

Dominion® KX II



Dominion KX II Series

Enterprise-class KVM-over-IP switch with integrated local and secure multiplatform remote access

KX2-864

- 64 KVM ports
- 1 local + extended local port
- 8 remote users over the network

KX2-832

- 32 KVM ports
- 1 local + extended local port
- 8 remote users over the network

KX2-464

- 64 KVM ports
- 1 user at the rack
- 4 remote users over the network

KX2-432

- 32 KVM ports
- 1 user at the rack
- 4 remote users over the network

KX2-416

- 16 KVM ports
- 1 user at the rack
- 4 remote users over the network

KX2-232

- 32 KVM ports
- 1 user at the rack
- 2 remote users over the network

KX2-216

- 16 KVM ports
- 1 user at the rack
- 2 remote users over the network

KX2-132

- 32 KVM ports
- 1 user at the rack
- 1 remote user over the network

KX2-116

- 16 KVM ports
- 1 user at the rack
- 1 remote user over the network

KX2-108

- 8 KVM ports
- 1 user at the rack
- 1 remote user over the network

The most comprehensive KVM-over-IP solution in the industry

From small racks, test labs and branch offices to the largest enterprise deployments, it's KVM over IP the way it should be.

The Dominion KX II is an enterprise-class, secure, KVM-over-IP switch that provides 1, 2, 4 or 8 users remote BIOS-level control of 8 to 64 servers. It raises the bar in KVM-over-IP technology with standard features such as Virtual Media, Absolute Mouse Synchronization™ and dual power – available on all models – that maximize performance, security, reliability and versatility.

Raritan's Universal Virtual Media lets administrators perform tasks such as installing software, transferring files and backing up data. A user can mount drives and media from the user's desktop to servers in the data center during a KVM session.

The Dominion KX II also features Absolute Mouse Synchronization, which reduces installation time and sets a new standard for mouse synchronization. Combined with high-quality, 1600 x 1200 video resolution, Virtual KVM Desktop™ and Virtual Media features, it provides the industry's most flexible and responsive remote user experience available.

Our Virtual KVM Desktop allows users to scale a target server's display to any size, from thumbnails to full-screen video. Transparent keyboard handling sends virtually every keystroke combination straight to the server, for a user experience that's nearly indistinguishable from an at-the-rack connection. Plus, it provides an intuitive user experience – whether the target servers are being accessed locally or remotely – through a common browser-based user interface. This interface supports the industry's widest range of operating systems and browsers.

And with dual power supplies and dual gigabit Ethernet ports, both with automatic failover, the Dominion KX II is the most reliable digital KVM switch in the industry.

Architecture

The Dominion KX II consists of the KVM-over-IP switch and Computer Interface Modules (CIMs).

- ▶ Each CIM connects to individual and blade server's KVM ports and converts video signals for transmission of up to 150 feet over UTP (Cat5/5e/6) cabling. CIMs also provide keep-alive keyboard/mouse emulation.
- ▶ Dominion KX II provides KVM-over-IP remote access, local at-the-rack access and optional modem access.
- ▶ Remote users easily access Dominion KX II from Windows®, Linux®, Sun™ or Mac® desktops via a wide range of Web browsers. Raritan's remote client software is automatically downloaded via Web browser.
- ▶ Dominion KX II provides its entire feature set out of the box: Virtual Media, AES encryption, dual power supplies and dual gigabit Ethernet ports with failover, SNMP, Syslog, as well as integration with LDAP, Radius and Active Directory® authentication.



