

# Features and Benefits

## Dominion® KSX II



Features	Benefits
<b>Flexibility and Control</b>	
<i>KVM-over-IP, Serial Console and Remote Power Control</i>	Remotely access servers and networking equipment in your branch and remote offices by combining KVM-over-IP, serial and remote power control in one secure appliance. Access hundreds or thousands of remote devices when integrated with Raritan's CommandCenter® Secure Gateway (CC-SG).
<i>Centralized Access for Remote and Branch Offices</i>	If you have geographically dispersed equipment at branch and remote offices, the KSX II enables you to reduce travel costs, increase IT productivity, decrease mean time to repair and achieve higher service quality.
<i>Manage Racks of KVM and Serially Managed Devices</i>	The Dominion KSX II is also ideal for labs, computer rooms and data centers with racks containing both serially – and KVM – controlled devices.
<i>Two Secure Hardware Appliance Models</i>	<p>The Dominion KSX II is available in two secure hardware appliances.</p> <p>The DKSX-144 features four KVM-over-IP ports, four serial ports, two power control ports and a local port for direct access.</p> <p>The DKSX-188 features eight KVM-over-IP ports, eight serial ports, two power control ports and a local port for direct access.</p> <p>Includes a built-in modem for emergency access and dual LAN ports for reliability.</p>
<i>BIOS- Level KVM-over-IP Access</i>	KSX II provides virtually all of the KVM-over-IP features of the award winning Dominion KX II as of Release 2.5. With the Dominion KX II as its foundation, the KSX II enables new levels of KVM-over-IP performance, reliability, usability, compatibility and security. See the Dominion KX II Features and Benefits for the complete features list. Note that the tiering (cascading) feature is not yet available for the KSX II.
<i>Secure Console Server Access</i>	The KSX II enables true serial access of serially-controlled equipment including networking equipment, headless servers (UNIX®, Linux®, Sun®) and other devices. Providing many serial features of the Dominion SX, the KSX II does not require expensive serial dongles, like competing solutions.

## Dominion KSX II - Features and Benefits

<i>Remote Power Control</i>	You can remotely power up, down or cycle devices connected to optional Dominion PX™ power distribution units. An administrator can power cycle a hung or crashed server with a click of the mouse. The KSX II includes two power control ports that can be connected to two Raritan PX strips.
<i>Virtual Media</i>	Mount remote drives/media on servers in remote offices to support software installation, remote booting and diagnostics. Using virtual media, you can even remotely re-image a server in a branch office.  The Dominion KSX II supports a wide variety of media options, including CD/DVD/Floppy drives, hard drives, USB drives, and ISO image files.
<b>Availability</b>	
<i>Dual Gigabit Ethernet Ports with Failover</i>	Provides high availability with dual gigabit Ethernet ports for redundancy. Should one Ethernet switch or interface card fail, Dominion KSX II will automatically failover to the other port and continue operating.
<i>Built in Modem with Dial-back</i>	The Dominion KSX II has a built-in modem for out-of-band access if the primary network is unavailable. As an added security benefit, dial-back authentication is supported.
<b>Security</b>	
<i>Validated FIPS 140-2 Cryptographic Module for KVM and Serial Sessions</i>	For government, military and other high security applications, the Dominion KSX II is the first combo digital KVM and serial switch with a validated FIPS 140-2 Cryptographic Module for enhanced encryption. Modules tested and validated as conforming FIPS 140-2 are accepted by the federal agencies of the U.S. and Canada for the protection of sensitive information. FIPS 140-2 encryption can be applied to both KVM and serial sessions.
<i>Smart Card and CAC Authentication</i>	The Dominion KSX II supports smart card and DoD Common Access Card (CAC) authentication at the rack, stand-alone over IP and through CC-SG. Meets U.S. Government HSPD-12, PIV and CAC directives and ISO 7816, PC/SC and CCID standards. All Dominion KSX II models support smart cards using the D2CIM-DVUSB CIMs.
<i>256-Bit AES Encryption</i>	The Dominion KSX II uses Advanced Encryption Standard (AES) encryption for added security. AES is a U.S. government–approved cryptographic algorithm that is recommended by the National Institute of Standards and Technology (NIST) in FIPS 197.
<i>Configurable Strong Password Checking</i>	The Dominion KSX II has administrator-configurable strong password checking to ensure that user created passwords meet corporate standards and are resistant to brute force hacking. The administrator can also enforce password aging and lockout after failed attempts.
<i>Group and Port-level Permissions</i>	Administrators can ensure that only the right people access remote IT equipment by setting permissions down to the port level. Administrators can also grant or deny virtual media and power cycling privileges on a port and user basis.
<i>RADIUS and LDAP and Active Directory® Authentication</i>	Dominion KSX II integrates with industry-standard directory servers, such as Microsoft's Active Directory, using either the LDAP or RADIUS protocols. This allows Dominion KSX II to use pre-existing username/password databases for security.



