

SDBX/RA4

CATx KVM Extender

Remote Unit

Extends four 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.

- **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/RA4 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/RA4

CATx KVM Extender

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, 1.2A (max) PSU 0V must be isolated from power ground 2.5mm DC jack (centre positive)
Remote Unit PSU	9V DC, 2A (18W), isolated output Universal IEC input 2.5mm DC jack (centre positive)

Size and Shipping Weight

Remote Unit	279x145x29mm
Shipping Weight	1.7 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

Up to four quad monitor consoles with serial and audio extension (two shown)