"World's Best KVM"

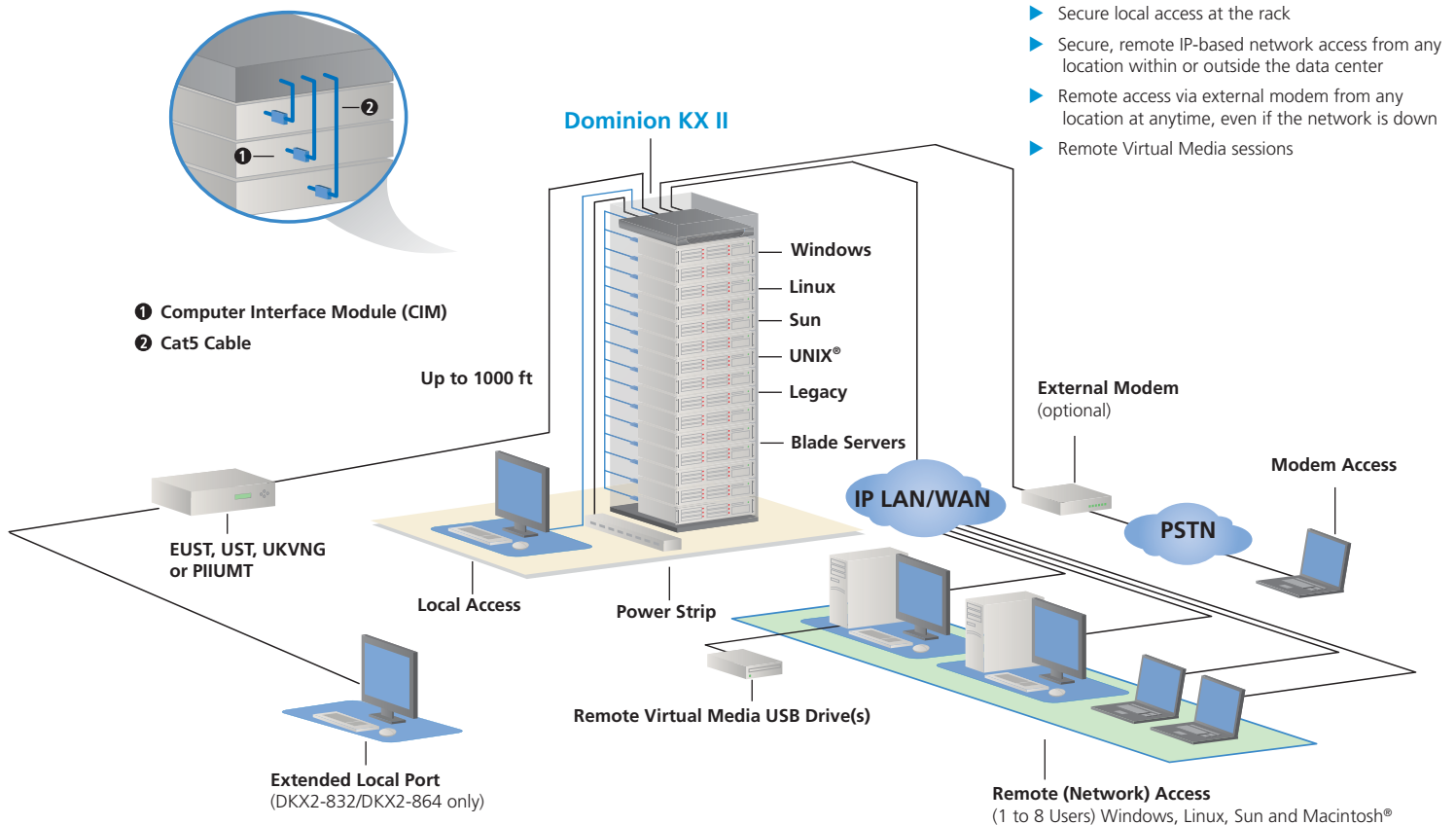
Raises Productivity while Enhancing Security

