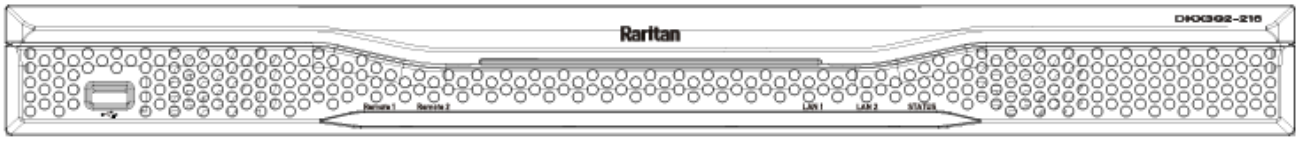
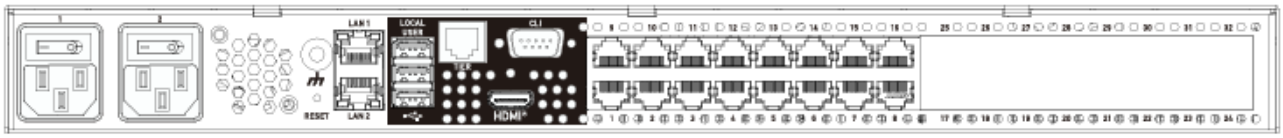
# Technical Specifications

Model Number(s):

**DKX3G2-216**

## 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 | DKX3G2-216 |
| Generation | Generation 2 |
| Product Description | 16-port KVM-Over IP Switch, 2 remote sessions, HDMI local port, virtual medial, dual power |
| Remote Sessions | 2 |
| Local User | 1 |
| Channel Ports | 16 |

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## FEATURES

| | |
|---|---|
| Network Access | LAN, WAN, External Modem |
| TCP Ports Listening | 80: http access (configurable)<br>443: https access (configurable)<br>5000: CC-SG and KXUS access (configurable)<br>22: SSH access (if enabled, configurable)<br>68: DHCP access (if DHCP is enabled) |
| TCP Ports Outgoing | 389: LDAP authentication (if LDAP is enabled, configurable)<br>636: LDAPS/StartTLS (if LDAPS/StartTLS is enabled, configurable)<br>25: SMTP (email) (if enabled)<br>445: SMB (Windows File System) access (Remote ISO image access) |
| UDP Ports Listening | 162: SNMP access (if SNMP Agent is enabled)<br>5001: CC_SG event notification (if under CC-SG management) |
| UDP Ports Outgoing | 514: Syslog (if enabled, configurable)<br>5001: CC_SG event notification (if under CC-SG management, configurable)<br>1812: RADIUS authentication (if enabled, configurable)<br>1813: RADIUS authentication (if enabled, configurable) |
| **SECURITY** | |
| User Authentication | Local DB, LDAP, RADIUS, AD |
| Encryption | TLS, SNMP (AES and DES), FIPS 140, PBKDF2, HTTPS<br>Custom Certificates, Certificate & Hostname Verification, User Credentials, Secure Connection |
| Security Stack | Operating System: Proprietary Source Code & Open-Source Libraries<br>SSH Stack: Dropbear<br>SSL Stack: OpenSSL |
| System Security | Nessus Vulnerability Scanner runs on every firmware release.<br>Strong passwords required by default.<br>OpenSSL FIPS 140-2<br>IP Access Control<br>802.1x – Physical Ethernet Router Security & Validation<br>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<br>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 | 35 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<br>• Red = Single Power Mode<br>• White = Dual Power Mode<br>**Status RGB LED**: Front Panel Status LED is RED, GREEN or BLUE<br>• Green = Boots up and available to use<br>• Blue = Firmware Upgrade, System Boot Up & Reboot<br>• Red = Warning (e.g. Fan Fail, Over Temp, Firmware Failure. See log file for warning details.)<br>**RMT1-8 LEDs**: Remote Session Status: Channel LED is WHITE<br>• White = Connected Session<br>**LAN1 & LAN2 LEDs**: Network Connection Status: LAN LED is WHITE<br>• White = Network Connected<br>**RJ45 Rear Port LEDs**: Network Activity: For each LAN, choose the LAN Interface Speed & Duplex from the following options (autodetect is default):<br>• 10 Mbps/Half & Full – Green & Orange LEDs blink<br>• 100 Mbps/Half & Full - Orange LED blinks<br>• 1000 Mbps/Full (gigabit) - Green LED blinks<br>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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## DKX3G2-216

| | |
|---|---|
| **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)<br>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)*<br>*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 |

