

# DELL™ 2161DS-2/4161DS REMOTE CONSOLE SWITCH



The Dell 2161DS-2/4161DS provides flexible access and control of multiple servers — across virtually any platform — using keyboard, video and mouse (KVM) commands on a local or remote workstation.

## PRODUCT BACKGROUND AND OVERVIEW

The Dell 2161DS-2/4161DS remote console switch gives today's IT server administrators the power to monitor and control servers from virtually anywhere. By simplifying IT management, the switch helps improve productivity and optimize the use of technology resources — enabling a premium return on investments for the entire company. The Dell 2161DS-2/4161DS is a multi-platform solution that connects up to 256 servers over a single IP connection. For maximum flexibility, the switch provides access for two or four simultaneous users. It also delivers both digital and analog connectivity within a single KVM switch, so administrators can choose the technology that best suits their situation.

With the Dell 2161DS-2/4161DS, IT organizations gain simple, reliable and convenient control across all major device platforms. Administrators can use commands to centrally manage servers from an intuitive user interface. The solution delivers both local and remote connectivity — protected by the latest security standards — so server management can take place virtually anywhere, anytime.

The Dell 2161DS-2/4161DS is rack-mountable for easy integration into the data center. It has 16 CAT 5/RJ-45 ports for connecting servers. Administrators can then access these servers across a 10/100/1000T Ethernet connection or directly through the switch's analog port. Video quality through the local port can be enhanced up to 1024 x 768 with an end-to-end cable length of up to 50 feet (15 meters). Remote users can achieve video resolutions of up to 1024 x 768. Up to 256 servers can be accessed with the addition of PortExtension Modules, or PEMs.

## HIGHLIGHTED FEATURES

A choice of three Server Interface Pods (SIPs) — PS/2, USB or USB2 virtual media — are available with the Dell 2161DS-2/4161DS to address a variety of connectivity server needs. A SIP replaces a bulky KVM cable by converting the keyboard, monitor and mouse signals from a server and driving them up to 50 feet (15 meters) through a single CAT 5 cable. The SIP cable draws its power from the server and has a keep-alive functionality that is designed to keep the server working properly with or without connectivity to the

Dell 2161DS-2/4161DS unit.

The switch comes with the field-proven Dell Remote Console Software (RCS), a cross-platform management application that provides a single point of access for the entire system.

This easy-to-use, Java-based software can be used locally or remotely over an IP connection. With RCS, administrators can easily configure the switch system and select different servers. In addition, the switch includes the On-Screen Configuration and Activity Reporting (OSCAR®) interface for analog control from the local workstation.

The on-board web interface provides similar management functions as the RCS, but does not require a software server or any installation. The on-board web interface is launched directly from the switch, and any servers connected to the Dell 2161DS-2/4161DS are automatically detected. Launch the viewer from the on-board web interface to establish KVM and virtual media sessions to target devices.

The Dell 2161DS-2/4161DS offers virtual media capabilities that allow viewing, moving or copying of data located on virtual media to and from any server that is connected to the switch. Virtual media can be connected directly to USB ports on the switch or the server hosting the on-board web interface browser session. You can open a virtual media session to a server from the viewer. The viewer can be opened from either the on-board web interface or RCS.

**Note:** The server must be connected to a Dell 2161DS-2/4161DS using a USB2 virtual media SIP to open a virtual media session.

The Avocent® DSView® 3 management software is a secure, browser-based, centralized enterprise management solution that allows users to remotely access, manage, monitor and control target devices through managed appliances. Using the DSView 3 management software plug-in, the Dell 2161DS-2/4161DS can manage and connect to multi-vendor servers and devices from within the DSView 3 software. Once the Dell 2161DS-2/4161DS is added in the DSView 3 heterogeneous network environment, the DSView 3 software can be used for fault management, sessions management, firmware upgrades and more.

**Note:** DSView 3 is not included with the Dell 2161DS-2/4161DS and should be purchased separately.

## **OTHER HIGHLIGHTS INCLUDE**

**Connectivity** — Features digital and analog paths

**Flexibility** — Provides access and control of multiple servers from a single screen with the RCS Java-based software

**Scalability** — Provides control for up to 256 servers over a single network connection

**Space-Efficient Design** — Occupies 0U in a Dell rack

**CAT 5 Cabling** — Reduces cable bulk



## DELL ENTERPRISE SERVICES

By utilizing the proven advantages of our direct model, including tailored service and support, low cost and a single point of accountability, Dell Services can provide you with fast, effective, affordable service offerings at any point in your IT process. By doing so, we offer a combination of bundled best practices and tailored solutions that work together to provide maximum value to you. Whether you need support, deployment, training and certification programs, or professional consulting services, individually or bundled as a total package, Dell promises to be your single point of accountability at all times.

