

SDMX/RA2

PS/2 Mini Extender Remote Unit

Extends two channels of high-resolution video, PS/2 keyboard and mouse, stereo audio, and serial port signals up to 50m over Category 5, 5e, 6 or Level 7 (CATx) cable.

- **Dual-head video support**
- **High video resolution: 1600x1200@75Hz over 50m**
- **DDC emulation**
(when used with compatible Local units/hubs)
- **Control and video tuning from Remote keyboard (settings stored in EEPROM memory)**
- **Flash upgradeable**
- **Bi-directional stereo audio**
- **Transparent serial port**
- **Status indicator LEDs on RJ45 ports**
- **Surge-protected CATx interfaces**
- **Small footprint chassis**
- **Rack mount kit available**



Front view

Compatibility

The SDMX/RA2 dual channel 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

SDMX/RA2

PS/2 Mini Extender

Remote Unit

Specification

Video

| | |
|-----------------------------|---|
| Maximum Resolution | 1600x1200@75Hz over 50m |
| Video Compatibility | VGA to UXGA, RGB |
| VESA DDC | Compatible Local Unit/Hub emulates universal monitor. DDC information may be disabled, flash-upgraded or read from remote monitor(s). |
| Video I/O | 0.7V P-P |
| Video Compensation | Two ranges: 5-25m, 25-50m; set by keyboard command |
| 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

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|----------------------------|---|
| KB Compatibility | PC/AT, PS/2 |
| Mouse Compatibility | Standard PS/2 two/three button Standard wheel mice |
| Connectors | 6-pin miniDIN socket |

Serial Interface

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

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

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|-------------------------------|---|
| Remote Unit | 5V DC, 0.75A (max) 2.1mm DC jack (centre positive) |
| Remote Unit PSU | 5V DC, 4A (20W) Universal IEC input 2.1mm DC jack (centre positive) |
| Overvoltage Protection | Unit switches off if input exceeds 5.6V |

Size and Shipping Weight

| | |
|------------------------|-------------------|
| Remote Unit | 138x100x44mm (1U) |
| Shipping Weight | 1.2 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) |

Example Application

Dual monitor consoles with serial and audio extension

