Product Spec Sheet from Rentex

LightWare 16x16 DVI Matrix Switcher
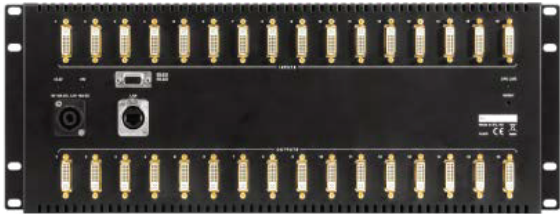
Mfr Part No. MX16x16DVI-Slim

Lightware MX16x16DVI-Slim is a single link DVI matrix switcher with 16 DVI inputs and 16 DVI outputs, which routes any input(s) to any combination of output(s). The router conforms to DVI 1.0 specification, and switches signals between 25 -165MHz pixel clock frequency: from 640x480@60Hz to 1920x1200@60Hz or 2048x1080@60Hz PC resolutions.

The input signals are compensated for 12dB loss and outputs are preemphasized by +6dB, this way cable lengths up to 20 meters (65 feet) can be used. The switcher has an RS-232 and an RJ45 LAN port for remote control applications and a control panel for local control operation.

Features:

- Industries smallest and lightest frame
- Routing 16x16 DVI 1.0 signals
- 1920x1200 or 2048x1080 Maximum Resolution
- Advanced EDID Management
- RS-232 or RS-422 and Ethernet Control
- No switching latency zero frame delay

Detailed Specifications

Routing	16x16 non-blocking - any input to any output(s)
Bit rate	2.25 Gbit/s per color
EDID Memory	50 factory preset and 50 user programmable
EDID Emulation	256-byte extended EDID v1.3
Input Connectors	29-pole DVI-I digital only
Input Cable Equalization	Yes, +12dB fixed
EDID emulation	Yes, for each input connector
Output Connectors	29 pole DVI-I digital only
Output Preemhasis	Yes, +6dB fixed
Power	100 to 240 VAC
Power Consumption	32 W (typical) 72 W (max)
Net Weght	4.1 lbs (1.85kg)
Dimensions (WxHxD)	19.0 x 7.0 x 1.3 inches 482 x 176.5 x 32.8 mm

Signal:

Data Rate	All between 25 Mbps and 2.25 Gbps / TMDS channel
Channels	1x TMDS Clock + 3x TMDS Colors
Color Depth	Maximum 36 bits, 12 bit/color
Color Format	RGB, YCbCr 4:4:4
HDTV Resolutions	720p, 1080i, 1080p
HDMI 1.3a Compatible	Yes (embedded audio)
HDCP Compliant	No
Resolution	640x480 to 1920x1200 or 2048x1080 @60Hz

Control:

Front panel buttons	Yes, 37 buttons
Serial Port Connector	9 pole D-SUB female RS-232 or RS-422
Baud Rate	9600 Baud, 8 bit, 1stop bit, no parity
Ethernet Port Connector	RJ45 female connector
Ethernet Protocol	TCP/IP, HTTP, TFTP, Telnet