

# SDBX/UA2

## Dual Channel CATx KVM Extender Kit

All you need to extend two channels of high-resolution video, USB HID keyboard and mouse, stereo audio, and serial port signals up to 300m over Category 5, 5e, 6 or Level 7 (CATx) cable.

Remote unit - front view



- **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 types**
- **Fully integrated skew compensation**
- **Dual Local video outputs**
- **DDC support on both video channels**
- **Flash upgradeable via USB**
- **Control and video tuning from Remote keyboard (settings stored in EEPROM memory)**
- **Bi-directional stereo audio**
- **Transparent serial port**
- **Surge-protected CATx interfaces**
- **Small footprint chassis**
- **Status indicator LEDs on RJ45 ports**
- **Rack mount kit available**

### 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 connectors
- CPU secondary video cable (1.0m) with 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.  
DDC information may be disabled or read  
from remote monitor(s).
- Skew Compensation** 15-stage. 42ns max. 2.8ns per step.  
Compensation on each colour
- Video Compensation** Separate LF & HF equalizers
- 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

- KB Compatibility** Most USB keyboards
- Mouse Compatibility** Most USB mice
- HID Compatibility** Certain other HID devices
- Connectors(CPU)** USB B connector
- Connectors (Device)** 4 x USB A connector

## 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** 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 at up to 275mA supplied by PC's USB  
keyboard port  
External PSU may also be connected  
(not included)
- Remote Unit** 5V regulated, 1.2A (excluding USB  
devices)  
2.1mm DC jack (centre positive)
- Remote Unit PSU** 5V DC, 4A (20W)  
Universal IEC input  
2.1mm DC jack (centre positive)

## Size and Shipping Weight

- Local Unit** 145x113x44mm (1U)
- Remote Unit** 144x151x44mm (1U)
- Shipping Weight** 2.4 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