Lowest costs, increases productivity while reducing mean-time-to-repair

- ▶ Reduces expensive downtime by providing out-of-band access in emergencies
- ▶ Virtual Media gives users virtual access to storage media and enables them to exchange information between remote users and target servers – through the KVM connection – via the server's USB port
- ▶ Minimizes expensive and inconvenient travel to remote locations
- ▶ Common Web browser interface for remote and local access
- ▶ Optional remote power strips power on/off servers and provide power statistics
- ▶ Operates with select Paragon® and Dominion KX I CIMs
- ▶ At-the-rack and remote IP access to blade servers
- ▶ KX2-864 and KX2-832 models have extended local port to extend beyond the rack or to a Paragon II switch

Secure

- ▶ Secure Linux-based appliance
- ▶ 256 bit AES or 128 bit RC4 encryption
- ▶ All data encrypted, including video transmissions and Virtual Media
- ▶ Local or centralized authentication with LDAP, RADIUS or Active Directory support
- ▶ Configurable user and group permissions for server access and control
- ▶ Local and remote access logged and authenticated
- ▶ Uses configurable TCP port to preserve strict firewall settings
- ▶ Supports strong password protection
- ▶ Dual-stack networking: IPv4 and IPv6
- ▶ Can upload customer's digital security certificate



Easy to Install, Easy to Use

Easy to install and scale

- ▶ Easy installation – plug-and-play appliance, up and running in minutes
- ▶ One Dominion KX II device manages an entire rack or row of servers, including blade servers
- ▶ Hot-swap functionality allows users to add, relocate and swap components without disruption as your data center grows
- ▶ Deploy individually or integrate with any of Raritan's enterprise-wide data center solutions, using CommandCenter® Secure Gateway (CC-SG)

Features

- ▶ 1, 2, 4 or 8 remote KVM-over-IP channels
- ▶ Highest port density in the industry – models available with 8, 16, 32 and 64 ports
- ▶ Dual power supplies with failover
- ▶ Dual gigabit Ethernet ports with failover
- ▶ Browser-based local user port for at-the-rack access
- ▶ SNMP management and Syslog logging
- ▶ Plug-and-play installation
- ▶ Platform Independent – CIMs available for PS/2, USB, USB with Virtual Media, Sun and Sun USB
- ▶ External modem for emergency access
- ▶ Supports Dell®, HP and IBM® blade servers

Universal Virtual Media

- ▶ Standard on all Dominion KX II models
- ▶ Works stand-alone or with CC-SG
- ▶ Enables data center servers to access remote media from your desktop during a KVM connection
- ▶ Works across conforming USB enabled operating systems and BIOS
- ▶ Includes DVD/CD-ROMs, USB mass storage devices, PC hard drives and ISO images
- ▶ Expanded BIOS use of Virtual Media via CIM and USB Profile feature

Anytime, Anywhere Access and Control

The screenshot shows the Raritan web interface for a Dominion KX II device. The main navigation bar includes: Port Access, Virtual Media, User Management, Device Settings, Security, Maintenance, and Diagnostics. The current page is 'Port Access' for 'Dominion KX II'. On the left, there are sections for 'Time & Session' (showing user 'admin' and session details), 'Device Information' (listing device name, IP address, firmware, power, and power2 status), 'Port Status' (showing 2 ports up, 13 down, 15 idle), 'Connected Users' (showing user 'admin' and session time), and 'Favorite Devices' (listing Bastion KX II, Dominion KX II, and Preservant KX II). The main content area is titled 'Port Access' and contains a table with columns: Port Number, Port Name, Status, and Availability. Below the table is a 'Manage' button and a 'Display By IP' button. A copyright notice at the bottom reads 'Copyright © 2006 Raritan Computer Inc.'.

