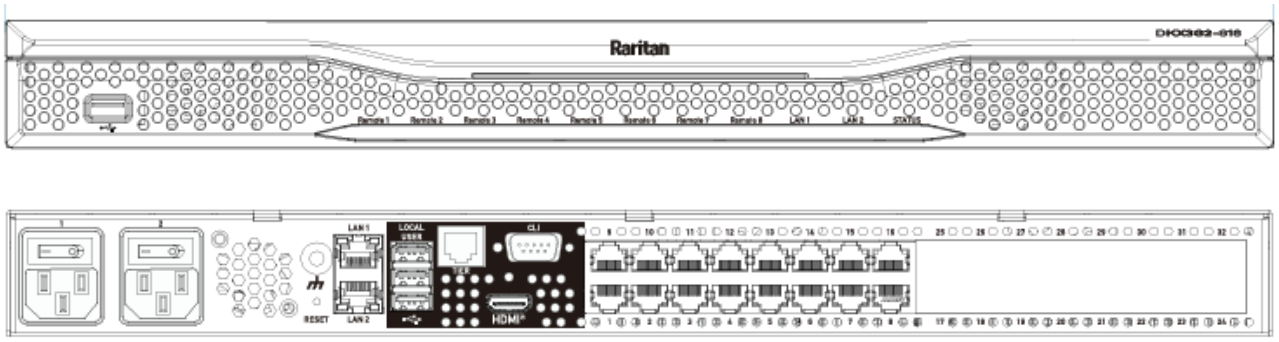
Technical Specifications

Model Number(s):

DKX3G2-816

LINE DRAWING



PRODUCT DETAILS

Product Brand	Raritan
Product Group	KVM-Over-IP Switch
Product Family	Enterprise IP Switch
Product Type	Dominion KX III G2
Product Name/Model	DKX3G2-816
Generation	Generation 2
Product Description	16-port KVM-Over IP Switch, 8 remote sessions, HDMI local port, virtual medial, dual power
Remote Sessions	8
Local User	1
Channel Ports	16

Technical Specifications

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DKX3G2-816

FEATURES

Network Access	LAN, WAN, External Modem
TCP Ports Listening	80: http access (configurable) 443: https access (configurable) 5000: CC-SG and KXUS access (configurable) 22: SSH access (if enabled, configurable) 68: DHCP access (if DHCP is enabled)
TCP Ports Outgoing	389: LDAP authentication (if LDAP is enabled, configurable) 636: LDAPS/StartTLS (if LDAPS/StartTLS is enabled, configurable) 25: SMTP (email) (if enabled) 445: SMB (Windows File System) access (Remote ISO image access)
UDP Ports Listening	162: SNMP access (if SNMP Agent is enabled) 5001: CC_SG event notification (if under CC-SG management)
UDP Ports Outgoing	514: Syslog (if enabled, configurable) 5001: CC_SG event notification (if under CC-SG management, configurable) 1812: RADIUS authentication (if enabled, configurable) 1813: RADIUS authentication (if enabled, configurable)
SECURITY	
User Authentication	Local DB, LDAP, RADIUS, AD
Encryption	TLS, SNMP (AES and DES), FIPS 140, PBKDF2, HTTPS Custom Certificates, Certificate & Hostname Verification, User Credentials, Secure Connection
Security Stack	Operating System: Proprietary Source Code & Open-Source Libraries SSH Stack: Dropbear SSL Stack: OpenSSL
System Security	Nessus Vulnerability Scanner runs on every firmware release. Strong passwords required by default. OpenSSL FIPS 140-2 IP Access Control 802.1x – Physical Ethernet Router Security & Validation Secure Boot

