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 + 1 extended local port
 – 8 remote users over the network

KX2-832
 – 32 KVM ports
 – 1 local + 1 extended local port
 – 8 remote users over the network

KX2-808
 – 8 KVM ports
 – 1 local + 1 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 Computer Rooms, 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 with 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™, DVI/HDMI/DisplayPort video, smart card/CAC, blade server support, audio, mobile access and dual power. Deploy individually, or with Raritan's CommandCenter® Secure Gateway (CC-SG).

KX II offers you features that enhance productivity

Raritan's Universal Virtual Media™ lets administrators remotely perform tasks such as installing software, transferring files and backing up data – eliminating trips to the data center. Customers can control and manage servers via their Apple® iPhones® and iPads®, through Raritan's CommandCenter Secure Gateway.

The Dominion KX II also features Absolute Mouse Synchronization, which reduces installation time and sets a new standard for mouse synchronization, and transparent keyboard. These, combined with 1920x1080 video resolution (the industry's highest), Virtual KVM Desktop™, virtual media and audio features, provide you with the industry's most responsive remote user experience. Multilanguage support is available for Japanese and Chinese languages.

Our Virtual KVM Desktop allows users to scale a target server's display to any size, from thumbnails to full-screen video – supported across multiple LCD monitors. Plus, it provides an intuitive user experience – locally or remotely – through a common browser-based user interface.

InfoWorld 2008 TECHNOLOGY OF THE YEAR AWARDS

"World's Best KVM"

KX II also boosts reliability and security

The Dominion KX II is the first KVM switch to use a certified FIPS 140-2 cryptographic module to meet U.S. and Canadian government security mandates. And with dual power supplies and dual gigabit Ethernet ports, the Dominion KX II is the most reliable and secure 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 server KVM ports and converts video signals for transmission of up to 150 feet over UTP (Cat5/5e/6) cabling

▶ KVM-over-IP remote access, local at-the-rack access, mobile access and modem access

▶ CIMs are available for analog VGA video and digital video including DVI, HDMI and DisplayPort

▶ Remote users easily access Dominion KX II from Windows®, Linux®, Sun® or Mac® desktops

▶ Customers can tier multiple Dominion KX II switches

▶ With Raritan's CommandCenter Secure Gateway, scales to access and control thousands of servers

Raritan

Know more. Manage smarter.™

Raises Productivity While Enhancing Security

Lowers Costs, Increases Productivity While Reducing Mean-Time-to-Repair

▶ Reduces expensive downtime via out-of-band BIOS-level access in emergencies from home, office or while traveling – even via iPhone or iPad

▶ With virtual media, users can perform more operations remotely

▶ Eliminates costly and inconvenient travel to the data center or lab

▶ Common Web browser interface for remote and local access. Chinese and Japanese language support

▶ Optionally power on/off servers

▶ Operates with select Paragon® and Dominion KX I CIMs

▶ At-the-rack and remote IP access to blade servers

▶ KX2-864, KX2-832 and KX2-808 models have an extended local port to extend beyond the rack or to a KX II switch

Industry-Leading Security

▶ Uses FIPS 140-2–certified cryptographic module

▶ Smart card/CAC authentication – remote and local

▶ 256-bit AES or 128-bit RC4 encryption

▶ All data encrypted, including video transmissions and virtual media

▶ Secure Linux-based appliance

▶ 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

▶ Stealth mode with user-configurable TCP ports

▶ Supports strong password protection

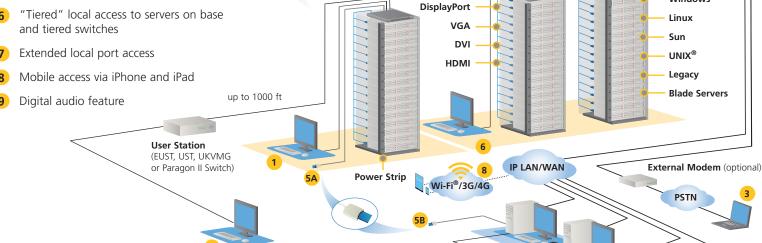▶ Customizable security banner for user login

