



Secure Console Server: Serial Control via SSH and Web Browser

Dominion SX Series

Secure, multi-user remote serial access of up to 48 target servers and IT devices

Dominion SX4

– 4 Serial ports

Dominion SX8

– 8 Serial ports

Dominion SX16

– 16 Serial ports

Dominion SX32

– 32 Serial ports

Dominion SX48

– 48 Serial ports



Secure, out-of-band remote management capability with maximum security and integrated power control

Dominion SX allows IT professionals to access, monitor and control all their serial devices securely, anytime, from anywhere. Easy to install, simple to use, secure and scalable, the Dominion SX provides one point of control to manage a wide range of servers and IT devices:

- ▶ Servers and headless servers – Sun[®] Cobalt[™], Solaris[™], HP-UX, UNIX[®], Linux[®], IBM[®] AIX[®], Windows Server[™] 2003
- ▶ WAN equipment – ISDN terminal adapters, channel banks, CSU/DSUs, PBX/PABXs and WDM
- ▶ Networking equipment – routers, Ethernet switches, Ethernet firewalls
- ▶ Power control – all serially controlled power strips and UPS devices

A cost-effective tool to reduce network downtime and IT costs

With Dominion SX, you can:

- ▶ Optimize and troubleshoot networks via proactive event notification and data logs
- ▶ Restore network connectivity and server operation via network-independent direct serial or dial-up access
- ▶ Troubleshoot, maintain and manage remote locations 24/7 from a single location, minimizing travel
- ▶ Choose from a broad range of models to meet your needs
- ▶ Leverage the IT industry's highest serial console port density in a 1U unit

Simple

- ▶ Easy and convenient access via SSH/Telnet or Web browser
- ▶ Easy system administration with customized TCL scripting for remote monitoring and event notification
- ▶ Plug-and-play setup with no complicated client software

Secure and highly available

- ▶ Encrypts all communications via 128-bit SSL with RC4 encryption or SSHv2
- ▶ Provides common authentication and authorization for all local and remote users and administrators
- ▶ Available with dual, load-sharing, power supplies and redundant network interface cards

Anytime, anywhere access and control

- Prevents unauthorized or inadvertent adds, changes and deletes, and does not allow access to the console server's operating system
- Supports user-defined security certificates
- Provides IP Access Control Lists (ACL) that grant or restrict access from certain IP addresses

Scalable

- Supports up to 100 users on a single box
- Scales up to 10,000 devices when deployed in conjunction with Raritan's CommandCenter® Secure Gateway

