SD-VUE/50A

USB Mini Extender

All you need to extend high-resolution video, fully transparent USB, stereo audio and serial port signals up to 50m over Category 5, 5e, 6 or Level 7 (CATx) cable.

- **High video resolution: 1600x1200@75Hz over 50m**

- **Transparent USB 2.0 (low/full speed only)**

- **Integral 4-port USB hub**

- **Local video output**

- **Emulated VESA DDC**

- **Bi-directional 16-bit stereo audio**

- **Transparent serial port**

- **Local unit powered directly by PC (optional 5V PSU connection)**

- **Status indicator LEDs on RJ45 ports**

- **Rack-mountable (3 units across 1U)**

- **Surge-protected CATx interfaces**

Remote unit - front view

Contents

- Extender Remote unit
- 5V DC universal power supply for Remote unit
- Extender Local unit
- CPU cable set (1.0m) with USB and VGA video (HD15 M-F) connectors
- Serial cable (DB9 M-F)
- Two audio cables (3.5mm stereo)
- IEC power cord
- Quick start guide

Local unit - rear view

Specification

Video

Maximum Resolution	1600x1200@75Hz over 50m Operation at higher resolutions/ refresh rates may be possible at shorter distances
Video Compatibility	VGA to UXGA, RGB
Video I/O	0.7V P-P
VESA DDC	Emulated DDC for each video channel Local Unit reports as monitor capable of all resolutions and refresh rates normally used with product. For different resolutions, choose manually in OS and ignore DDC.
Video Compensation	2-stage: switch-selectable
Video Coupling	DC
Sync I/O	Separate/Composite TTL level Sync on green Sync polarity is preserved
Video In Connectors	HD15 (male)
Video Out Connectors	HD15 (female)

USB

USB Compatibility	Transparent USB 2.0 compliant (low/full speed only)
Connectors(CPU)	1 x USB B socket
Connectors (Device)	4 x USB A socket
Extension Distance	50m (nominal) Maximum distance achievable may vary between 40 and 60m depending on system. Adding external USB hubs may decrease the maximum extension distance by up to 10m for each hub added. Adding bus-powered hubs in front of the Local Unit is not recommended.

Serial Interface

Max Baud Rate	19.2k baud
Serial Data Format	Transparent
Signals Transferred	TX, RX, RTS, CTS, DTR,DSR
Local Connector	DB9 female (DCE)
Remote Connector	DB9 male (DTE)

Audio Interface

Description	Bi-directional stereo audio link
Transmission method	Digitized virtually CD quality audio (16-bit, 38.4kHz)
Signal levels	Line level (4 Volts Pk-Pk maximum)
Input Impedance	47kΩ
Local Connectors	2x3.5mm stereo jack socket (Line In & Line Out)
Remote Connectors	2x3.5mm stereo jack socket (Line/Mic In & Line Out)
Microphone Support	May be connected to Remote Unit Pullup resistor provides bias for condenser microphone Option to set microphone amplification to +17dB

Power Requirements

Local Unit	5V supplied by CPU or powered hub. Connector available for optional 5V PSU.
Remote Unit	5V regulated, 4A (20W) PSU supplied Universal IEC input 2.1mm DC jack (centre positive)

Size and Shipping Weight

Local Unit	120x110x44mm (1U)
Remote Unit	138x98x44mm (1U)
Shipping Weight	1.8 kg

Environmental

Operating Temp	0 to 40 °C
Storage Temp	-30 to 65 °C
Relative Humidity	5-90% non-condensing
Chassis Construction	Fully shielded. Black painted steel
Approvals	CE and FCC (Class A)

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Application

CPU

Local Unit

Local Video Output

USB Mini Extender

INTERCONNECT

LOCAL

USB and video extension over CATx cables up to 50m

Remote Unit

LINE LEVEL AUDIO
OUT   IN
SERIAL

USB

5VDC

Serial and
Audio Transmission

Remote Console

USB Devices