## Dominion KSX II - Features and Benefits

<i>Configurable Security Banner</i>	For government, military and other security-conscious customers requiring a security message before user login, the KSX II can display a user-configurable banner message and require acceptance before user login.
<i>Upload Customer-Provided SSL Certificates</i>	You can upload digital certificates to the Dominion KSX II (self-signed or certificate authority provided) for enhanced authentication and secure communication.
<b>Advanced KVM-over-IP Features</b>	
<i>High Performance, Next-Generation Video Hardware</i>	Dominion KSX II's KVM-over-IP engine uses Raritan's next-generation technology, providing virtual at-the-rack performance. Next-generation features include ultra-fast screen refresh, 1920x1080 high-definition (HD) remote video resolution, advanced color calibration and per server video optimization.
<i>Multiplatform CIMs Support Analog and Digital Video</i>	<p>Dominion KSX II supports multiplatform CIMs to connect to PS/2, USB, Sun and serially controlled servers.</p> <p>Analog VGA video and new DVI, HDMI and DisplayPort digital video standards are supported.</p> <p>Dominion CIMs operate at distances of up to 150 feet from the Dominion KSX II switch, depending on server resolution.</p>
<i>Mobile KVM Access for iPhone and iPad</i>	Users can now access and control servers connected to the Dominion KSX II via their Apple iPhones and iPads. This provides emergency 24/7 out-of-hours access, as well as convenient everyday access for iPads enthusiasts. CC-SG Release 5.2 or later is required for this capability.
<i>Blade Server Access and Control</i>	<p>Dominion KSX II supports popular blade server models from HP, IBM® and Dell®. It provides simple, automated and secure KVM-over-IP access (1) at the rack, (2) remotely over IP, (3) via CommandCenter Secure Gateway and (4) by modem. Blade servers are displayed by chassis with simple one-click access.</p> <p>The Dominion KSX II's blade features are available to SMB customers with no management system required. For enterprise customers, seamless blade server integration with CommandCenter Secure Gateway is available.</p>
<i>Dual Stack IP Networking with IPv6</i>	The Dominion KSX II provides dual stack IP networking with simultaneous support of IPv4 and IPv6.
<i>Secure Virtual Media with 128/256-Bit Encryption</i>	Virtual media sessions are secured using 128- or 256-bit AES. Also available is 128-bit RC4 encryption.
<i>New Dual-USB Virtual Media CIM and USB Profiles</i>	The dual-USB virtual media CIMs (D2CIM-DVUSB) and USB profile feature enable expanded BIOS use of virtual media drives to the broadest range of servers and BIOS versions.
<b>Ease of Use</b>	
<i>Next Generation Common User Interface</i>	The Dominion KSX II has a next generation, browser-based user interface for enhanced usability and productivity. This interface is common across the local port, remote access, management software as well as other Raritan products. This reduces training time and increases productivity.



