

SDBX/DA1

Dual Access

CATx KVM Extender Kit

All you need to extend high-resolution video, PS/2 keyboard and mouse, stereo audio, and serial port signals up to 300m over Category 5, 5e, 6 or Level 7 (CATx) cable with access at both Local and Remote units.

- **Dual access with Private mode**
- **High video resolution:**
1600x1200@60Hz over 200m
1280x1024@75Hz over 300m
- **Independent low frequency (LF) and high frequency (HF) cable equalization to match all cable type**
- **Fully integrated skew compensation**
- **Control and video tuning from Remote keyboard (settings stored in EEPROM memory)**
- **Surge-protected CATx interfaces**
- **Transparent serial port**
- **Bi-directional stereo audio**
- **Small footprint chassis**
- **Status indicator LEDs on RJ45 ports**
- **Rack mount kit available**

Remote unit - front view



Contents

- Extender Remote unit
- 9V DC universal power supply for Remote unit
- Extender Local unit
- KVM CPU cable set (1.8m) with PS/2 keyboard and mouse connectors, and VGA video connectors
- Serial cable (1.0m)
- Dual audio cable (1.0m) with 3.5mm stereo plugs
- IEC AC power cord
- Quick start guide

Local unit - rear view



Specification

Video

Maximum Resolution 1600x1200@60Hz over 200m
1280x1024@75Hz over 300m
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 Local Unit emulates universal monitor. Custom DDC information can be supplied; contact Technical Support for details.

Skew Compensation

15-stage. 42ns max. 2.8ns per step. Compensation on each colour

Video Compensation

Separate LF & HF equalizers
DC

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)

Keyboard and Mouse

KB Compatibility

PC/AT, PS/2

Mouse Compatibility

Standard PS/2 two/three button
Standard wheel mice

Connectors(CPU)

6-pin miniDIN socket

Connectors (Device)

6-pin miniDIN socket

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 (4V PK-PK maximum)

Input Impedance

47kΩ

Local Connectors

2 x 3.5mm stereo jack socket (Line In & Line Out)

Remote Connectors

2 x 3.5mm 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 at up to 200mA supplied by PC's PS/2 keyboard port.
External PS/2 PSU may also be connected

Remote Unit

9V regulated, 1A (max)
PSU 0V must be isolated from power ground

Remote Unit PSU

2.5mm DC jack (centre positive)
9V DC, 2A (20W), isolated output
Universal IEC input
2.5mm DC jack (centre positive)

Size and Shipping Weight

Local Unit

202x100x44mm (1U)

Remote Unit

143x145x44mm (1U)

Shipping Weight

2.5 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, FCC (Class A)

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Application

