

Features and Benefits

DOMINION KX IV-101 OVERVIEW

Fourth-Generation High Performance Hardware Architecture

Featuring the industry's best and most flexible KVM-over-IP performance, the single-port, Dominion KX IV-101 provides a new level of Ultra HD performance for KVM-over-IP (and serial) remote management and control.

Supporting up to 4K video resolution, the KX IV-101 has a new, all-digital architecture for ultra-HD video performance, high video quality, and virtual media transfers up to 3 times faster than the Dominion KX III. It has a new, productive, web-based, HTML5 user interface, available on PC, laptops, and smartphones.

Flexible for Multiple Industries & Applications

KX IV-101 is perfect for the most demanding broadcast and control room applications, as well as remote IT administration, lab management, and more.

As a single-port device, it is perfect for colo's, remote offices, facilities and edge applications.

With Raritan's DSAM modules, you can remotely manage 2, 4, 6, or 8 serial devices.

With the new "Virtual Power Button" feature, users can remotely power on/off computers, without the use of a switched PDU.

Single-Port, Unblocked, BIOS-level Access and Control

More powerful and flexible than any other KVM-over-IP switch, the KX IV-101 supports unblocked, Java-free, anytime / anywhere, BI-OS-level remote access of servers, PC's and workstations.

The KX IV connects to a single computer, providing flexible, unblocked access to multiple users via laptop, PC, smartphone or Dominion User Station



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Ultra-High Performance Video Resolution, Speed and Quality!

The KX IV-101's fourth generation video processing engine supports access to servers with 4K video resolution (3840x2160), up to 30 frames per second with 4:2:2 color.

It also supports HD resolutions up to 1920x1080 and 1920x1200 at up to 60 frames per second with high quality 4:4:4 color.

Popular Dominion Features and Compatibility

The KX IV-101 supports many of the popular Dominion features such as: BIOS-level access, virtual media, absolute mouse synchronization, LDAP/Radius/AD authentication, AES encryption, and support for up to 8 simultaneous sessions. Utilize the KX IV with CommandCenter, the other Dominion products, DSAM modules, and the KX III or IV User Stations.

Native HDMI[®] device supporting Multiple Video Formats

The KX IV-101 is a native HDM[®]I device with available cable adapters for VGA, DVI, DisplayPort, Mini-DisplayPort & USB-C.

Dominion KX III User Station

KX IV-101 works with the KX III User Station, a self-contained user appliance that provides users with high-performance IP access to remote servers. Connecting via TCP/IP to the Dominion KX IV-101 switches, the User Station has blazing video performance, supporting two 1080p (1920x1080) streaming video sessions at up to 30 framesper-second with as little as 50 millisecond latency. Use standalone or with Raritan's CommandCenter Secure Gateway.

New High Performance KX IV User Station

For customers needing the ultimate in performance, a new, more powerful KX IV User Station is available. It has a more powerful CPU, memory, supports up to 3 monitors, and is optimized for 4K and high performance 1080p60 applications.



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Powerful Next Generation Hardware

The KX IV-101 has an all-new digital architecture with the following hardware features: HDMI[®] and USB-B port for server connection, pass-through local port (HDMI[®] & USB), gigabit Ethernet port, 5-pin terminal block for external device control, USB & serial ports for local administration, power adapter with locking plug and factory reset button. An L bracket is included for zero-U mounting. A three-unit, 1U bracket is available for purchase.

Pass-through Digital Local Port

The Dominion KX IV-101 has a pass-through, digital local port providing fast, at-the-rack access via HDMI[®] and USB for high performance, local server access.

KVM-OVER-IP AND SERIAL CONNECTIVITY

Single-Port KVM-over-IP Switch	Dominion KX IV-101 provides unblocked, KVM-over-IP access to a single PC, workstation or server. Through the PC Share feature, up to 8 users can simultaneously connect, view and share control of the target computer system. This is achieved while allowing full, un- blocked local port access.
Flexible, Multi-Purpose, IP-Based Solution	The KX IV-101 has user-configurable video performance (quality vs bandwidth) to operate over LAN, WAN and even the Internet for emergency, out-of-hours IT support. As a flexible IP solution, it is accessible via User Station, Laptop, PC and SmartPhone supporting users, managers, engineering and IT. Java-free KVM access is avail- able on Windows, Linux and Mac.