▶ Dual-stack networking: IPv4 and IPv6

▶ Can upload customer's digital security certificate

In the diagram below, Dominion KX II provides:

1 Local port access at the rack

2 Secure, remote IP-based network access from any location

3 Remote access via external modem

4 Remote virtual media sessions

5 Smart card access

A At the rack

B Remote access

6 "Tiered" local access to servers on base and tiered switches

7 Extended local port access

8 Mobile access via iPhone and iPad

9 Digital audio feature

Computer Interface Module (CIM)

Cat5/6 Cable

Dominion KX II

Dominion KX II (Base Switch)

Dominion KX II (Tiered Switches)

DisplayPort
VGA
DVI
HDMI

Windows
Linux
Sun
UNIX®
Legacy
Blade Servers

up to 1000 ft

User Station (EUST, UST, UKVMG or Paragon II Switch)

Power Strip

Wi-Fi®/3G/4G

IP LAN/WAN

External Modem (optional)

PSTN

Easy to Install, Easy to Use

Easy to Install and Scale

▶ Easy installation – plug-and-play appliance

▶ Deploy individually, or with Raritan's CC-SG for centralized access and control of hundreds or even thousands of servers

Easy to Install and Scale

▶ 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 v2 and v3 management. Syslog logging

▶ Platform independent – CIMs available for PS/2, USB, USB with virtual media, Sun and Sun USB

▶ CIMs support analog VGA video, digital DVI, HDMI and DisplayPort video

▶ External modem for emergency access
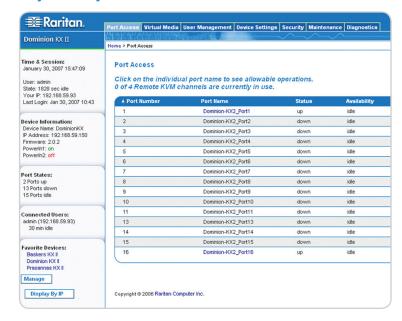
▶ Supports Dell®, HP®, Cisco® and IBM® blade servers

Universal Virtual Media

▶ Remotely install OS, load software, transfer files and back up data

▶ Enables data center servers to access remote media from your desktop during a KVM connection

▶ Includes DVD/CD-ROMs, USB mass storage devices, PC hard drives, floppy drives and ISO images

▶ Expanded BIOS use of virtual media via dual USB CIM and USB profile feature

▶ Remote smart card/CAC support via D2CIM-DVUSB

Highest Quality KVM over IP

▶ Award-winning KVM-over-IP technology

▶ High definition (HD) 1920x1080 remote video resolution

▶ Fastest, tightest mouse synchronization without changing server mouse settings

▶ Intuitive graphical user interface (GUI)

▶ High quality video with low bandwidth utilization

Anytime, anywhere access and control

▶ High (15-bit) color palette support

▶ Adaptive video settings for different bandwidth situations

▶ Play and record audio on remote servers

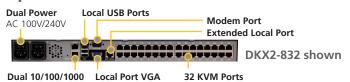▶ Port scanning and thumbnail views

Virtual KVM Desktop

▶ Integrated, browser-based access and control

▶ Native Windows and Java™ clients support Windows, Linux, Sun and Mac users

▶ Multibrowser access for Internet Explorer® and Firefox®

▶ Full-screen video display and flexible video scaling

▶ Dual monitor KVM client support

▶ Dual video cards with extended desktop

▶ Supports 1920x1080 and 1600x1200 remote video resolutions, including widescreen formats

Mobile KVM-over-IP Access

▶ Control servers via iPhone and iPad

▶ Remote troubleshooting anytime/anywhere

▶ Easy access – no App to download

▶ Enabled by CC-SG 5.2 (and later)

