



## KVM and Serial Access Solution for the Remote Office

### Dominion XRO Series

Secure, multi-user, integrated serial and KVM access of target servers and IT devices for small remote, telecom locations

#### DXRO-41

– 4 Serial ports / 1 KVM port

#### DXRO-42

– 4 Serial ports / 2 KVM ports

#### DXRO-43

– 4 Serial ports / 3 KVM ports

#### DXRO-81

– 8 Serial ports / 1 KVM port

#### DXRO-82

– 8 Serial ports / 2 KVM ports

#### DXRO-83

– 8 Serial ports / 3 KVM ports

### Secure, Remote, Out-Of-Band Access and Power Control of Servers and Other Network Devices over IP

The Dominion XRO is a remote access solution designed to meet the challenges of managing IT infrastructure in many small remote branches, retail outlets and offices:

- The high costs of truck rolls to dispatch limited staff - or third-party contractors - to troubleshoot servers, telecom and other IT devices
- The staff/hours lost to fire-fighting and the revenue lost to downtime
- The security concerns that scale with the geographic breadth of the network
- The data integrity and security requirements that must be satisfied and documented for regulatory compliance

The Dominion XRO (DXRO) meets these challenges by putting your IT staff virtually "at the rack" at any remote site in the enterprise, reducing expensive site visits, the high cost of support personnel, and mean-time-to-repair. DXRO packs secure, BIOS-level KVM (Keyboard, Video and Mouse) control, console-level serial device control, and power control into a 1U form factor. It provides immediate, centralized, out-of-band access to any device in your enterprise IT network, from any Web browser. Equally important, it's priced to meet the ROI and performance requirements of enterprises with large numbers of small remote locations.

### Remote access that works when software solutions don't

The Dominion XRO's out-of-band access assures access to distressed devices when software-based, in-band solutions cannot - even when the OS has failed, or the network interface card is down. A built-in modem assures access even when the network or the Internet is down.

Under the centralized management of Raritan's CommandCenter® Secure Gateway appliance, DXRO deployments can integrate hundreds of sites into a single logical network, with a single-sign on to a single IP address. They can:

- Streamline administration through a single platform to manage groups, users and permissions
- Strengthen security by limiting each user's views of the IT infrastructure to those areas he or she is responsible for, and by keeping remote office personnel out of server closets
- Produce reports that help document regulatory compliance

Dominion XRO allows system administrators to troubleshoot and even reboot all of your remote equipment, including:

- Domain Servers
- File/Print Servers
- Headless Servers
- Network Appliances
- PBXs
- Serial IT Equipment
- Switches
- Routers
- Firewalls
- UPS
- Security Interfaces
- Application Servers
- Load Balancers
- Environmental Control
- VoIP Gateways

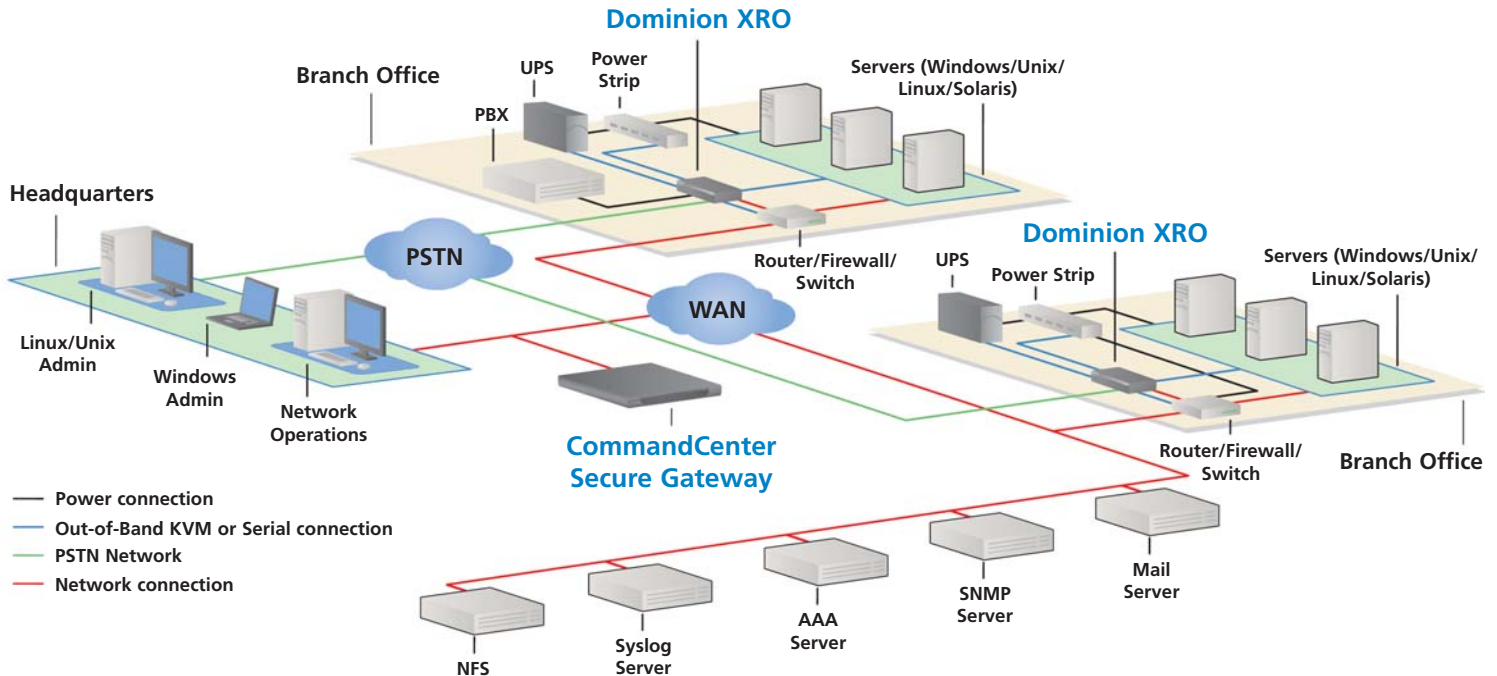
# Anytime, anywhere access and control

The Dominion XRO's KVM-over-IP access is provided through single-user, single-port devices that attach to the target server. With a dedicated channel to each server, this access does not risk the blocking inherent in switched KVM architectures. Four or eight ports of Serial-over-IP access are provided at each site through a 1U, rack-mounted appliance.

## Serial Management for VT100/220/320/ANSI Devices

- Direct serial port access via IP address for SSH/Telnet/HTTP(S) or TCP port for SSH and Telnet
- Standalone Raritan Serial Client (Java-based) for direct port connection
- Routing between LAN port and the modem port

- Up to 12 users per port to allow collaborative troubleshooting
- Idle timeout and target session timeout for improved security
- Copy and paste session information among different ports
- Windows Server 2003 EMS support
- Solaris Ready™ certified (Sun "break-safe")
- Session encrypted logging to NFS server (all key strokes)
- Keyword recognition and alarming
- Keyword event notification via e-mail
- Equivalent administration features via HTML-based GUI and CLI (SSH/Telnet)
- SNMP traps



# Simplified, Secure, Centralized IT Infrastructure Management

## Server Management via KVM

- Anytime, anywhere BIOS-level access via the industry's broadest range of browsers, including Internet Explorer, Mozilla™ Firefox and Netscape®
- Non-blocked, switchless access by any user to any server
- Virtual KVM Desktop™ creates an "at-the-rack" experience for users
- Tight mouse synchronization that reduces latency
- PC Share mode gives up to eight users remote access to the same server for training or troubleshooting
- Supports Windows®, Mac®, Linux® and Sun® Solaris™ platforms
- IPMI support

