

SDBX/RA1

CATx KVM Extender

Remote Unit

Extends one channel 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.

- **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**
- **Bi-directional stereo audio**
- **Transparent serial port**
- **Control and video tuning from Remote keyboard (settings stored in EEPROM memory)**
- **Surge-protected CATx interfaces**
- **Small footprint chassis**
- **Status indicator LEDs on RJ45 ports**
- **Rack mount kit available**

Front view



Compatibility

The SDBX/RA1 Remote Unit offers compatibility with the following rack mount KVM extenders:

- SDRK/6A
- SDRK/6AD
- SDRK/6*
- SDRK/12*
- SDRK/6D*

* Video only applications



Rear view

SDBX/RA1

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Remote Unit

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 Dependent on choice of Local Unit/Hub and hardware versions; contact Technical Support for details.

Skew Compensation 15-stage. 42ns max. 2.8ns per step. Compensation available 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 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 6-pin miniDIN socket

Serial Interface

Max Baud Rate 19.2k baud

Serial Data Format Transparent

Signals Transferred TX, RX, RTS, CTS, DTR, DSR

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

Remote Connectors 2x3.5mm stereo jack socket (Line/Mic In & Line Out)

Microphone Support Pullup resistor provides bias for condenser microphone. Option to set microphone amplification to +17dB

Power Requirements

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

Remote Unit 143x145x44mm (1U)

Shipping Weight 1.1 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)

Example Application

Touch screen network with local access to CPUs through KVM switch