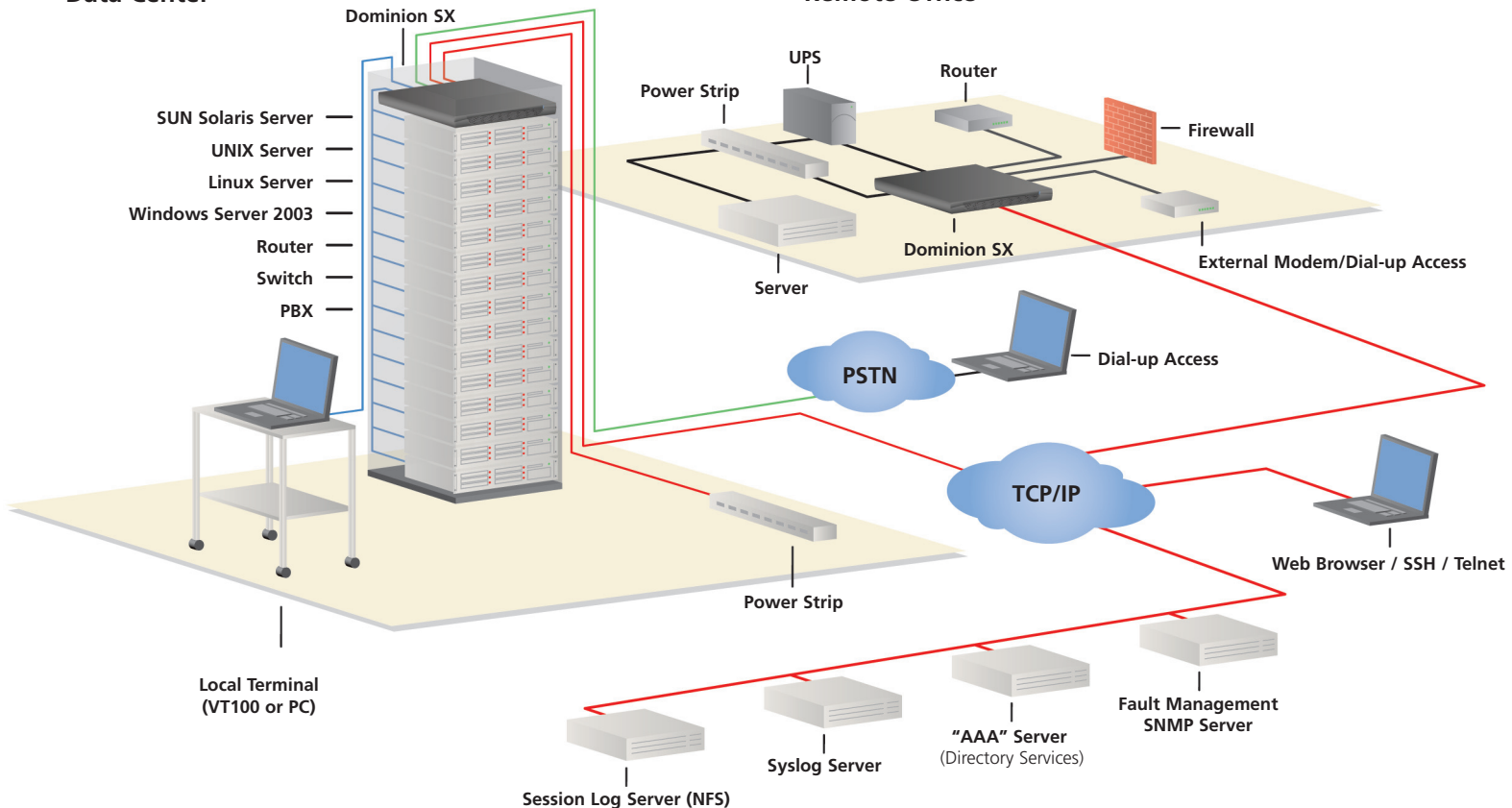
Feature highlights

- SSH, Telnet or Web browser for remote access
- Standard built-in modem on select models
- RADIUS, LDAP, LDAP(S), TACACS+ and Microsoft Active Directory® support

- One or two local console ports, for "crash-cart" access
- Secure appliance - no user access to operating system
- Local and remote buffering/logging
- Centralized management - when integrated with Raritan CommandCenter Secure Gateway, thousands of Dominion SX devices can be managed with centralized authentication and authorization, using one IP address
- Industry's broadest range of supported browsers
- SecureChat allows up to 10 users per port to collaborate with 128-bit SSL encryption
- VT100/ANSI emulation with dynamic font resizing
- Windows Server 2003 EMS support
- Raritan Power Control unit managed via GUI or CLI
- Modem call-back security with Linux and Windows 2000/XP
- Basic network installation via VT100 terminal/equivalent or Ethernet

Data Center

Remote Office



Secure console level management and cold-start power

Applications

- Remote console management (remote/branch office)
- Server and network management

Security and authentication

- Up-to-date SSHv2 and SSL
- SSL with 128-bit RC4 encryption/SSHv2
- User ID and password
- Support for different types of users with different privileges - administrators, operators and observers
- Authenticates and authorizes at port level
- Primary and secondary RADIUS, TACACS+, LDAP(S), or Active Directory servers with failover
- User-defined/installable SSL security certificates
- Global Access Control List (ACL)
- SecureID support
- Modem call-back with Linux and Windows 2000/XP

Console management

- Multiple concurrent browser/Telnet/SSH sessions per user
- HTTP/HTTPS (Java-enabled browsers: Netscape® 7.0+, Mozilla® 1.5+, Mozilla Firefox, Internet Explorer 6.0+ with Sun Java)
- Simultaneous access on the same port (port sharing)
- Port sharing between SSH and Web SSL users

- Multiple (up to 10) users per port
- SecureChat instant messaging between SSL users
- Session timeout for improved security
- Copy and paste session information among different ports
- Windows Server 2003 EMS support
- Solaris Ready™ certified (Sun "break safe")
- Break-over-SSH support for Sun Solaris
- Session logging to NFS Server (all key strokes)
- Per-port independent offline port buffering

Management

- Command line interface (SSH/Telnet)
- Web management interface (HTTPS)
- Event notification via e-mail (SMTP)
- SNMP traps
- NTP support (primary and secondary servers)
- Syslog (primary and secondary servers)
- Firmware upgrade via FTP using GUI
- Diagnostic commands to aid in troubleshooting connection problems
- Backup/restore device configurations using FTP server
- Centralized firmware upgrades and backup/restore of devices when used with CommandCenter Secure Gateway

Operating system

High degree of reliability: Uses an internal, embedded, hardened Linux OS, which does not require maintenance and does not offer any access.

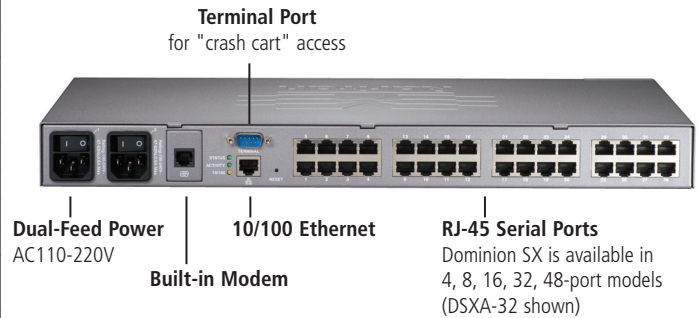
**When you're ready to take control,
do it with Dominion SX.**

Raritan Computer, Inc. is a leading supplier of solutions for managing IT infrastructure equipment, such as servers and networking hardware 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 control millions of servers 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 KVM and remote connectivity products offers IT professionals the most reliable, flexible and secure in-band and out-of-band solutions to manage data center equipment, applications and services, while improving operational productivity. More information on the company is available at Raritan.com.

Specifications

All Dominion SX models

Form factor	1U, rack mountable (brackets included on DSX16, DSX32 and DSX48)
Power	110/220V auto-switching: 50-60 Hz; 36-72V DC
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
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
Warranty	Two Years with Advanced Replacement*



Dominion SX Models	Ports	Built-in Modem	Local Ports	Ethernet Ports	Power Supply	Dimensions - (WxDxH)	Weight
DSX4	4	No	2	1	Single-AC	11.34" x 10.7" x 1.75"; 288 x 270 x 44mm	4.61 lbs; 2.08kg
DSXB-4-M	4	Yes	1	1	Single-AC	11.34" x 10.7" x 1.75"; 288 x 270 x 44mm	4.61 lbs; 2.08kg
DSXB-4-DC	4	Yes	2	1	Single-DC	11.34" x 10.7" x 1.75"; 288 x 270 x 44mm	4.61 lbs; 2.08kg
DSXB-4-DCM	4	Yes	1	1	Single-DC	11.34" x 10.7" x 1.75"; 288 x 270 x 44mm	4.81 lbs; 2.17kg
DSX8	8	No	1	1	Single-AC	11.34" x 10.7" x 1.75"; 288 x 270 x 44mm	4.81 lbs; 2.17kg
DSXA-8	8	Yes	1	1	Dual-AC	11.34" x 10.7" x 1.75"; 288 x 270 x 44mm	4.81 lbs; 2.17kg
DSXB-8-M	8	Yes	1	1	Single-AC	11.34" x 10.7" x 1.75"; 288 x 270 x 44mm	4.81 lbs; 2.17kg
DSXB-8-DC	8	No	2	1	Single-DC	11.34" x 10.7" x 1.75"; 288 x 270 x 44mm	4.81 lbs; 2.17kg
DSXB-8-DCM	8	Yes	1	1	Single-DC	11.34" x 10.7" x 1.75"; 288 x 270 x 44mm	5.0 lbs; 2.17kg
DSX16	16	Yes	1	1	Single-AC	17.25" x 11.34" x 1.75"; 438 x 288 x 44mm	9.61 lbs; 4.35kg
DSXA-16	16	Yes	1	1	Dual-AC	17.25" x 11.34" x 1.75"; 438 x 288 x 44mm	9.61 lbs; 4.35kg
DSXA-16-DC	16	Yes	1	1	Single-DC	17.32" x 11.41" x 1.75"; 440 x 290 x 44mm	8.2 lbs; 3.75kg
DSXA-16-DL	16	No	2	2	Dual-AC	17.25" x 11.34" x 1.75"; 438 x 288 x 44mm	8.8 lbs; 3.99kg
DSXA-16-DLM	16	Yes	1	2	Dual-AC	17.25" x 11.34" x 1.75"; 438 x 288 x 44mm	8.8 lbs; 3.99kg
DSX32	32	Yes	1	1	Single-AC	17.25" x 11.34" x 1.75"; 438 x 288 x 44mm	10 lbs; 4.53kg
DSXA-32	32	Yes	1	1	Dual-AC	17.25" x 11.34" x 1.75"; 438 x 288 x 44mm	8.7 lbs; 3.98kg
DSXA-32-AC	32	No	2	1	Dual-AC	17.25" x 11.34" x 1.75"; 438 x 288 x 44mm	8.7 lbs; 3.98kg
DSXA-32-DC	32	Yes	1	1	Dual-DC	17.32" x 11.41" x 1.75"; 440 x 290 x 44mm	8.5 lbs; 3.8kg
DSXA-32-DL	32	No	2	2	Dual-AC	17.25" x 11.34" x 1.75"; 438 x 288 x 44mm	8.9 lbs; 4.03kg
DSXA-32-DLM	32	Yes	1	2	Dual-AC	17.25" x 11.34" x 1.75"; 438 x 288 x 44mm	8.9 lbs; 4.03kg
DSXA-48	48	Yes	1	2	Dual-AC	17.32" x 11.41" x 1.75"; 440 x 290 x 44mm	8.7 lbs; 3.98kg
DSXA-48-AC	48	No	2	2	Dual-AC	17.32" x 11.41" x 1.75"; 440 x 290 x 44mm	8.7 lbs; 3.98kg
DSXA-48-DC	48	Yes	1	2	Dual-DC	17.32" x 11.41" x 1.75"; 440 x 290 x 44mm	8.9 lbs; 4.04kg

Cables/Adapters/Brackets

Part number	Description
ASCSD9F	RJ-45(F) to DB9(F) serial adapter
ASCSD9M	RJ-45(F) to DB9(M) serial adapter
ASCSD25F	RJ-45(F) to DB25(F) serial adapter
ASCSD25M	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

Part number	Description
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

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