

SDBX/SA2-1

Dual Channel CATx KVM Extender Kit

All you need to extend two channels of 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.

- **Dual-head video support**
- **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**
- **Flash upgradeable**
- **DDC support on both video channels**
- **Control and video tuning from Remote keyboard (settings stored in EEPROM memory)**
- **Bi-directional stereo audio**
- **Transparent serial port**
- **Surge-protected CATx interfaces**
- **Status indicator LEDs on RJ45 ports**
- **Small footprint chassis**
- **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 combination cable (1.0m) with PS/2 keyboard and mouse connectors, VGA video connector, and 25-way extender connector
- 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, flash-upgraded 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	Primary video: DB25 (female) Local Units (KVM); Secondary video: 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)	DB25 (female) (KVM)
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	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 230mA supplied by PC's PS/2 keyboard port. External PSU may also be connected (not included)
Remote Unit	9V regulated, 1A (max) PSU 0V must be isolated from power ground 2.5mm DC jack (centre positive)
Remote Unit PSU	9V DC, 2A (20W), isolated output Universal IEC input 2.5mm DC jack (centre positive)

Size and Shipping Weight

Local Unit	145x100x44mm (1U)
Remote Unit	143x145x44mm (1U)
Shipping Weight	2.2 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