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SPECIFICATIONS

Form Factor	1U full width, rack mountable (brackets included)
Remote Connection Network	Dual 10/100/1000 gigabit Ethernet access Dual-Stack: IPv4 and IPv6, DB9(F) DTE
Communication Protocols	TCP/IP, HTTP, HTTPS, UDP, RADIUS, SNTP, DHCP, PAP, CHAP, LDAP, SNMP v2 and v3
SDRAM	2 GB (OS, Application & Data)
DDR RAM	5x 256 MB (Video Buffer Chip)
Flash Memory	8 GB (OS & Application)
Audio	USB
Decibel Level	46 dB
Fan Airflow	4.7CFM (ft3/min)
Factory Reset Button	Resets device to factory-installed defaults
Redundancy	Dual Power, Dual Ethernet
POWER	
Maximum Power Consumption	1.8A, 35W
Standby Power Consumption	N/A
Dual Power	AC 100V/240V, 50-60Hz
FRONT PANEL	
Communication/Mouse	USB-A
LED Indicators	**LED Light Bar**: Power LED Light Bar is RED or WHITE • Red = Single Power Mode • White = Dual Power Mode **Status RGB LED**: Front Panel Status LED is RED, GREEN or BLUE • Green = Boots up and available to use • Blue = Firmware Upgrade, System Boot Up & Reboot • Red = Warning (e.g. Fan Fail, Over Temp, Firmware Failure. See log file for warning details.) **RMT1-8 LEDs**: Remote Session Status: Channel LED is WHITE • White = Connected Session **LAN1 & LAN2 LEDs**: Network Connection Status: LAN LED is WHITE • White = Network Connected **RJ45 Rear Port LEDs**: Network Activity: For each LAN, choose the LAN Interface Speed & Duplex from the following options (autodetect is default): • 10 Mbps/Half & Full – Green & Orange LEDs blink • 100 Mbps/Half & Full - Orange LED blinks • 1000 Mbps/Full (gigabit) - Green LED blinks Half-duplex provides for communication in both directions, but only one direction at a time (not simultaneously). Full duplex allows communication in both directions simultaneously.

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REAR PANEL	
Video	Single HDMI
Keyboard/Mouse	USB-A x 3
CLI Port	Serial Admin Port - DB9(F) DTE
Tiering Port – Port 1	RJ-45 (shielded)
KVM Ports	16 ports
Type of KVM Port	RJ-45 (shielded)
Type of Cabling	UTP Cabling (Cat5/5e/6) STP Cabling (performance & distance may be impacted)
VIDEO	
Maximum Color	24-bit, 4:4:4
Maximum Video Speed	60 Frames Per Second (FPS)
Maximum Video Resolution	1080p (1920x1080) | 1200p (1920x1200) | 1600x1200
Target Server Video Resolutions	640x350@70Hz, 640x350@85Hz, 640x400@56Hz, 640x400@84Hz, 640x400@85Hz, 640x480@60Hz, 640x480@66.6Hz, 640x480@72Hz, 640x480@75Hz, 640x480@85Hz, 720x400@70Hz, 720x400@84Hz, 720x400@85Hz, 800x600@56Hz, 800x600@60Hz, 800x600@70Hz, 800x600@72Hz, 800x600@75Hz, 800x600@85Hz, 800x600@90Hz, 800x600@100Hz, 832x624@75.1Hz, 1024x768@60Hz, 1024x768@70Hz, 1024x768@72Hz, 1024x768@85Hz, 1024x768@75Hz, 1024x768@90Hz, 1024x768@100Hz, 1152x864@60Hz, 1152x864@70Hz, 1152x864@75Hz, 1152x864@85Hz, 1152x870@75.1Hz, 1280x720@60Hz, 1280x800@60Hz, 1280x960@60Hz, 1280x960@85Hz, 1280x1024@60Hz, 1280x1024@75Hz, 1280x1024@85Hz, 1360x768@60Hz, 1366x768@60Hz, 1368x768@60Hz, 1400x1050@60Hz, 1440x900@60Hz, 1600x900 @60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@50Hz, 1920x1080@60Hz, 1920x1200@60Hz (Requires Reduced Blanking Time)* *For 1920x1200@60Hz, you must use a digital CIM and set the CIM's preferred resolution to 1920x1200@60Hz.
Local Port HDMI Resolutions	The local port and remote console support the same resolutions.
PC Text Mode	640x350, 640x480, 720x400
PC Graphic Mode	640x480, 800x600, 1024x768, 1152x864, 1280x1024, 1440x900, 1680x1050, 1600x1200, 1920x1080, 1920x1200