Port Number	Port Name	Status	Availability
1	Dominion-KX2_Port1	up	idle
2	Dominion-KX2_Port2	down	idle
3	Dominion-KX2_Port3	down	idle
4	Dominion-KX2_Port4	down	idle
5	Dominion-KX2_Port5	down	idle
6	Dominion-KX2_Port6	down	idle
7	Dominion-KX2_Port7	down	idle
8	Dominion-KX2_Port8	down	idle
9	Dominion-KX2_Port9	down	idle
10	Dominion-KX2_Port10	down	idle
11	Dominion-KX2_Port11	down	idle
13	Dominion-KX2_Port13	down	idle
14	Dominion-KX2_Port14	down	idle
15	Dominion-KX2_Port15	down	idle
16	Dominion-KX2_Port16	up	idle

Highest quality KVM over IP

- ▶ Award-winning KVM-over-IP technology
- ▶ Fastest, tightest mouse synchronization in the industry
- ▶ Intuitive Graphical User Interface (GUI)
- ▶ High quality video with low bandwidth utilization
- ▶ High (15-bit) color palette support
- ▶ Adaptive video settings for different bandwidth situations

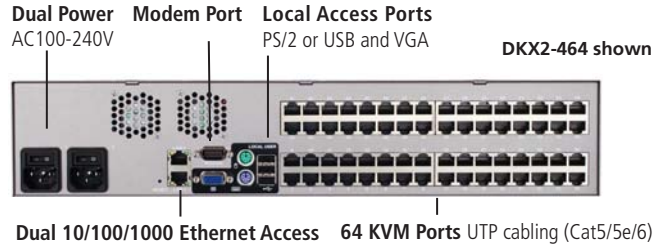
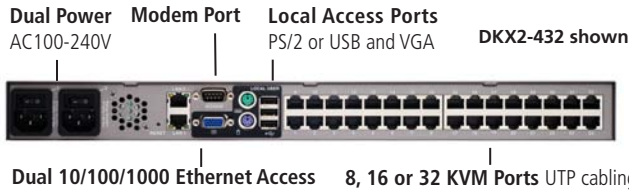
Virtual KVM Desktop

- ▶ Integrated, browser-based access and control
- ▶ Universal KVM Client™ supports Windows, Linux, Sun and Mac clients
- ▶ Multibrowser access for Internet Explorer, Firefox® and Mozilla®
- ▶ Full-screen video display
- ▶ Transparent keyboard handler
- ▶ Flexible video scaling

Visit www.raritan-ap.com/KXII

Raritan is a leading provider of secure IT infrastructure management solutions that provide IT directors, managers and administrators the control they need to increase data center productivity, enhance branch office operations and increase overall power management efficiency. In over 50,000 locations around the world, our integrated secure in-band and out-of-band server access, control and power management products help companies better monitor and manage server access, utilization and energy consumption. Our intelligent PDUs offer remote power control and monitoring at the rack and device level, empowering data center owners with information to improve uptime and capacity planning, and efficiently utilize energy to save power and money. Raritan's OEM division provides embedded hardware and firmware for server and client management, including KVM over IP, IPMI, intelligent power management and other industry standards-based management applications. Based in Somerset, N.J., Raritan has 38 offices worldwide, serving 76 countries. For more information, please visit Raritan.com

