

# Managed Networks Software for Magnum 6K Switches

## MNS-6K

Magnum Managed Networks Software (MNS), combined with a Magnum 6K-Series Switch, provides flexibility, power and efficiency in a managed Ethernet platform.



**Security:** Provides premium security capabilities for environments demanding extra security



**Redundancy:** Enables versatile functionality in a wide range of managed LAN applications, including redundant technologies



**Performance:** Manage traffic and control network operations for security, fault-tolerance and performance

## Key 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
- RADIUS IEEE 802.1x for controlling access to the network
- Secure FTP for secure file upload and download – including configuration information
- Support for up to 256 VLANs
- SNTP Server to synchronize time across multiple network devices for applications such as event logs, syslog, video time stamping, etc.
- Granular control of which users can see and modify specific groups of commands



## Benefits

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.

## Applications

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.

MNS-6K Software, along with the MNS-6K-SECURE License, provides state-of-the-art security for critical applications. These include SNMPv3, HTTPS and SSH for secure access, Port Security to drop or disable unwanted MAC addresses, RADIUS IEEE 802.1x and TACACS+ for remote authentication and multi-level login and User Privileges.

Redundancy is key to ensure availability of network at all times. MNS-6K software provides ring redundancy through STP IEEE 802.1d, RSTP-2004 IEEE 802.1w and Link-Loss-Learn (LLL) for rapid re-configuration and fast fault recovery. LACP 802.3ad for link aggregation for load balancing.

Magnum MNS-6K enables several ease-of-use features with an intuitive Graphical User Interface (GUI), simple installation through DHCP server and client, DNS client and file transfer applications including SFTP and TFTP. Network troubleshooting capabilities such as RMON, Port Mirroring, Syslog and Event logs allow system administrators look for suspicious activity on the network. Switch can also provide timing to end devices using SNTP and PTP.

Support for up to 256 VLANs (port and tag based with GVRP), QoS, IEEE 802.1p, IPv4 and IPv6, port control settings and Broadcast Port Rate Limiting enable user create efficient and effective network segmentations. Multicast control protocols such as IGMP allow precise control over industrial applications and video surveillance systems.

## