Dominion® SX

Features	Benefits
Flexibility	
Wide variety of supported models	Offering the highest port density (48-ports) in the market in 1U rack unit. Variety of power options, including dual-feed load-sharing power supplies with zero failover time. Choice of one or two 10/100 Base-T Ethernet ports with intelligent automatic failover. Models are available with or without built-in modem, and with one or two “at the rack” serial ports for local access. Models available in 4-48 ports. Dual-power supply options in most 8-48 port models.
Increased Memory on 8-, 16-, 32- & 48-port models	Port buffer has been increased from 65KB to 256KB which allows expanded logging storage of local events and alerts from 20 pages of content to 80 pages of content. Users now will be sure to have any events that have occurred while they are not connected to the device.
1U Form Factor	Small form-factor saves rack and/or closet space and makes it perfect for remote offices where space is limited. Rack-mount brackets included for all DSX16-48 port models; optional on all DSX4 and DSX8 port models, except the DSXA-8 dual-power which comes with a rack-mount kit.
International Language Support	The Raritan Serial Console can support four languages: English, Japanese, Korean and Chinese
Reliability	
Intelligent Auto-Failover on Dual-LAN models	On all dual-LAN models, the administrator can enable failover to the second LAN port. One or two IP addresses may be used. Either LAN connection can be used as the access port to the Dominion SX.
Cross-platform and Hardware Independent	Allows the connection of multiple disparate servers running SUN® Solaris™, HP-UX, AIX, Linux®, Windows® Server 2003, and UNIX®-based servers as well as multiple serial devices to a single Dominion SX – making it perfect for situations where a range of equipment is needed, which is common in remote locations.

Features	Benefits
AC and DC Power Options	Integrated power supply ensures proper power provision and system reliability. • AC Power: 100-240VAC auto-switching available on all port models • Auto-Switching DC Power: -36-72V DC, available in 32 and 48 port models
No moving parts – higher reliability	No fans or other moving parts to fail means higher reliability. Cooler running units mean lower heat dissipation and lower power consumption.
*Integrated 56K Modem via RJ11 connection available**	Provides emergency access in the event of a network outage. This capability enables an administrator to access server and network equipment for trouble shooting/disaster recovery. Integrated modem provides a very clean installation and removes the need for an external modem/cabling and power or a separate remote access server, flimsy PCMCIA slot modem cards, local authentication software, and thus minimizing the potential points of failure.
Security	
Fully featured firewall	User selectable and customizable system security levels catering to wide range of user needs for security. Enhancements to the firewall – added pre- and post-routing and Static NAT (SNAT) support
Man In The Middle (MITM) attack mitigation	Enhanced security of communication channels by using client and server SSL certificates.
Selective Static Routing Support	Supports connections between modem and LAN1, modem and LAN 2 or LAN 1 and LAN 2. This allows users to utilize two different network (Public and Private) and modem access to KVM or Ethernet controlled devices. When used with the firewall function, secure access will be enabled.
TCP Port Addressing for Telnet and SSHv2	Direct Port Addressing can function with TCP port addressing for both Telnet and SSH. Independent IP addresses or TCP port numbers can be assigned to each port for Direct Port Access. Com Port Redirection can be supported for third-party software redirectors.
Local User Groups	Allows flexibility of assigning user permission per SX with the use of local groups. Now the Authentication server can send back the group after it authenticates and permissions can be determined locally.
Flexible strong password support	Offers user-selectable password parameters to satisfy a wide range of password security levels.
Customizable login & consent banner	Improved security with audit option during identification and authorization.
Rejecting access attempts using SSHv1	Due to the many known security vulnerabilities of the SSHv1 protocol, SSHv1, connections will be automatically rejected by the Dominion SX.

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Enhanced Encryption Options	Support more encryption options: web-browser security through 128-bit SSL and RC4 encryption; for SSHv2 connections, AES and 3DES are supported (client-dependent).
Authentication and Authorization Support - Kerberos	Support provided for the RADIUS, LDAP, TACACS+, Kerberos V.5 and Active Directory®; Primary and secondary servers are supported.
Login Name and Password never stored in clear text	Sensitive information is MD5 hashed for storage on the unit.
User Defined and Installable Security Certificates	Dominion SX includes user authentication security and user-defined and installable security certificates. Use with Active Directory and LDAPS for secure communication. Both client and server certificates are supported.
SecureID Support	SecureID is supported via RADIUS for added security.
Target server disconnection option	Once a user is timed out for inactivity, a user defined logoff command is sent to the target. Improved security of user sessions results as the next user that connects to the port will need to login to the target with their own credentials. Some users may know this capability as an exit macro.
Modem dial-back Security	For enhanced security, Dominion SX supports modem dial-back with Linux®, and Windows 2000/XP clients.
Disabling Authentication and Authorization	This option saves user time when accessing SX in data center where security is provided through other means. User does not need to type in user name and password.
Disable Local Authentication Option	This option allows for enhanced security where required by security policy, ensuring that a single directory service is used for all users.
End User Experience	
HTML Implementation	Reduces the time to load the Java applet in a browser implementation to less than one minute.
Full Modern CLI – GUI Equivalence	Improved usability, with command completion and history. CLI admin has the same functionality as the GUI, thereby allowing scripting of any command.
Broad Range of Supported Browsers	Offers broad range of browsers – Netscape®7.0+, Mozilla® 1.5+, Mozilla Firefox, Internet Explorer 6.0+; ensuring compatibility with the wide variety of operating systems and devices.
Single Appliance – Higher Security and No Additional Software Required	Appliance model offer enhanced security with no user access to underlying Linux OS of the console server. Provides true 'Plug and Play' capability making installation and set-up quick and easy. No additional client/host software or hardware to buy and no special networking equipment or design is necessary. When using a Java-enabled web-browser, there is no need for expensive SSH client software, and it reduces the need to manage additional client software.

