

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.

- **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**

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 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	47k Ω
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)

SDBX/UA2

Dual Channel

CATx KVM Extender Kit

Application

