

SDBX/DA2

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 with access at both Local and Remote units.

- **Dual-head video support at both Local and Remote consoles**
- **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 types**
- **Fully integrated skew compensation**
- **DDC support on both video channels**
- **Flash upgradeable**
- **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
- 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 250mA 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** 2.3 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

