

SDBX/R1

CATx KVM Extender

Remote Unit

Extends one channel of high-resolution video and PS/2 keyboard and mouse 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**
- **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**



Compatibility

The SDBX/R1 Remote Unit offers compatibility with the following rack mount KVM extenders:

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

* Video only applications



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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 |

Power Requirements

| | |
|------------------------|--|
| 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

| | |
|------------------------|--------------|
| Remote Unit | 143x145x29mm |
| Shipping Weight | 1.0 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

SDRK/6 Hub used with SDBX/R1 units to extend up to six CPUs