Features	Benefits
Manageability	
Easy to Install	Installation in less than 3 minutes, with just a web browser or a VT100 terminal (or equivalent). Some competitive products require burdensome editing of multiple files to complete a basic installation.
IPMI support	Improved system performance monitoring and management. Allows for discovery and management of IPMI enabled servers.
Port Keyword Monitor and Alert	Also sometimes called “port triggers”. Users can define up to 14 keywords per port with up to 40 characters each. The SX will scan the data coming from the port and if a keyword is encountered it will send alerts via SNMP or e-mail to predefined addresses. This allows monitoring and alerting of problems with the targets even when the user is not attached, thereby reducing Mean Time to Repair (MTTR), and faster notification of a problem than by traditional SNMP monitoring systems.
Access via WebBrowser/SSHv2/Telnet	Easy point-and-click access via a Java-enabled Web browser, and SSHv2/Telnet client from a desktop, laptop, or handheld device.
VT100/220/320/ANSI support	Increased choice of terminal emulation options, allows support of a broader range of devices. SX 3.1 can support the following code-sets: US-ASCII (ISO 646); ISO 8859-1 (Latin-1); ISO 8859-15 (Latin-9); UTF-8
SecureChat Instant Messaging	Allows encrypted instant messaging for online collaboration with other authorized web-browser users and maximizes the contribution and effectiveness of a distributed workforce. This feature reduces the time to resolve problems, and allows multiple administrators to troubleshoot a problem. This feature can also be used for training purposes.
Comprehensive SNMP Traps	Enhancements in SMTP notifications –persistent attempts (automatic retries) to send SMTP notifications and support for mail server authentication.
Syslog	Supports Syslog to multiple servers, allowing administrators to track activity; logs can also be stored locally on the unit.
NFS Logging	Allows logging of all keystrokes and server/device responses to NFS server(s). Primarily used for audit trails. NFS logging can now be stored on the NFS server with user-defined encryption keys for greater security. Thus if there is an intrusion into the file, the data will be useless without the key under which it was encrypted. Keep-alive messages in the NFS log allow easy monitoring if the managed server/device goes down.
Integrated 56K Modem via RJ11 connection available for out of band emergency access	Provides emergency access in the event of a network outage. This capability enables an administrator to access server and network equipment for trouble shooting/disaster recovery. Integrated modem provides a clean installation and removes the need for an external modem/cabling and power. Unlike a separate remote access server, flimsy PCMCIA slot modem cards, and software solutions, the integrated modem, available on select models, minimizes potential points of failure.

Features	Benefits
CLI Power Control Support of Raritan's Remote Power Control Strips	A Raritan power control unit (RPC/Dominion PX) can be connected to each serial port on a Dominion SX. Customers can also control RPCU without a GUI, through scripting and the command line interface (CLI). NEW: Outlet associations for servers and networking devices with multiple power feeds, from one power distribution unit or multiple power distribution units.

Integration with CommandCenter® Secure Gateway	
Extensible	When deployed with CommandCenter Secure Gateway, thousands of Dominion SX devices can be managed with centralized authentication and authorization.
Firmware Upgradeable via Network Connection or CommandCenter Secure Gateway	Simplifies the deployment of firmware updates via CommandCenter Secure Gateway. Adminitrator can schedule firmware upgrades for single or multiple SX devices.
GUI Power Control Support via CommandCenter Secure Gateway of Raritan's Remote Power Control Strips	Raritan power control units (RPCU) can be connected to each serial port on a Dominion SX. For servers/equipment that have multiple power feeds, multiple power outlets can be associated together to switch equipment on or off with a single click of the mouse.
Single IP Address for Administration and target connection	Administrators and users can connect to one IP address with one login via CommandCenter Secure Gateway to manage the SX or the targets. This connection can be via browser or through SSH. Only Raritan allows direct SSH connection to the aggregator.