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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<br>http://www.raritan.com/support/product-warranty-registration |
| WARDKX3G2-216/24A-1 | 1 Year Extended Warranty – Gold Warranty |
| WARDKX3G2-216/24A-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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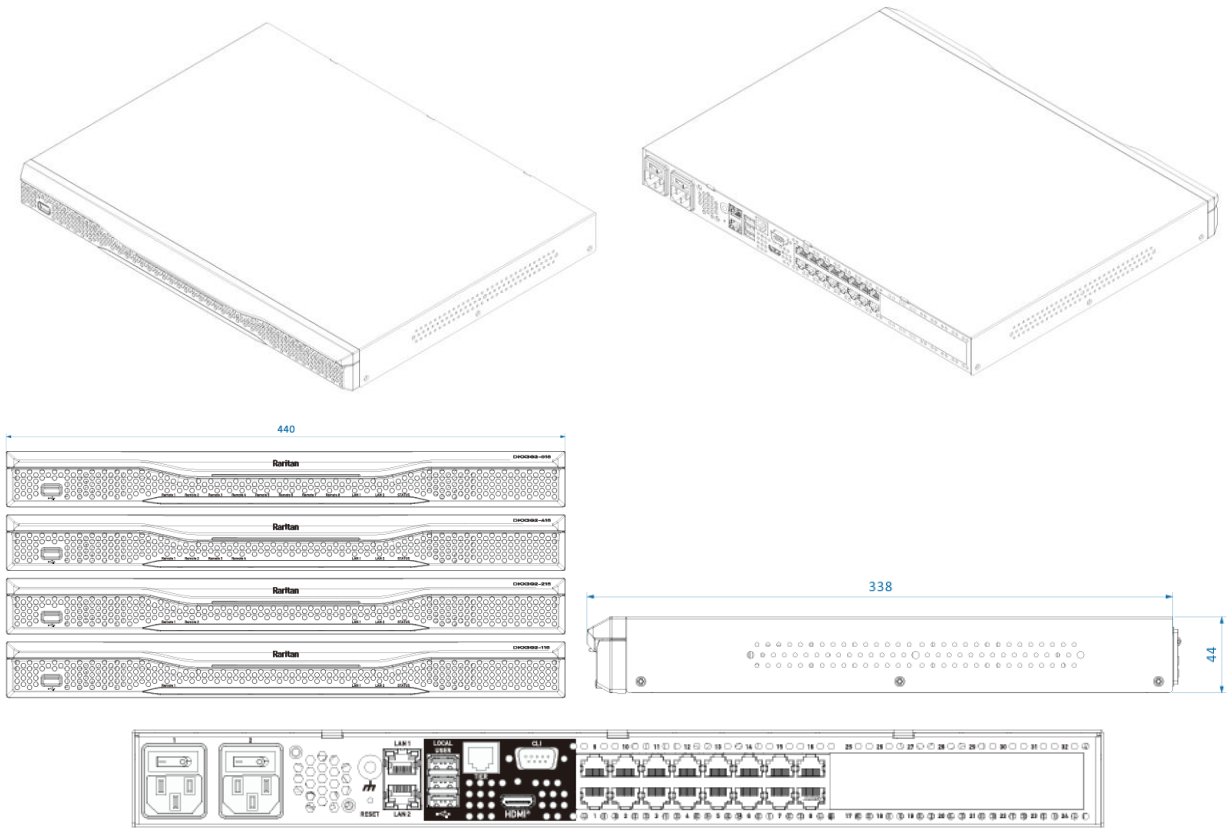
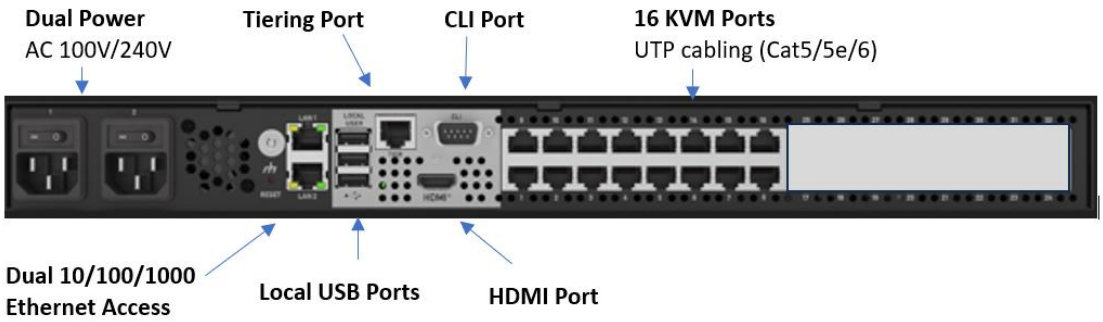
## MECHANICAL DRAWING




### Dominion KX III G2 Ports and Connections

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