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Manage up to 8 Serial Devices	With Raritan's new Dominion Serial Access Modules (DSAM), users can manage up to 8 serial devices connected to a KX IV-101 switch. The two and four port DSAM modules provide true, Java-free serial access to devices such as LAN switches, routers and Linux/Unix servers. DSAM's are perfect for remote and branch offices where both KVM and serial access is needed.
Flexible, Java-free KVM over IP Access	Dominion KX IV-101 has the industry's highest performing and most flexible KVM-over-IP technology. Users can access Dominion KX IV-101 from anywhere on the network (LAN, WAN, and Internet), allowing administrators to troubleshoot, reconfigure, reboot and even power cycle servers remotely.
	The KX IV-101 has two Java-free KVM Clients: (1) the Windows-based Active KVM Client (AKC) for Windows, and (2) the HTML5 KVM Cli- ent (HKC) for Java-free KVM-over-IP access on Linux, iOS, and Mac. HKC now supports virtual media and audio output.
Apple [®] iPhone [®] and iPad [®] Mobile Access	Users can remotely access and control servers through Apple iPhone and iPad devices, directly or through CC-SG with the same level of security that they now enjoy via their laptops.
Dual Stack IP Networking — IPv4 and IPv6	The Dominion KX IV-101 provides dual stack IP networking with simultaneous support of IPv4 and IPv6.

VIRTUAL MEDIA AND AUDIO FEATURES

Virtual Media 15X Faster

The benefits of virtual media — mounting of remote drives/media on the target server to support software installation, remote booting and diagnostics — is of course available. With the KX IV-101's fourth-generation architecture, virtual media speed is up to 15 times faster than our previous generation!



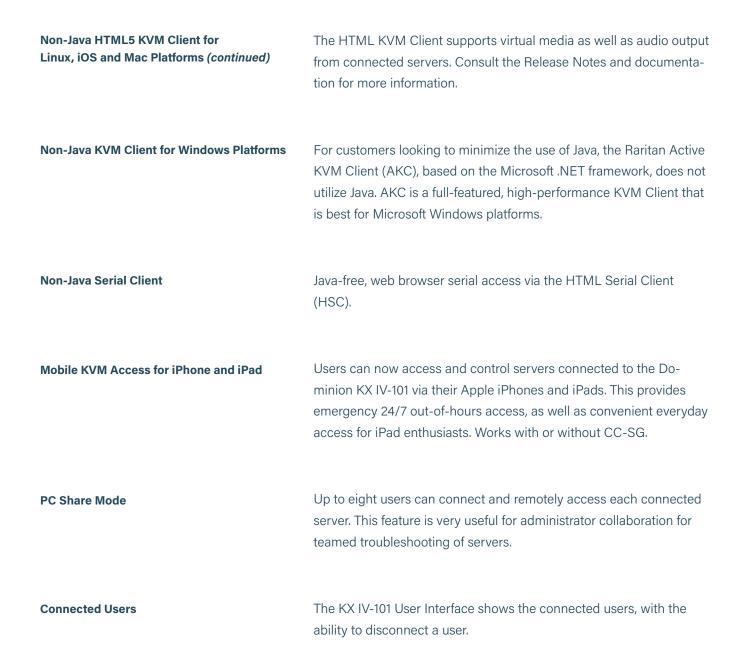
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Wide Variety of Supported Virtual Media Drives and Devices	Each Dominion KX IV-101 comes equipped with virtual media to en- able remote tasks using CD, DVD, USB devices and ISO images.
Digital Audio over HDMI®	The KX IV supports digital stereo audio via HDMI®, supporting play- back from the target server. Audio can be automatically connected for KVM-over-IP sessions.
Secure Virtual Media with 128/256-Bit Encryption	Virtual media sessions can be secured using 128- or 256-bit AES encryption.
USB Connection Settings	These provide basic and advanced USB settings to support the broadest range of virtual media, servers and BIOS versions on a wide variety of PCs, servers and workstations.

JAVA-FREE KVM CLIENT ACCESS AND CONTROL

Java-free KVM Access — Anytime, Anywhere	In addition to User Station access, the Dominion KX IV-101 provides KVM and serial access through the industry's broadest and most flex- ible range of operating systems, platforms and browsers. Three KVM Clients are available for users to use.
	Java-free access for is available for Windows, Linux & Mac desktops.
Next-Generation Common User Interface	The Dominion KX IV-101 has a new, next-generation, browser-based user interface for enhanced usability and productivity.
Non-Java HTML5 KVM Client for Linux, iOS and Mac Platforms	A new HTML KVM Client (HKC) is available for Linux, iOS and Mac platforms. For customers looking to minimize their use of Java, this HTML-based KVM Client runs in the browser and does not utilize Java or .NET.







