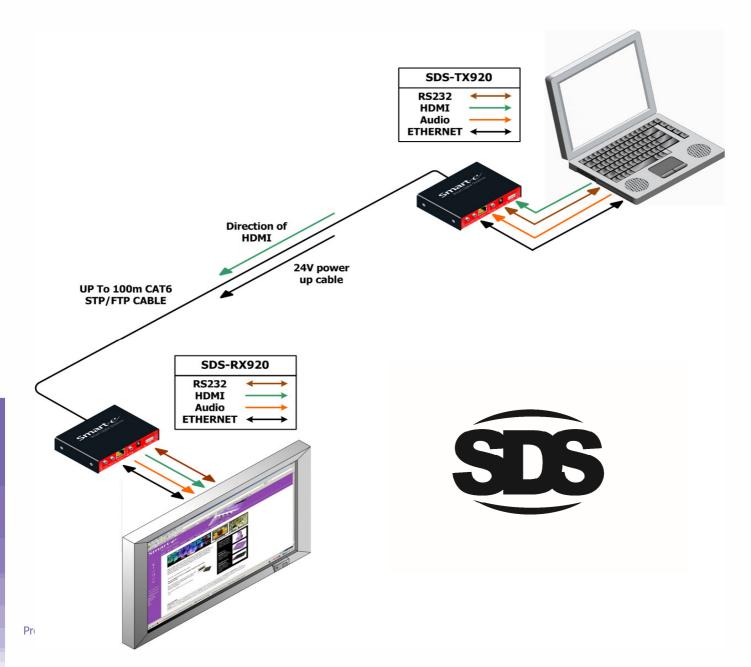


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SDS-RX920

Front and rear panel connections









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SDS-RX920 Specification

Digital Video Digital Audio

Signal Types	HDMI, DVI, DisplayPort Multimode	Types	Embedded audio in HDMI
Formats	HDMI V1.3a DVD V1.0 Deep Color	Formats	Dolby Digital® Plus Dolby® TrueHD DTS-HD High Res DTS-HD Master Audio™, up to 8chPCM
Content Protection	HDCP V1.3		
Connector	HDMI Type A Female or DVD-D		
Bandwidth	2.25Gbps each colour		
TV resolutions PC resolutions	480, 576, 720, 1080 p & I @60Hz 640x480 to 1920x1200 @60Hz	Connector	HDMI

Analogue Audio Power

Туре	Analogue stereo	Voltage	24V DC POH
Bandwidth	20-20kHz	Connector	2.1mm DC jack
Impedance	51R output	Max. current	500mA per unit
Signal level	2V RMS (max)	Power	11.5Watts
Dimensions		Control	
Height	34mm	IR signal	38kHz
Width	165mm	IR connector	3.5mm jack socket
Depth	195mm with mounting ears	RS232	<115Kbaud
Weight	100g	RS232 connector	3.5mm jack socket