## Dominion KSX II - Features and Benefits

<i>Absolute Mouse Synchronization™</i>	The Absolute Mouse Synchronization feature is the ultimate mouse synchronization solution. For servers with a compatible USB mouse port, there is no need to adjust the mouse settings on the target server. This reduces installation time and enhances the Dominion KSX II's plug-and-play nature. In addition, the remote and target server mouse pointers never go out of synchronization. This feature is enabled by the D2CIM-VUSB and D2CIM-DVUSB virtual media CIMs.
<i>High Definition (HD) Remote Video Resolution - 1920x1080</i>	The Dominion KSX II supports full high-definition (HD) remote video resolution (1080p). In addition, popular widescreen formats are supported including 1600x1200, 1680x1050 and 1440x900, so you can work with today's higher resolution monitors. VGA, DVI, HDMI and DisplayPort Video are supported.
<i>Full-Screen Video Display</i>	With the Dominion KSX II's full-screen video display, you appear to be directly connected to the target server. You can view the full video display from the target server without window borders or toolbars. A hidden toolbar of KVM client commands is available.
<i>Automated and Manual Bandwidth Settings</i>	Video performance can be configured to match the available network bandwidth. With high-speed LAN access, more bandwidth is available and higher quality video information can be sent, resulting in better performance. When accessing via a limited bandwidth connection, Dominion KSX II can be configured to the limited bandwidth available.
<i>Port Scanning and Thumbnail Views</i>	View selected servers as a slide show and/or real-time thumbnail views. The user can select a list of servers, set the scan interval and quickly access a given server. Works remotely and locally.
<i>PC Share Mode</i>	Up to eight users can connect and remotely access each KVM-connected server. This feature is very useful for administrator collaboration for teamed troubleshooting.
<i>Asian Languages – Japanese and Simplified/Traditional Chinese</i>	The Dominion KSX II's remote HTML User Interface and the KVM Clients now support the Japanese, Simplified Chinese and Traditional Chinese languages. This is available stand-alone as well as through CC-SG.
<b>Serial Console Capabilities</b>	
<i>True Serial Access</i>	The Dominion KSX II provides true, remote serial console access to either four or eight serial devices, without the use of expensive serial dongles. Note that simultaneous access to four or eight serial ports is provided, with no blocking. In addition multiple users can connect simultaneously to a serial device.
<i>Multiple Serial Clients</i>	Access to serial devices is provided via the Raritan Serial Console, SSH or Telnet clients.
<i>Key Logging and History</i>	The Dominion KSX II provides a true serial connection to network devices and serially managed equipment. This includes the ability to log serial sessions and retrieve the session history.
<i>Copy and Paste</i>	You can copy and paste session information between different devices.

## Dominion KSX II - Features and Benefits

<i>Keyword Monitoring and Alerting</i>	You can define, for each port, a set of keywords (port triggers). The KSX II will scan the data coming from the port, and if a keyword is encountered, it will log the event and send alerts via SNMP. This allows for monitoring and alerting of problems with remote devices even when you are not connected.
<i>Session Disconnection Commands</i>	Once you have timed out for inactivity, a user-defined logoff command is sent to the serial device. Improved security of user sessions results, as the next user that connects to the port will need to log in to the target with their own credentials.
<i>Secure Chat Instant Messaging</i>	Allows encrypted instant messaging for online collaboration with other authorized browser users and maximizes the effectiveness of a distributed workforce. Reduces time to resolve problems and allows multi-person troubleshooting.
<i>TCP Port Addressing for Telnet and SSH</i>	Direct port addressing to specific devices via IP address and/or TCP port number for both Telnet and SSH.
<b>Manageability</b>	
<i>Remote and Local Management and Administration</i>	You can perform all management, administration and configuration operations, using a simple graphical user interface, remotely from the convenience of your desktop or while in the data center.
<i>Centralized Management with Raritan CommandCenter Secure Gateway</i>	Like the rest of the Dominion series, Dominion KSX II features CommandCenter Secure Gateway integration, allowing enterprise users to consolidate all Dominion devices into a single logical system, accessible from a single IP address and under a single management interface.
<i>Remote Power Control</i>	The Dominion KSX II has two dedicated power control ports for Raritan PDUs like the Dominion PX. This enables you to remotely power cycle IT devices from the KSX II management interface.
<i>SNMP Management and Syslog</i>	The Dominion KSX II SNMP agent distributes SNMP traps for important system events to SNMP management systems. SNMP traps are fully configurable by the administrator. SNMP v2 and v3 supported. Syslog is also supported.
<i>Plug-and-Play Appliance Offers Quick and Easy Setup</i>	Dominion KSX II is a completely self-contained system (i.e. an appliance). All KSX II features, including authentication and Web access are built into the unit and do not require the use of an additional server.
<i>Command Line Interface</i>	A comprehensive Command Line Interface is available via SSH, Telnet or the local serial port. With the CLI, the user can configure, maintain and troubleshoot the KSX II, as well as connect to serial devices.