

# RK-DVX200

## Rack Mountable 16-Port DVI-D over Cat6 Extender



Extend up to 16 DVI-D signals over Cat6 STP cables  
up to 225 feet from one rack mountable unit

### FEATURES

- Supports up to 16 Single-Link DVI Sources
- Supports High-Definition Video up to 1920x1200 (@60Hz)
- Extends up to 225 Feet with Cat6 23AWG STP Cables
- Zero Pixel Loss with TMDS Signal Correction
- DDC from Internal Table
- Compatible with all Operating Systems
- Supports 1.5 and 12 Mbps Rates
- Compatible with all Major DVD Players
- Rack Mountable Solution
- Data Recovery for Digital Video
- Plug-and-Play Ready
- Uncompressed Video



**Smart-AVI**  
SMART AUDIO VIDEO INNOVATION

## OVERVIEW

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The RK-DVX200 is the ideal solution for extending DVI-D signals to remote locations up to 225 feet away. It is the ideal way to extend up to 16 workstation computers from one location to another location or various locations. It is fully compatible with Mac, PC and Linux standards. Up to 16 displays can be extended easily from a rack without the complication or expense of multiple extenders. Rather than buy multiple extenders for rack components, and having to find power strips or numerous power outlets for the adapters, the SmartAVI rack series of extenders allows for up to 16 inputs and 16 outputs from a single rack device. The extender comes in three configurations: four inputs and four outputs, eight inputs and eight outputs, and 16 inputs and 16 outputs. The extender can achieve the full output distance of 225 feet when using a Cat6 23AWG STP cable.

The RK-DVX200 rack extender can be implemented in three ways. First, the rack device can be used as a transmitter, extending signals to multiple small receivers (DVX-RX200). Second, the rack device can be used as a receiver, taking in signals from multiple small transmitters (DVX-TX200). Third, the rack device can be used in tandem with another rack device.



RK-DVX200 Transmitter (Rear)



DVX-200 Transmitter

## APPLICATIONS

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### MEDICAL FIELD

In the medical field where sensitive electronic devices are frequently used, isolating workstation computers can be a matter of safety. The RK-DVX200 allows the workstation computers to be housed in a central location, away from those sensitive devices.

### INDUSTRIAL WORK AREAS

In industrial work areas that may be too harsh for a workstation computer, the RK-DVX200 can consolidate the computers into a safe location.

### DIGITAL SIGNAGE

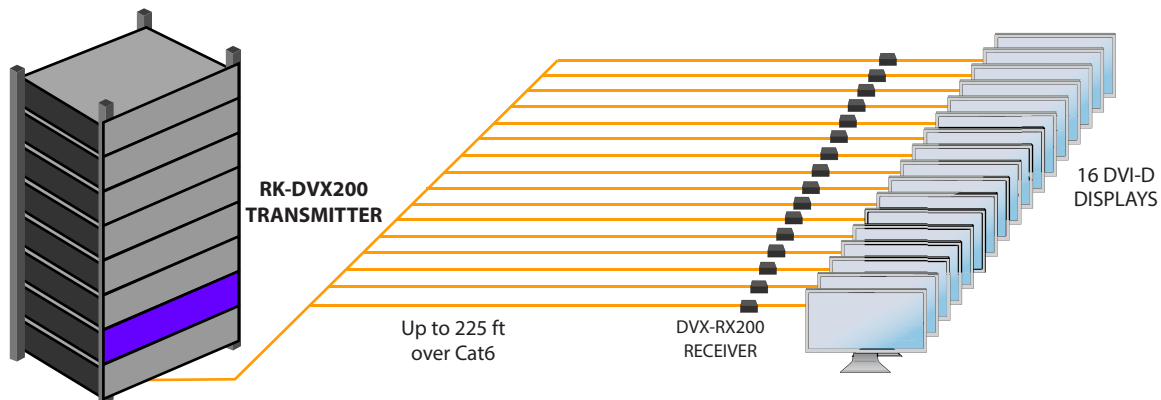
For easy access to a digital signage network, the RK-DVX200 is an excellent deployment option. With the RK-DVX200, up to 16 digital signage devices can be centralized and secured from public access.

