

DSNet Splitter and Receiver

K5DS-SP8
K5DS-RC2



K5DS-SP and K5DS-RC

Signage Broadcast over Cat5 Cables

Features

- Networking devices for DSNet
- Support 300m UTP cables
- The receiver can drive two monitors
- Cable amplification, compensation and deskewing
- Light and contrast video-settings
- Volume and stereo-balance audio settings
- Transparent to the monitors
- Bidirectional RS232 connections up to 115200 bps with management signals.
- Metal housing
- One year warranty and free technical support.

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What is DSNet ?

DSNet (Digital Signage Network) comes as a complement of the traditional digital signage schema by allowing a Player to display its audiovisual content over cat5 cables. Instead of one or two joined panels, a Player can handle a quasi unlimited number of monitors distributed in an area of approximately 300m radius. The surface covered by DSNet is sufficient for a large supermarket. The audiovisual content is broadcasted to all screens simultaneously at lower cost. With DSNet, at comparable price, you have much more screens and thus you improve the impact of your digital signage campaigns.

DSNet is based on three types of devices: broadcaster **K5DS-BR8** or **K5DS-BR16**; splitter **K5DS-SP**; receiver **K5DS-RC**.

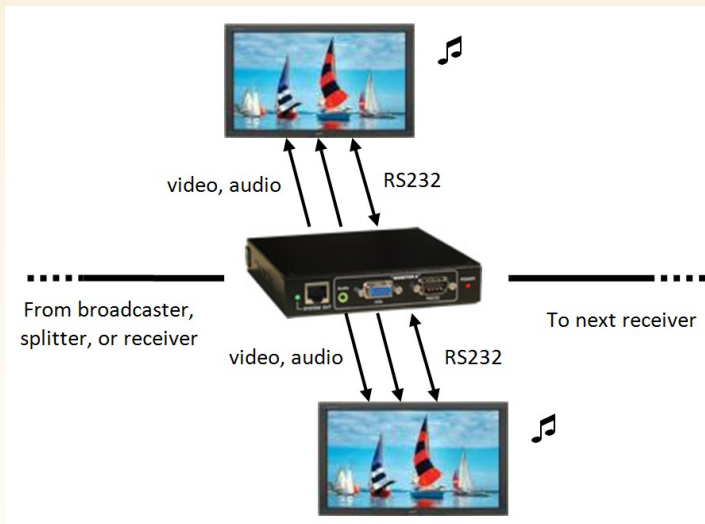
K5DS-SP

K5DS-SP is useful in large configurations. It amplifies, restores, and forwards to 8 output ports, the audio, video, and data streams received from the input port. The purpose of K5DS-SP is to increase the number of monitors connected to the broadcaster. With one tier of splitters, the number of display panels connected to a single K5DS-BR can increase from 160 to 1024, and with two tiers of splitters it can pass to 6144. K5DS-SP also retransmits all data received from the monitors to the broadcaster.



K5DS-RC

K5DS-RC is a long haul 300m receiver able to connect two monitors. Thanks to their chaining port, the receivers can be wired in series. The two RS232 ports can exchange bidirectional data with the monitors at data rates up to 115200 bps.



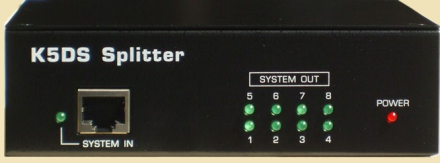

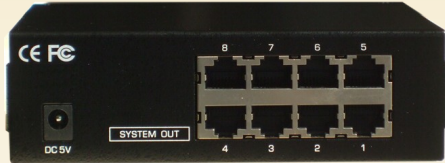

You can tune the following settings in a few mouse clicks:

- Cable compensation
- Cable RGB deskew
- Video contrast
- Video brightness
- Audio volume
- Audio balance
- RS232 settings
- Unidirectional or bidirectional RS232

Note1: All settings are sent by K5DS-BR to the receivers and splitters across the Cat5 cables. K5DS-RC and K5DS-SP don't have any setscrews that require you to climb a ladder with a screw driver. The video and audio settings can be easily set in a few seconds looking at the display panels and moving the sliders of DSNet Management until the result is perfect. All settings are digital and saved into EEPROMs.

Note2: In large installations, if the display panels are far from an Ethernet access, we recommend you run DSNet Management on a notebook or laptop featuring a wireless interface or 3G key. By this way you can access to the broadcaster Management Server over the local network or over the Internet.

Technical Specifications

| | K5DS-SP | K5DS-RC |
|-------------------------------|---|---|
| <i>Cable</i> | Recommended cable: UTP Cat5; Supported cable: UTP Cat5, UTP Cat5e, UTP Cat6 Max delay skew between pairs: 60ns; Max attenuation: 52 dB at 50MHz | |
| <i>Front Panel</i> |  |  |
| <i>Front Panel Connectors</i> | System In: RJ45 for connection to broadcaster, splitter or previous receiver. | <ol style="list-style-type: none"> 1. System In: RJ45 for connection to broadcaster, splitter or previous receiver. 2. Audio: Stereo audio port 3. VGA: Full VGA interface 4. RS232: Up to 115200 bps, RTS/CTS, DSR/DTR |
| <i>Front Panel Indicators</i> | <ol style="list-style-type: none"> 1. Power 2. System In Enabled. 3. System Out Port Enabled. <p>Note: Disabled ports receive and drive no stream.</p> | <ol style="list-style-type: none"> 1. Power 2. System In Enabled |
| <i>Back Panel</i> |  |  |
| <i>Back Panel Connectors</i> | System Out: 8 x RJ45 for connections to next splitters or receivers. | <ol style="list-style-type: none"> 1. System Out: RJ45 chaining port for serial wiring. 2. Audio: Stereo audio port 3. VGA: Full VGA interface 4. RS232: Up to 115200 bps, RTS/CTS, DSR/DTR |
| <i>Back Panel Indicators</i> | | <ol style="list-style-type: none"> 1. Power 2. System Out Enabled |
| <i>Video Resolution</i> | 1920 x 1080 @ 60HZ over 300m. Higher resolutions are possible with shorter cables. | |
| <i>Management</i> | Via the broadcaster with DSNet Manager software. | |
| <i>Power Supply</i> | External 5V 2A power adapter | |
| <i>Working temperature</i> | 0 to 50°C | |
| <i>Stocking Temperature</i> | -20 to 60°C | |
| <i>Humidity</i> | 0 to 90%, not condensing | |
| <i>Housing</i> | Metal case | |
| <i>Dimension (L x l x H)</i> | 130 x 135 x 40 mm | 130 x 135 x 25 mm |
| <i>Weight</i> | 600 g | 540g |
| <i>Standards</i> | FCC, CE | |