Technical Specifications

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PHYSICAL

Color	Chassis Black – Front Panel Gray
Material of Construction	Steel
Unit Dimensions (LxWxD)	17.3” x 13.1” x 1.7”; 440 x 334 x 44 mm
Unit Weight	9.8 lbs; 4.46 kg
Shipping Dimensions (LxWxD)	21.65" x 18.11" x 5.98"; 550 X 460 X 152 mm
Shipping Weight	15.72 lbs; 7.13 kg

ENVIRONMENTAL

Operating Temperature	0°C to 45°C / 32°F to 113°F
Non-Operating Temperature	-30°C to 80°C / -22°F to 176°F
Operating Relative Humidity	0~85%
Non-Operating Relative Humidity	0~95%
Heat Dissipation	52 KCAL
Shipping Altitude	12000m (40000ft)
Operating Altitude	2000m below 4000m (6500~13000ft)
Storage Temperature	-30°C to 80°C / -22°F to 176°F
Storage Relative Humidity	0~95%
MTBF	8,976,236

CONFORMANCE

Regulatory Approvals	CE, ICES-003, FCC Class-A, VCCI-A, KCC, UL/ Listed, UKCA, BSMI, MOROCCO, Mexico NOM
IMPORT/EXPORT	
ECCN	5A992.c
HTS	8473.30.5100

WARRANTY

Included	2 Year Standard Warranty http://www.raritan.com/support/product-warranty-registration
WARDKX3G2-816/24A-1	1 Year Extended Warranty – Gold Warranty
WARDKX3G2-816/24A-2	2 Year Extended Warranty – Platinum Warranty
Maximum Warranty Period	5 Years

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ACCESSORIES

DSAMs	
DSAM-4	Module with 4 “true” serial ports connecting to the KX III switch via USB
DSAM-2	Module with 2 “true” serial ports connecting to the KX III switch via USB
CIMS	
D2CIM-DVUSB	Dual USB, VGA CIM for BIOS virtual media and advanced features
D2CIM-VUSB	USB CIM for virtual media and Absolute Mouse Synchronization
D2CIM-VUSB-USBC	Single USB-C CIM for virtual media and Absolute Mouse Synchronization
D2CIM-DVUSB-DP	Dual USB, USB CIM for BIOS virtual media and advanced features
D2CIM-DVUSB-HDMI	Dual USB, HDMI CIM for BIOS virtual media and advanced features
D2CIM-DVUSB-DVI	Dual USB, DVI-D CIM for BIOS virtual media and advanced features
DCIM-USBG2	CIM for USB and Sun USB Keyboard and mouse
DCIM-PS2	CIM for PS/2
CARD READERS	
A card reader must be USB-based and CCID compliant. A complete list of card readers supported by CCID driver version 1.4.30 is available at https://ccid.apdu.fr/#readers The following readers were tested with KX III:	
- SCR331 – Firmware 0518 or later	- SCM Microsystems SCR3310
- HID Global 3121	- Dell Smartcard Reader Keyboard
- DOD Common Access Card (CAC)	- Personal Identity Verification (PIV) Card
- PIVKey C910 – Client Authentication Certificate must be mapped to 9A	

ADDITIONAL INFORMATION

Patents: Information on Raritan patents is available at www.raritan.com/patents.

“Global” models are typically for use in countries outside of North America. Contact your local Raritan representative for more information about which models are appropriate for your application.

Information in this document is current as of time of publishing. Contact your local Raritan representative for the most up-to-date information.

This datasheet was generated on *June 3, 2026*.

Interested in learning more about how Raritan products can help you manage and distribute power in your data center? Visit us online at www.raritan.com.