### INFORMATION KIOSKS/DISPLAYS

As with most information booths and kiosks, there is a risk of damage or theft. The RK-DVX200 is the best way to secure computer hardware, by consolidating it to a secure location away from public access.

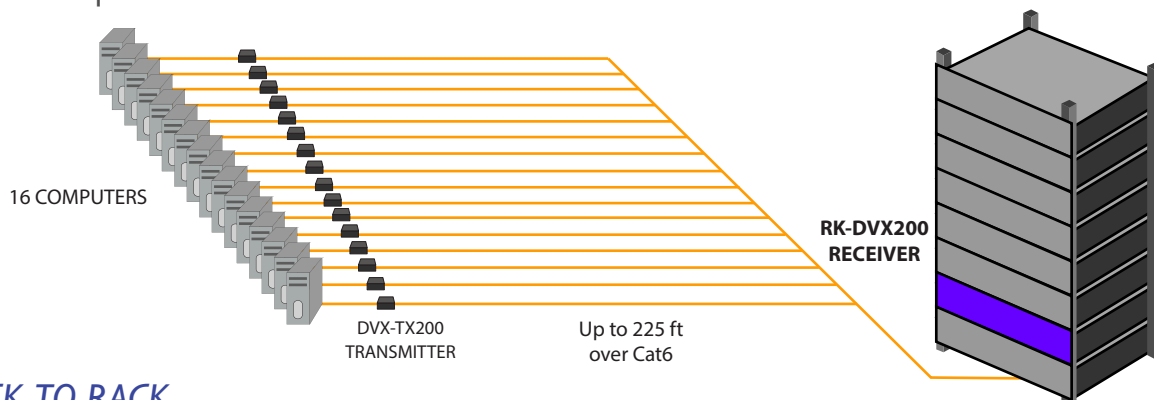
## RACK TO ENDPOINT

When using a rack of source devices, whether it be computer servers or other hardware, the RK-DVX200 allows users to run all of those components into one extension box that can accommodate between four and 16 inputs/outputs through a single rack mount extender. In this example, source signals are being routed from a network rack through the RK-DVX200 to multiple displays.