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ULTRA HD VIDEO PERFORMANCE

Ultra High Definition Video Resolutions up to 4K (3840x2160)	The Dominion KX IV-101 supports both standard and 4K ultra-HD re- mote video resolutions. Formats beyond standard HD are supported, including 2560x1440 (1440p) and 2560x1600 (1600p). Standard HD resolutions are also supported: 1920x1200, 1600x1200, 1680x1050 and 1440x900.
Super-Fast Video Performance 30 to 60 Frames Per Second	The KX IV-101 supports fast access to servers with 4K video resolu- tion (3840x2160), up to 30 frames per second with 4:2:2 color. It also supports HD resolutions up to 1920x1080 and 1920x1200 at a blazing 60 frames per second with high quality 4:4:4 color.
24-Bit Color with up to 4:4:4 Subsampling	Dominion KX IV-101's 24-bit color support enables high video quali- ty. Three high-quality color subsampling modes are provided: 4:2:0, 4:2:2 and 4:4:4. Multiple color modes, including full-color for high quality, with reduced color and gray, available to support lower band- width connections.
Flexible Performance & Bandwidth Settings for LAN, WAN and Internet	Video performance and bandwidth can be configured to match application needs and available bandwidth. The Connection Proper- ties panel allows users to choose between the best video quality or least bandwidth. Pick the highest quality when on a high bandwidth LAN or the least bandwidth when operating over a lower bandwidth connection, i.e. the Internet for emergency, out-of-hours access. The Connection Information panel provides useful information on video resolution, color mode and bandwidth usage.



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Full-Screen Video Display	With the Dominion KX IV-101's full-screen video display, users appear to be directly connected to the target server. The user views the full video display from the target server without window borders or toolbars. With the new "pop-up" menu bar, users can run KVM client functions while in full-screen mode.
Thumbnail View of Connected Server	The KX IV-101 User Interface shows a thumbnail view of the target server, even before the user establishes a KVM session.
Flexible Video Scaling	In many instances, the user would like to "scale," i.e., stretch or com- press the target server's video display to fit the display window on the client. With the Dominion KX IV-101's flexible scaling, the user is not restricted to fixed-size windows.

MOUSE AND KEYBOARD FEATURES

Absolute Mouse Synchronization	The Absolute Mouse Synchronization feature is the ultimate mouse synchronization solution. For Windows and Mac [®] 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 KX IV-101's plug-and-play nature. In addition, the remote and target server mouse pointers never go out of synchronization.
Intelligent Mouse Synchronization™	Most KVM switches require the customer to manually adjust the mouse motion and mouse acceleration settings for all connected tar- get servers for each KVM user. With the Intelligent Mouse option, no such manual configuration is required for many servers. The system can automatically adjust to the server's mouse settings.



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Speedy Single Mouse Mode	Many Dominion KX IV-101 customers prefer a dual-mouse configu- ration; however, the KX IV-101's single mouse mode provides speedy performance and does not require server changes for any type of server or OS.
SECURITY FEATURES	
Strong AES Encryption	The Dominion KX IV-101 utilizes the Advanced Encryption Standard (AES) encryption for added security. 128 and 256 bit AES encryption is available. Older, weaker encryption methods are not supported.
	AES is a U.S. government-approved cryptographic algorithm that is recommended by the National Institute of Standards and Technology (NIST) in the FIPS Standard 197.
Video and Virtual Media Encryption	Dominion KX IV-101 securely encrypts the video stream, keyboard and mouse data, and virtual media. Encryption can be disabled for faster video performance.
RADIUS, LDAP and Active Directory Authentication	Dominion KX IV-101 integrates with industry-standard directory servers, such as Microsoft Active Directory, using either the LDAP or RADIUS protocols. This allows Dominion KX IV-101 to use pre-existing username/password databases for security.
Configurable Strong Password Checking	The Dominion KX IV-101 has administrator-configurable, strong pass- word checking to ensure that user-created passwords meet corporate and/or government standards.
Two Factor Authentication	RSA SecureID is supported via RADIUS for two-factor authentication security to log into the KX II.