Specifications



Dominion KX II Model	Description	Dimensions - (WxDxH)	Weight	Power
DKX2-864	64 server ports, 8 remote users, 1 local port + extended local port	17.3" x 13.8" x 3.5"; 439 x 360 x 88mm	12.88 lbs; 5.8kg	Dual Power 100V/240V 47/63Hz 1.2A
DKX2-832	32 server ports, 8 remote users, 1 local port + extended local port	17.3" x 13.8" x 1.75"; 439 x 360 x 44mm	10.40 lbs; 4.7kg	Dual Power 100V/240V 47/63Hz 1A
DKX2-464	64 server ports, 4 remote users, 1 local port for use at the rack	17.3" x 11.4" x 3.5"; 439 x 290 x 90mm	13.73 lbs; 6.24kg	Dual Power 100V/240V 47/63Hz 1.5A
DKX2-432	32 server ports, 4 remote users, 1 local port for use at the rack	17.3" x 11.4" x 1.75"; 439 x 290 x 44mm	9.48 lbs; 4.3kg	Dual Power 100V/240V 50/60Hz 1A
DKX2-416	16 server ports, 4 remote users, 1 local port for use at the rack	17.3" x 11.4" x 1.75"; 439 x 290 x 44mm	9.04 lbs; 4.1kg	Dual Power 100V/240V 50/60Hz 1A
DKX2-232	32 server ports, 2 remote users, 1 local port for use at the rack	17.3" x 11.4" x 1.75"; 439 x 290 x 44mm	9.0 lbs; 4.1kg	Dual Power 100V/240V 50/60Hz 0.6A
DKX2-216	16 server ports, 2 remote users, 1 local port for use at the rack	17.3" x 11.4" x 1.75"; 439 x 290 x 44mm	8.65 lbs; 3.9kg	Dual Power 100V/240V 50/60Hz 0.6A
DKX2-132	32 server ports, 1 remote user, 1 local port for use at the rack	17.3" x 11.4" x 1.75"; 439 x 290 x 44mm	9.0 lbs; 4.1kg	Dual Power 100V/240V 50/60Hz 0.6A
DKX2-116	16 server ports, 1 remote user, 1 local port for use at the rack	17.3" x 11.4" x 1.75"; 439 x 290 x 44mm	8.65 lbs; 3.9kg	Dual Power 100V/240V 50/60Hz 0.6A
DKX2-108	8 server ports, 1 remote user, 1 local port for use at the rack	17.3" x 11.4" x 1.75"; 439 x 290 x 44mm	8.58 lbs; 3.9kg	Dual Power 100V/240V 50/60Hz 0.6A

Computer Interface Modules (CIMs)

CIM Model	Description	Dimensions - WxDxH	Weight
D2CIM-DVUSB	Dual USB CIM for BIOS Virtual Media and Absolute Mouse Synchronization	1.7" x 3.5" x 0.8"; 43 x 90 x 19mm	0.25lb; 0.11 kg
D2CIM-VUSB	USB CIM for Virtual Media, Absolute Mouse Synchronization	1.3" x 3.0" x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
DCIM-PS2	CIM for PS/2	1.3" x 3.0" x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
DCIM-SUN	CIM for Sun	1.3" x 3.0" x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
DCIM-USBG2	CIM for USB and Sun USB	1.3" x 3.0" x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
D2CIM-PWR	CIM for remote power management	1.3" x 3.0" x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg
P2CIM-SER	Paragon II / Dominion KX II CIM for serial (ASCII) devices	1.3" x 3.0" x 0.6"; 33 x 76 x 15mm	0.20lb; 0.09 kg

Specifications for all Dominion KX II Models

Form Factor	1U and 2U full width, rack mountable (brackets included)
Operating Temperature	0° - 40°C (32° - 104°F)
Humidity	20% - 85% RH
Remote Connection	Network: Dual 10/100/1000 gigabit Ethernet Access; Dual-stack: IPv4 and IPv6 Modem Port: DB9(F) DTE Protocols: TCP/IP, HTTP, HTTPS, UDP, RADIUS, SNMP, DHCP, PAP, CHAP
Local Access Port	Video: HD15(F) VGA Keyboard/Mouse: Mini-DIN6(F) PS/2 and USB (F), 1 USB front, 3 USB rear
Sample Video Resolutions	PC text mode: 640x350, 640x480, 720x400 PC graphic mode: 640x480, 800x600, 1024x768, 1152x864, 1280x1024, 1600x1200 Sun video mode: 1024x768, 1152x864, 1152x900, 1280x1024



D2CIM-VUSB



D2CIM-PWR



DCIM-PS2



D2CIM-DVUSB

Warranty	Two Years with Advanced Replacement*
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*To qualify for advanced replacement under the standard warranty, you must register the product at <http://www.raritan.com/support/product-warranty-registration>

Specifications are subject to change without notice.