Call 1.800.724.8090 or visit www.raritan.com/KXII

Specifications

Dual Power
AC 100V/240V

Local USB Ports

Modem Port

Extended Local Port

DKX2-832 shown

Dual 10/100/1000 Ethernet Access

Local Port VGA

32 KVM Ports
UTP cabling (Cat5/5e/6)

Dual Power
AC 100V/240V

Local USB Ports

Modem Port

Extended Local Port

DKX2-864 shown

Dual 10/100/1000 Ethernet Access

Local Port VGA

64 KVM Ports
UTP cabling (Cat5/5e/6)

Dominion KX II Model	Description	Dimensions (WxDxH)	Weight	Power and Heat Dissipation
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	12.88lbs; 5.8kg	Dual Power 100V/240V 47/63Hz 1.2A 67W 58 KCAL
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	10.40lbs; 4.7kg	Dual Power 100V/240V 47/63Hz 1A 55W 47 KCAL
DKX2-808	8 server ports, 8 remote users, 1 local port + extended local port	17.3" x 13.8" x 1.75"; 439 x 360 x 44mm	10.40lbs; 4.7kg	Dual Power 100V/240V 47/63Hz 1A 55W 47 KCAL
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	13.73lbs; 6.24kg	Dual Power 100V/240V 47/63Hz 1.5A 64W 55 KCAL
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	9.48lbs; 4.3kg	Dual Power 100V/240V 47/63Hz 1A 63W 54 KCAL
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	9.04lbs; 4.1kg	Dual Power 100V/240V 47/63Hz 1A 63W 54 KCAL
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	9.0lbs; 4.1kg	Dual Power 100V/240V 47/63Hz 0.6A 63W 54 KCAL
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	8.65lbs; 3.9kg	Dual Power 100V/240V 47/63Hz 0.6A 62W 53 KCAL
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	9.0lbs; 4.1kg	Dual Power 100V/240V 47/63Hz 0.6A 62W 53 KCAL
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	8.65lbs; 3.9kg	Dual Power 100V/240V 47/63Hz 0.6A 62W 53 KCAL
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	8.58lbs; 3.9kg	Dual Power 100V/240V 47/63Hz 0.6A 61W 53 KCAL

Computer Interface Modules (CIMs)

D2CIM-DVUSB – Dual USB, VGA CIM for BIOS virtual media and advanced features	**D2CIM-DVUSB-DVI –** Dual USB, DVI-D CIM for BIOS virtual media and advanced features
D2CIM-VUSB – USB CIM for virtual media and Absolute Mouse Synchronization	**D2CIM-DVUSB-HDMI –** Dual USB, HDMI CIM for BIOS virtual media and advanced features
DCIM-PS2 – CIM for PS/2	**D2CIM-DVUSB-DP –** Dual USB, DisplayPort CIM for BIOS virtual media and advanced features
DCIM-SUN – CIM for Sun	**D2CIM-PWR –** CIM for remote power management
DCIM-USBG2 – CIM for USB and Sun USB	**P2CIM-SER –** Paragon II/Dominion KX II CIM for serial (ASCII) devices

Specifications for All Dominion KX II Models

Form Factor	1U and 2U full width, rack mountable (brackets included)
Operating Temperature **Humidity**	0° - 40° C (32° - 104° F) 20% - 85% RH
Remote Connection Network Modem Port Protocols	Dual 10/100/1000 gigabit Ethernet access; dual-stack: IPv4 and IPv6 DB9(F) DTE TCP/IP, HTTP, HTTPS, UDP, RADIUS, SNTP, DHCP, PAP, CHAP, LDAP, SNMP v2 and v3
Local Access Port Video Keyboard/Mouse	HD15(F) VGA USB(F), 1 USB front, 3 USB rear
Sample Video Resolutions PC text mode PC graphic mode Sun video mode	640x350, 640x480, 720x400 640x480, 800x600, 1024x768, 1152x864, 1280x1024, 1440x900, 1680x1050, 1600x1200, 1920x1080 1024x768, 1152x864, 1152x900, 1280x1024
Warranty	Two years standard with advanced replacement*

D2CIM-DVUSB-DP

D2CIM-DVUSB-HDMI

D2CIM-VUSB

D2CIM-DVUSB-DVI

DCIM-PS2

D2CIM-DVUSB

*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.