

Features

- Multi-functional Security
- Secure web-based GUI & CLI
- Graphical User Interface
- VLANs, IGMP Snooping
- OEM Customization
- Supports Fault-tolerant STP, RSTP, LLL, and S-Ring



Magnum™ Managed Networks Software (MNS), combined with a Magnum 6K-Series Switch, provides flexibility, power, and efficiency in a managed Ethernet platform. MNS-6K-SECURE provides premium security capabilities for environments demanding extra security. A full range of industry-standard software functions in the MNS-6K software product line enables the versatile Magnum 6K Switches to perform efficiently in a wide range of managed LAN applications, including redundant topologies.

Use of the Internet and high performance software applications continues to grow at a rapid pace. Factory automation, industrial control, video streaming, database queries, communications systems, and file transfers all place a premium on performance, reliability and security. Today's managed networks need quick response times with trusted services when delivering and receiving data.

Magnum 6K Switches can be configured to include a user-selected mix of 10/100 Mb copper, 10/100/1000Mb copper, 10 Mb and 100 Mb fiber, and Gigabit (1000 Mb) fiber Ethernet segments. With MNS-6K, network managers are able to manage their traffic and control their network operations for security, fault-tolerance, and performance.

MNS-6K-SECURE Release 14.1.14 incorporates all of the features of MNS-6K basic software Release 4.1.14, and adds the following additional features:

- RADIUS IEEE 802.1x for controlling access to the network
- TACACS+ for securing log-in to configure devices
- Secure FTP for secure file upload and download – including configuration information
- Additional managers and users which can be setup locally
- Support for up to 256 VLANs
- Multi-level priorities (4 levels) for packets
- Syslog capabilities for logging events and consolidating logs
- SNTP Server to synchronize time across multiple network devices for applications such as event logs, Syslog, video time stamping, etc...
- DHCP client and DHCP server to control and allocate IP addresses
- Remote access using SSH and SSL for secure Web access
- Granular control of which users can see and modify specific groups of commands
- DNS client capabilities so logical names can be used instead of IP address to specify a host
- Access to the switch can be controlled via access rules, forcing secure access or access from certain portions of the network
- Welcome message, which can be modified by network managers to thwart trespassers on the devices
- TFTP server to easily update other switches in the network



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RADIUS IEEE 802.1x

For network access control, RADIUS provides a means of authenticating and authorizing or preventing users and devices attempting to attach to LAN ports, providing secure access to a network.

TACACS+ (Terminal Access Controller Access Control System)

Provides access control for networked devices including switches with MNS-6K-SECURE. TACACS+ provides a centralized means to control which users can access which device on the network.

Remote Access Security

Remote access via SNMP, web (HTTP) and Telnet can be controlled by administrators of MNS-6K-SECURE. Authorized IP addresses can access the switch, providing additional remote access security beyond traditional capabilities.

QoS, IEEE 802.1p

MNS-6K-SECURE supports packet prioritization (QoS) per port, TAG, MAC address and IP address.

Syslog

Compliant to RFC 3164, Syslog allows the logs from 6K switches to be consolidated to centralized servers. These logs can be analyzed by system administrators for suspicious activity on the network.

SSH

Like Telnet, SSH enables access to the MNS-6K-SECURE console functions for a remote user, encrypting all the information transmitted, thus eliminating sensitive information (such as passwords) being transmitted in clear text.

SNTP

Supports 6K as a time source for network devices to synchronize time across multiple devices. Simplifies time synchronization for video servers used in surveillance, as well as Syslog, event log, and other general time-stamped data.

Secure FTP

Allows upload and download of configurations and scripts to be encrypted with secure certification from a Secure FTP Server.

Additional VLAN support

MNS-6K-SECURE supports up to 256 VLANs, allowing granular security access

Multi-Level priorities

MNS-6K-SECURE supports 4-levels of priority for marking and prioritization of packets according to the DiffServ standard, as implemented in Magnum 6K switches hardware for 10/100 ports

DNS Client

Allows MNS-6K-SECURE users to access other devices using logical names instead of IP addresses. Avoiding explicit IP address information prevents spoofing attacks, thus providing additional security.

TFTP Server

An MNS-6K-SECURE switch can be a TFTP Server in the network, thus providing services to update software and other information like host names and host IP addresses. This allows managers to easily update switches to the latest software.

DHCP Server

An MNS-6K-SECURE switch can provide IP addresses to devices requesting that information via DHCP. This allows system managers insight into devices on the network and eases deploying and controlling devices. DHCP server implementation based on RFC2131.

Granular control of configuration access

Like multi-level login, users of MNS-6K-SECURE can control what groups of information are visible to users. This provides an added layer of security. MNS-6K-SECURE users have the option to set the User Privileges for modules and commands.

Additional users

MNS-6K-SECURE provides capabilities to add up to twenty users, thus avoiding password sharing among users.

Welcome Message (Message of the Day (MOTD))

MNS-6K-SECURE allows system administrators to modify the welcome screen, providing an additional deterrent against abusive users.

IPv6 and IPv4 stacks support

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Ordering Information

MNS-6K-SECURE-LIC1 MNS-6K-SECURE, key-enabled licensed software for use on Magnum 6K Switches. "LIC1" is a license for use on one 6K Switch base unit.

Features include all of those in MNS-6K basic software (see www.garrettcom.com/techsupport/software/datasheets/mns6kds.pdf), plus those features shown above in this datasheet.



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