

# dataRack

Flexible stacking of extension equipment over Cat 5/6 cables



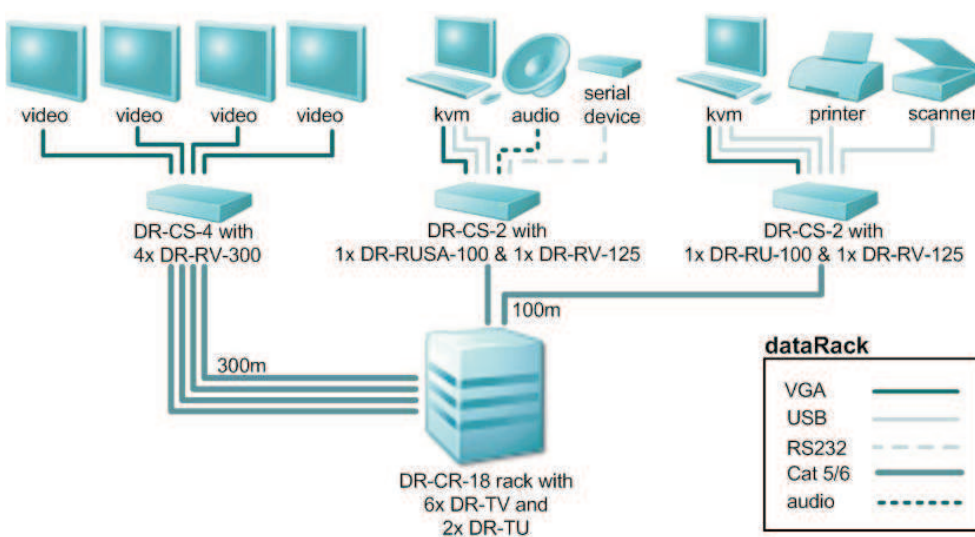
## dataRack - modular extension

The dataRack is a modular, stackable, signal extender system that runs from a standard 19" rack. The system consists of grouped rack-transmitters, connecting to stand-alone receivers using standard Cat 5/6 cabling.

The modular setup enables a high level of flexibility in designing extender solutions as it allows for multiple combinations of various signals, such as VGA, PS2, USB, Serial and Audio in a single solution.

CIM interconn's proprietary transmission technology is unrivaled in image quality and adaptability and has been fully implemented in the dataRack series. The dataRack is built using the technology from our successful dataCat extenders that have been integrated in major businesses throughout Europe since 1999. The dataRack, however, takes extension further by adding rack-functionality and increased flexibility, making extension far more attractive and cost-effective for large corporations.

## Configuration



## How it works

With the transmitter unit placed in a rack and connected directly to the server, it converts the VGA into an analog RGB signal that is transmitted using 3 pairs of the Cat 5/6 cable. The digital signals from PS/2 or USB are packed, multiplexed and converted into balanced signals, before being transmitted over the 4th pair of the Cat 5/6 cable. The signals are then transmitted to the receiver where they are converted back into their original formats. The transmission happens in real-time with no discernible delay on either video, PS/2 or USB.

### Transmitter modules:

- **tv1 - VGA transmitter module:** A transmitter for VGA signal. The transmitter is linked to the receiver through a Cat 5/6 cable. The VGA transmitter is compatible with the receivers rv125 and rv300.
- **tu100 - USB transmitter module:** The USB module transfer a transparent USB 1.1 signal to the receivers ru100 or rusa100. The tu100 works combined with the tv1. These are connected using an enclosed USB A-B cable.
- **tp - PS/2 transmitter module:** This module transfer PS/2 signal to the receiver rp. The tp works combined with the tv1 through an enclosed PS/2 cable.

### Receiver modules:

- **rv125 & rv300 - VGA receiver modules:** Receiver module with VGA output that either supports resolutions of up to 1600x1280 at 50 m and up to 1280x1024 at 125 m for the rv125, or resolutions of 2048x1536 at 100 m and up to 1600x1200 at 300 m for the rv300. The rv300 module features an integrated skew compensation.
- **ru100 - USB receiver module:** Receiver module with integrated 4-port USB hub that allows for USB connectivity to USB devices, such as keyboard/mouse, printer, external hard-disk, etc. at distances of up to 100 m.
- **rp - PS/2 receiver module:** Receiver module with PS/2 connectivity for a standard keyboard and mouse (compatible with most 2-3 button mice) of distances up to 1000 m.
- **rusa100 - USB, RS232 and Audio module:** Receiver module with integrated 2-port USB hub, RS232 Serial connection and 2-way stereo audio at distances of up to 100 m.

### Housings:

- **cr18 - Rack chassis:** Come fully equipped for fitting into a standard 19" rack.
- **cs1, cs2, cs4 and cs6 - Stand-alone chassis:** Come in metal casings for desk-top use. Stand-alone chassis are available with either 1, 2, 4 or 6 module-slots.

### Technical Specifications

Maximum Resolution:	up to 2048x1536 @ 85 Hz
Maximum Distance:	100 / 125 / 300 meters
Video Compatibility:	VGA, SVGA, XGA, SXGA+, UXGA
Video Bandwidth:	Transmitter: 400 Mhz Receiver: 250 Mhz
Link Cable:	Cat 5/5e/6 UTP/FTP Cable, EIA/TIA 568
Connectors Transmitter:	1x RJ45 (link), 1x HD15 (VGA)
USB module:	1x USB type B
PS/2 module:	2x PS/2 connectors
Connectors Receiver:	1x RJ45 (link), 1x HD15 (VGA)
USB module:	4x USB Type A
PS/2 module:	2x PS/2 connectors
USA module:	2 USB A, 1x DB9m (Serial), 2x mini-jack (Audio)
Power Supply Rack chassis:	230V AC
Stand-alone chassis:	12V DC 1.5A

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