## PROFESSIONAL SERVICES

Dell Professional Services enables Dell customers to optimize ROI by implementing complex technology through the design, development and deployment of innovative, robust and scalable business-critical solutions. With each engagement, we utilize our proven methodology and project management expertise to understand your business objectives, design plans that are flexible to adapt to your current environment and then deliver the desired results.

## DEPLOYMENT SERVICES

We bring you deployment assistance that delivers true value from beginning to end. Dell can tailor systems to our customers' specifications by customizing the hardware and software configuration during the initial system-build to reduce redundancy and time. We can manage the delivery, installation and disposal of your assets with the same eye for efficiency.

## TRAINING AND CERTIFICATION

Our approach to Training and Certification allows you to outsmart your competitors — not outspend them — with industry-standard learning across Dell hardware and industry-standard software. Dell can assist you wherever you need us, whether on-site, on-line or in a classroom setting, to help your organization take full advantage of information technology.

## ENTERPRISE SUPPORT SERVICES

Technology is a significant investment, and it pays to have a partner who can help you minimize costly downtime. Through our Premier Enterprise Support Services (PESS) offerings, Dell provides tiered support service packages with the flexibility to customize the offering to meet your specific needs across a wide range of computing environments. With proactive and reactive support options which include hardware and software support with varied response levels, account management and remote resolution, Dell provides support solutions that meet your needs, cost-effectively.

FEATURES	DESCRIPTION
<b>Mechanical</b>	<b>Height:</b> 1.75 in. (4.45cm) <b>Width:</b> 17.00 in. (43.18cm) <b>Depth:</b> 11.00 in. (27.94) <b>Weight:</b> 8 lbs. (3.6 kg) without cables
<b>Environmental</b>	<b>Operating Temp:</b> 32 to 104 degrees F (0 to 40 degrees C) <b>Storage Temp:</b> -4 to 158 degrees F (-20 to 70 degrees C)
<b>Power</b>	<b>Operating Voltage:</b> 100 to 240 VAC <b>Power Frequency:</b> 50 to 60 Hz Auto Sensing <b>Input Power:</b> 40 W Maximum
<b>Supported Hardware</b>	<b>Computers:</b> PS/2 and USB <b>Monitors:</b> VGA, SVGA (XGA, XGA II with adapter) maximum resolution <b>Local Port:</b> 1024 X 768 at 75 Hz, Digital Port Maximum: 1024 X 768 at 75 Hz
<b>Ports</b>	One local console connection via 15-pin SVGA monitor, PS/2 or USB mouse, PS/2 or USB keyboard One 10/100/1000 Ethernet network connection, provides access to KVM switch for up to four simultaneous users via TCP/IP 16 CAT 5 system connections (RJ-45 jacks) provide connectivity for systems via standard CAT5 UTP cable

<b>2161DS-2/4161DS</b>	<b>SIP</b>
<b>2161DS-2 sku# 222-1659</b> <b>Legend Code: 2161D</b>  <b>4161DS sku# 222-1664</b> <b>Legend Code: 4161DS</b>	<b>PS/2 sku# 310-1924</b> <b>USB sku# 310-5680</b> <b>USB2 VM sku# 330-0258</b>
<b>SWITCH CONSOLE</b>	<b>PEM</b>
<b>SKU# 310-9962</b>	<b>SKU# 310-1925</b>

<sup>1</sup> Results are according to mfg. specs and field use.

<sup>2</sup> For a copy of our guarantees or limited warranties, please write Dell USA L.P., Attn: Warranties, One Dell Way, Round Rock, TX 78682. For more information, visit [www.dell.com/us/en/gen/services/service\\_service\\_plans.htm](http://www.dell.com/us/en/gen/services/service_service_plans.htm).

<sup>3</sup> Service may be provided by third party. Technician will be dispatched if necessary following phone-based troubleshooting. To receive next business day service, Dell must notify the service provider before 5:00 PM (depending on service contract) customer time. Availability varies.

<sup>4</sup> Service may be provided by a third-party provider under contract with Dell. Technician will be dispatched if necessary following phone-based troubleshooting. For 7x24 service, Dell will dispatch a service technician within four hours of determining the hardware problem. For 5x10 service, Dell will dispatch a technician to the customer site within four hours of determining the hardware problem. The service technician may not arrive until the following business day if dispatched after 4:00 PM local time. Available within a 125-mile radius of over 80 metropolitan areas. Customers not located within a 125-mile radius of the stocking locations are not eligible for this offering. Not available with any other Dell systems. Available in the U.S. only.

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