Dell KVM Server Console Switch

The Dell™ KVM Server Console Switch (SCS) consolidates server management, helps conserve space in your data center, and reduces cable clutter. The KVM Server Console Switch is the first of its kind to offer the customer an upgrade path to remote server management via a hardware licensing key called the *Remote Access Key*, allowing at-the-rack access from anywhere at any time. Both server console switches (1081AD, 2161AD) are compliant with the Trade Agreement Act (TAA) at no additional cost.

Simplify your Server Management

Uninterrupted access to your data center simplifies server management and reduces downtime costs. The SCS easily enables control of multiple servers from a single console. SCS's Virtual Media support allows servers to access storage media attached to the KVM, enabling out-of-band file transfers and OS patch deployments. You can also:

- Connect devices with four USB 2.0 ports, and up to 16 Analog Rack Interface (ARI) ports to access servers.
- Manage your enterprise with two local paths (video head and Analog Console Interface (ACI)
- Quickly mount the SCS in the rack without tools thanks to the Dell™ ReadyRails™ mounting interface
- Enforce multi-factor authentication over USB and Ethernet with the Common Access Card (CAC) capability for smart cards.

With the optional *Remote Access Key* plugged into one of the four USB ports, you can:

- Provide secure encrypted remote access thru the On-Board Web Interface (OBWI) or the Remote Console Software (RCS) with any Internet browser.
- Install software and perform upgrades for your data center remotely from any authenticated IP connection
- Remotely manage multiple heterogeneous servers through a single interface

Maximum Connectivity

The Dell KVM server console switches have eight (8) or sixteen (16) ARI ports for connecting to Server Interface Pods (SIPs) attached to servers. The Dell KVM SCS is compatible with the PS/2 SIP, the USB1.1 SIP, the USB2.0 with virtual media SIP and the USB 2.0 with virtual media and CAC support SIP.

CAC support, with encryption for smart cards and password protection for local users, provides security you can depend on for your virtual media sessions. Encryption options include 128-bit SSL, AES, DES, and 3DES, and are selectable for keyboard, mouse, and video signals.

Easy to Manage

The Dell KVM SCS can manage your data center using the built-in Dell Remote Console Software (RCS) or the On-Board Web Interface (OBWI) with the *Remote Access Key* option and is compatible with Avocent® DSView® 3 management software. OS patches and upgrades can be made from anywhere using virtual media.

RCS is a cross-platform management application that allows you to view and control the Dell KVM and all of its attached servers from a central console interface.

With the optional *Remote Access Key*, the OBWI launches directly from the switch using a web browser, and any servers connected to the SCS are automatically detected. Flash upgrades can be initiated through the OBWI to ensure your SCS and SIPs are always running the most current firmware version available.

Flexible and Scalable

The Dell KVM SCS solution can scale as your business grows, managing up to 256 servers when tiered with additional switches. SCS can provide seamless integration with at-the-rack access anytime and anywhere when combined with the *Remote Access Key* option.

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Peace of Mind

Tool-less installation for 1U rack mounting is enabled with the Dell ReadyRails™ interface. The KVM SCS can mount in the front or back of the rack and comes with a blanking panel. A 0U mounting bracket is also provided for flexibility in installing the switch into racks.

The entire portfolio of Dell digital and analog KVMs supports Dell and third-party servers and serial devices and includes the technical support and warranty service you want.

	4322DS	2162DS	1082DS	2161AD	1081AD
Form Factor	1U or 0U rack mount				
Dimensions	1.72 x 17.00 x 9.20 in. (Height x Width x Depth)				
Weight	7.6 lb (3.4 kg)	7.0 lb (3.2 kg)	6.6 lb (3.0 kg)	7.0 lb (3.2 kg)	6.6 lb (3.0 kg)
Device Connectors	32 ARI ports for server or serial devices 2 ports for power distribution 4 USB 2.0 ports	16 ARI ports for server or serial devices 2 ports for power distribution units 4 USB 2.0 ports	8 ARI ports for server or serial devices 2 ports for power distribution units 4 USB 2.0 ports	16 ARI ports for server devices 4 USB 2.0 ports	8 ARI ports for server devices 4 USB 2.0 ports
Remote Access	Up to 4 remote users 2 Gigabit Ethernet ports 1 modem connection	Up to 2 remote users 2 Gigabit Ethernet ports 1 modem connection	1 remote user 2 Gigabit Ethernet ports 1 modem connection	1 remote user w/ Remote Access Key option 10/100 Mbps Ethernet port	
Local Access	1 local video port with USB for keyboard/mouse 1 ACI port for tiering to another Dell KVM				
VM/CAC Support	Virtual Media support over USB Common Access Card (CAC) capability for smart cards 128-bit SSL, AES, DES, and 3DES encryption				
Features Include	True Serial support over Telnet/SSH Native LDAP support for Microsoft® Active Directory® Dual-stack IPv4 and IPv6 for simultaneous access Flash-upgradeable firmware for RCS and SIPs			Agentless control and access for 1 remote user w/ the Remote Access Key Single-stack IPv4 or IPv6 access Flash-upgradeable firmware for SCS and SIPs	
Video Support	Analog VGA, SVGA, and XGA 16:10 widescreen, up to 1680 x 1050 4:3 standard, up to 1600 x 1200				
Management Software	Integrated Remote Console Switch software for local access On-board Web Interface (OBWI) via browser for remote access Compatible with Avocent® DSView® 3 management software			OSCAR™ On-Screen Display for local access OBWI w/ Remote Access Key option Compatible with Avocent® DSView® 3 management software w/ Remote Access Key option	
Rack Support	ReadyRails™ static rails for tool-less 1U mounting in 4-post racks with square or unthreaded round holes or tooled mounting in 4-post threaded and 2-post (Telco) racks Also comes with 0U mounting bracket for use in Dell racks				
Power Supply	2 power supply units	2 power supply units	1 power supply unit	1 power supply unit	1 power supply unit
Power Supply Specifications	Connector: IEC C14 Type: Internal Power: 18W Heat dissipation: 47 BTU/hr AC input range: 100 - 240 VAC AC frequency: 50/60 Hz auto-sensing AC input current rating: 1.25 A AC input power (maximum): 40W			Connector: IEC C14 Type: Internal Power: 18W Heat dissipation: 47 BTU/hr AC input range: 100 - 240 VAC AC frequency: 50/60 Hz auto-sensing AC input current rating: 5 A AC input power (maximum): 20W	
Environmental	Operating: 32 to 122 degrees Fahrenheit (0 to 50 degrees Celsius) Non-operating: -4 to 158 degrees Fahrenheit (-20 to 70 degrees Celsius) Airflow is from non-port side (Front) to port side (Back)				
Supported SIPs	Multi-platform support for PS/2, USB, USB 2.0 and serial devices Dell PS/2, USB, USB2-VM, USB2-VM+CAC, and Serial SIPs Avocent PS/2, PS2M, USB, Sun, USB2, VMC, and Serial modules			Multi-platform support: PS/2, USB, USB 2.0 devices Dell PS/2, USB, USB2-VM, USB2-VM+CAC SIPs Avocent PS/2, PS2M, USB, Sun, USB2, VMC modules	

Dell Services

Dell Services can help reduce IT complexity, lower costs, and eliminate inefficiencies by making IT and business solutions work harder for you. The Dell Services team takes a holistic view of your needs and designs solutions for your environment and business objectives while leveraging proven delivery methods, local talent, and in-depth domain knowledge for the lowest TCO.

Local and remote control for your enterprise at Dell.com/kvm