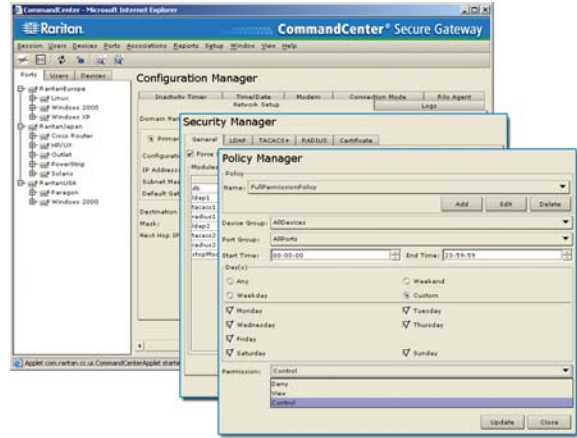
## Security

Dominion XRO provides bulletproof security via:

- Hardened Linux core, eliminating unauthorized intrusion into the Linux system
- SSL 128-, 192- and 256-bit RSA public key and 128-bit RC4 private key encryption
- User installable SSL security certificates
- User authentication with RADIUS, LDAP, TACACS+, Kerberos and Active Directory® support
- Full firewall functionality
- Customizable group and user profiles
- User event and encrypted keystroke logging for audit purposes
- Strong password support
- Forced idle session termination from Dominion XRO and from target

## Command Center Secure Gateway: One Consolidated View

- Secure, single point of access and IP address for managing multiple Raritan Dominion XRO deployments, as well as Dominion KX/SX/KSX, Paragon II, IP-Reach and Remote Power Control devices
- Remote device access through a simple user GUI interface for serial and KVM or direct SSH for serial access



- Centralized user, group and role-based permission management
- SecureChat for secure, multi-user collaboration per port
- Real-time view and management of active user sessions and active ports
- Array of flexible logging and reporting options with audit trails for diagnostics and troubleshooting
- Integrated with CommandCenter NOC for seamless network performance, asset, intrusion and bandwidth monitoring, alerting and reporting

## Return on Investment

Dominion XRO pays for itself quickly by:

- Eliminating expensive and inconvenient travel to remote locations
- Leveraging the centralized expertise of IT managers, regardless of their locations
- Reducing costly administration of on-call labor and outsourced service providers
- Improving personnel efficiency by slashing expensive downtime
- Minimizing lost revenue by maximizing network availability

**Ask your Raritan representative to provide the ROI modeling tool!**

Raritan is a leading supplier of solutions for managing IT infrastructure equipment and the mission-critical applications and services that run on it. Raritan was founded in 1985, and since then has been making products that are used to manage IT infrastructures at more than 50,000 network data centers, computer test labs and multi-workstation environments around the world. From the small business to the enterprise, Raritan's complete line of compatible and scalable IT management solutions offers IT professionals the most reliable, flexible and secure in-band and out-of-band solutions to simplify the management of data center equipment, applications and services, while improving operational productivity. More information on the company is available at [Raritan.com](http://Raritan.com).

# Specifications

## Serial

| Physical Requirements      |  |
|----------------------------|--|
| Form factor                | 1U, rack mountable   |
| Power                      | 110/220V auto-switching: 50-60 Hz  |
| Dual Power                 | DSXRO8X Only   |
| Dimensions (DxWxH)         | DSXRO4X 11.34" x 10.7" x 1.75"; 288 x 270 x 44mm<br>DSXRO8X 11.34" x 10.7" x 1.75"; 288 x 270 x 44mm |
| Weight                     | DSXRO4X 4.61 lbs; 2.08kg<br>DSXRO8X 4.81 lbs; 2.17kg   |
| Environmental requirements |  |
| Operating temperature      | 32° (0°C) to 104° (40°C)   |
| Humidity                   | 20% - 85% RH non-condensing  |
| Altitude                   | Operates properly at any altitude from 0 to 10,000 feet  |
| Approvals                  | CE, FCC Part 15 Class A, US and Canadian UL, VCCI-A, Sun Breaksafe Certified                         |
| Remote connection          |  |
| Network                    | 10/100 Ethernet (RJ-45) - one or two   |
| Protocols                  | TCP/IP, PPP, PAP, HTTP, HTTPS, SSL, SSH, TACACS+, LDAP(S), RADIUS, SNMP                              |
| Serial Connection          | RJ-45 with Standard Cat 5 Cabling  |
| Warranty                   | Two Years with Advanced Replacement*   |