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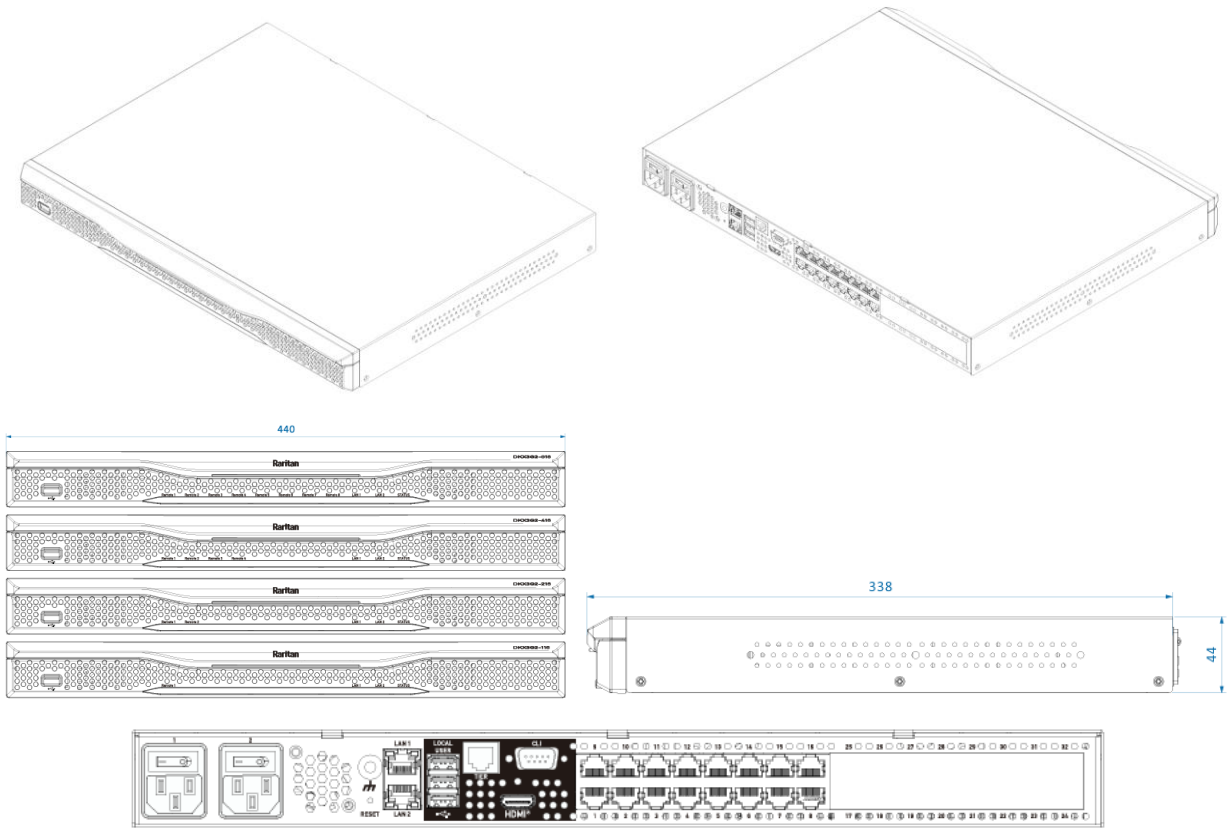
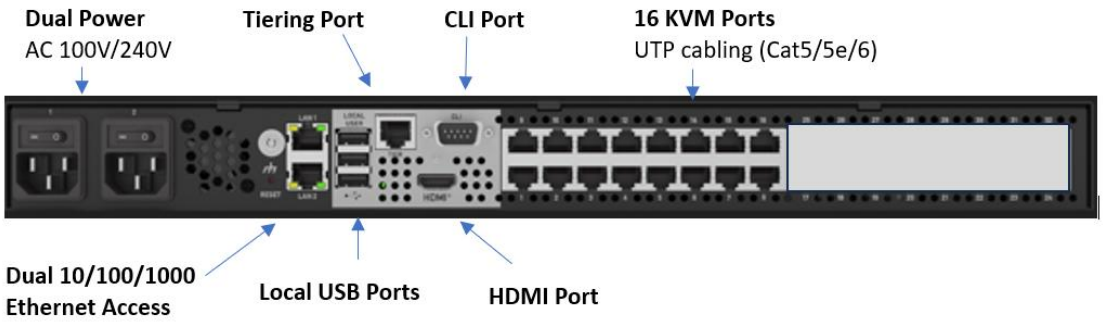
DKX3G2-816

MECHANICAL DRAWING



Dominion KX III G2 Ports and Connections



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