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Secure TLS Security	SSLv1, SSLv2 SSLv3 and the older TLS versions are disabled for secu- rity reasons. The secure TLS 1.3 protocol is used.
Configurable Security Banner	For government, military and other security-conscious customers requiring a security message before user login, the KX IV-101 can display a user-configurable banner message and require acceptance before user login.
Upload Customer-Provided SSL Certificates	Customers can upload to the Dominion KX IV-101 digital certificates (self-signed or certificate authority provided) for enhanced authen- tication and secure communication. Raritan recommends this for added security and to reduce browser warning messages.
Local Authentication with Users, Groups and Permissions	In addition to external authentication, the Dominion KX IV-101 supports local authentication. Administrators can define users and groups with customizable administration and port access permissions.

VIRTUAL POWER BUTTON & EXTERNAL DEVICE CONTROL

Virtual Power Button

With the "Virtual Power Button" feature, users can remotely power on or off a computer device — without the use of an outlet-switched PDU! This uses the KX IV-101's 5 pin Terminal Block and the External Device Control features.

Physically wire the Terminal Block Output pins to the power or reset pins on the computer motherboard. You can then use the KX's webbased user interface to remotely power on/off a computer system.



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External Device Control

The KX IV-101 has a unique new feature to control and react to external devices. There are two types of device control: input and output. Input control can control local and remote access of the KX IV-101. For example, for privacy or safety reasons, an external switch can be used to disable remote access if a local user is working on the connected computer. Output control can be used to power on or off an external device such as a light, buzzer or computer. This enables a remote user to power on, off or cycle a computer device, for example, if the system hangs or becomes unresponsive.

This feature must be enabled on the KX IV-101 web-based user interface. Input and output can be separately configured and enabled. Input options for remote and local are: full access, video only or no access. Output options are to turn the external device on/off or to blink an external device (warning light or buzzer) for an interval. On the KVM Clients, the user can also remotely turn external devices on or off.

Terminal Block

The KX IV-101 has a 5-pin terminal block for external device control.

There is a 3-pin output relay control to turn on/off a DC powered device such as system/computer, buzzer or light. There are common, normally open and closed pins for different device architectures.

Two input pins can detect an open or closed circuit. This can be used to enable/disable the KX's local and remote access.

Consult the external device's documentation to determine how to physically connect to it.



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MANAGEMENT FEATURES	
Remote Management and Administration	Administrators can perform all management, administration and configuration operations remotely via a simple web-based, graphical user interface. This is available via PC, laptop, smartphone/tablet and via the Apple KVM View App.
Raritan's CommandCenter Integration	Like the rest of the Dominion series, Dominion KX IV-101 features complete CC-SG integration, allowing users to consolidate all Domin- ion devices into a single logical system, accessible from a single IP address and under a single remote management interface.
	CommandCenter login and server access is now available from the Dominion KX User Stations. Login to the User Station with your CommandCenter credentials (login name and password) and access servers you are authorized for.
SmartPhone Application (App) for Local Access to the KX IV-101	With the KX IV-101 App, administrators can connect directly from their Apple smartphone or table to the KX IV-101 via USB cable. This is convenient to install and configure the KX IV-101.
Dominion KX Software Development Kit and API	An optional Dominion KX Software Development Kit (SDK) and Application Programming Interface (API) is available for customers wanting integration with their internal systems, customized KVM- over-IP access or want an automated KVM Client session. The KX SDK/API is available for purchase under separate agreement to approved customers.



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Event Logging via SNMP, Syslog and Email	System and user events are logged and recorded in a log file on each device. For permanent logging, the Dominion KX IV can send SNMP TRAPs for these events to SNMP management system(s). SNMP TRAPs are fully configurable by the administrator. SNMP v2 and v3 supported. Syslog logging and email notifications are also available.
Consolidated Device Information Page	A consolidated Device Information Page provides status, firmware version and networking information on the KX IV-101.
Dominion KX III Compatibility	Customers who have purchased Raritan's third-generation Dominion KX III switches can continue to use these switches together with the Dominion KX IV-101. CC-SG, KX User Stations and Raritan's KVM Cli- ents support seamless access and control of target servers connect- ed to the Dominion KX III and Dominion KX IV-101 switches.

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