| Connection Adapters |  |
|---------------------|--|
| ASCSDB9F            | RJ-45(F) to DB9(F) serial adapter  |
| ASCSDB9M            | RJ-45(F) to DB9(M) serial adapter  |
| ASCSDB25F           | RJ-45(F) to DB25(F) serial adapter   |
| ASCSDB25M           | RJ-45(F) to DB25(M) serial adapter   |
| CRLVR-15            | 15' (4.572m) serial rollover Cat5 cable - for most Cisco and Sun serial RJ-45 ports  |
| CSCSPCS-10          | 10' (3.048m) Cat5e cable to connect Dominion SX to Raritan remote power control unit |

| Cat5 Rollovers |  |
|----------------|--|
| CRLVR-1        | 1' (0.3m) serial rollover Cat5 adapter cable (RJ45 Male to RJ45 Female) - for most Cisco and Sun serial RJ-45 ports                        |
| CRLVR-1-5PK    | Package of 5 CRLVR-1 (1'; 0.3m) serial rollover Cat5 adapter cables (RJ45 Male to RJ45 Female) - for most Cisco and Sun serial RJ-45 ports |
| CSCSPCS-1      | 1' (0.3m) Cat5e adapter cable (RJ45 Male to RJ45 Female) to connect Dominion SX to Raritan remote power control unit                       |
| CSCSPCS-1-5PK  | Package of 5 CSCSPCS-1 (1'; 0.3m) adapter cables (RJ45 Male to RJ45 Female) to connect Dominion SX to Raritan remote power control unit    |
| RUST-LM304     | 19" (482.6mm) standard rack mount brackets for 4- or 8-port DSX models   |

## KVM

| Physical Requirements      |  |
|----------------------------|--|
| Form factor                | Zero U form factor; rack mountable vertically or horizontally (bracket kit included)   |
| Dimensions (DxWxH)         | 4.055" x 2.913" x 1.063"; 103 x 74 x 27mm  |
| Weight                     | 0.6292lbs; 0.286kg   |
| Power                      | AC/DC (100-240V~/ 6VDC) power adapter or Power over Ethernet (PoE)<br>- Mid-Span Power Insertion<br>- Signal-Pair Power Insertion                                |
| Environmental requirements |  |
| Operating temperature      | 0° - 40°C (32° - 104°F)  |
| Humidity                   | 20% - 85% RH   |
| Indicators                 |  |
| Blue RARITAN back-lit logo | Boot-up and power-level indicator  |
| Green LED                  | Network activity   |
| Local connection           | Serial Admin Console Port 1 - RJ11 port for RS232 serial communication connection  |
| Remote Connection          |  |
| Network                    | One 10/100 Ethernet (RJ45) port  |
| Protocols                  | TCP/IP, HTTP, HTTPS, UDP, RADIUS, LDAP, SNMP, DHCP   |
| Screen Resolutions         |  |
| PC graphic mode            | Up to 1600 X 1200 @ 60Hz   |
| SUN® video mode            | 640 X 480 @ 60/72/75/85Hz,<br>800 X 600 @ 56/60/72/75/85Hz,<br>1024 X 768 @ 60/70/75/85Hz,<br>1152 X 864 @ 60/75Hz,<br>1280 X 1024 @ 60Hz,<br>1600 X 1200 @ 60Hz |
| Warranty                   | Two Years with Advanced Replacement*   |

**When you're ready to take control,  
do it with Dominion XRO.**

**Call 1.800.724.8090 or visit [Raritan.com/dxro](http://Raritan.com/dxro)**

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\*To qualify for advanced replacement under the standard warranty, you must register the product at [http://Raritan.com/standard\\_warranty](http://Raritan.com/standard_warranty). Specifications are subject to change without notice.