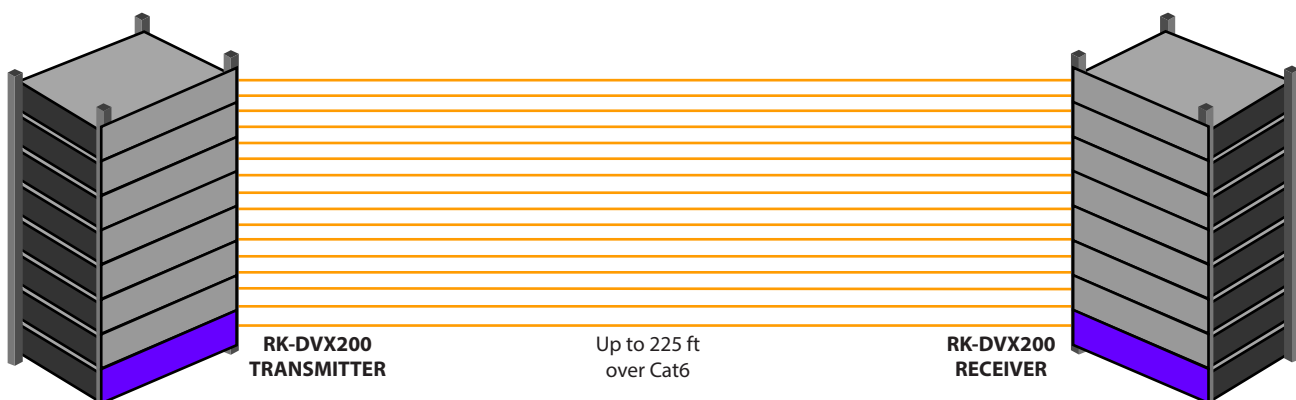
## ENDPOINT TO RACK

One of the biggest concerns of management in any company is employee productivity. At any given time, a company may be losing money due to employee abuse of Internet access. A perfect example of an end point to rack configuration would be multiple work stations connected to one server for monitoring of computer use by a single user. Of course, work station monitoring also allows for supervisors to see what employees are working on at any given time to evaluate work flow, assist in group projects and help troubleshoot workforce questions from an office or control room.



## RACK TO RACK

Networks with multiple source components in one rack may need to link them to other servers in other racks within the same building – or perhaps a different location on a campus. RK-DVX200 is configurable to allow such linking of multiple rack units without the high cost of numerous individual extenders.



## SPECIFICATIONS



RK-DVX200 Front



RK-DVX200 Rear

### VIDEO

|                       |                          |
|-----------------------|--------------------------|
| Format                | DVI-D Single Line        |
| Maximum Pixel Clock   | 165 MHz                  |
| Input Interface (TX)  | (16) DVI-D 29-pin female |
| Output Interface (RX) | (16) DVI-D 29-pin female |
| Resolution            | Up to 1920 x 1200 @60Hz  |
| DDC                   | 5 volts p-p(TTL)         |
| Input Equalization    | Automatic                |
| Input Cable Length    | Up to 20 ft.             |
| Output Cable Length   | Up to 20 ft.             |
| Extension over Cat6   | Up to 225 ft.            |

### OTHER

|                 |                                |
|-----------------|--------------------------------|
| Power           | Internal 110-240 VAC           |
| Dimensions      | 17 in W x 3.5 in H x 3.25 in D |
| Weight          | 10 lb                          |
| Operating Temp. | 0-55 °C (32-131°F)             |
| Storage Temp.   | -20-85 °C (-4-185 °F)          |
| Humidity        | Up to 95%                      |

### ORDERING INFORMATION

| Part No.     | Description                                                                     |
|--------------|---------------------------------------------------------------------------------|
| RK-DVX-TX4S  | 4-Port DVI-D Rack Transmitter over Cat6 STP. Includes: [RK-DVX-TX4 & CCPWR06]   |
| RK-DVX-TX8S  | 8-Port DVI-D Rack Transmitter over Cat6 STP. Includes: [RK-DVX-TX4 & CCPWR068]  |
| RK-DVX-TX16S | 16-Port DVI-D Rack Transmitter over Cat6 STP. Includes: [RK-DVX-TX16 & CCPWR06] |
| RK-DVX-RX4S  | 4-Port DVI-D Rack Receiver over Cat6 STP. Includes: [RK-DVX-RX4 & CCPWR06]      |
| RK-DVX-RX8S  | 8-Port DVI-D Rack Receiver over Cat6 STP. Includes: [RK-DVX-RX8 & CCPWR06]      |
| RK-DVX-RX16S | 16-Port DVI-D Rack Receiver over Cat6 STP. Includes: [RK-DVX-RX16 & CCPWR06]    |
| DVX-RX200S   | DVI-D Receiver over Cat6 STP Includes: [DVX-RX200 & (PS5VDC2A)]                 |
| DVX-TX200S   | DVI-D Transmitter over Cat6 STP Includes: [DVX-TX200 & (PS5VDC2A)]              |

Many leading companies have recognized and embraced the innovation of SmartAVI's technologies and have successfully incorporated them into their organizations. Users of SmartAVI include:



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**www.smartavi.com**

Tel: 800.AVI.2131 • 818.503.6200 • 11651  
Vanowen St. North Hollywood, CA. 91605

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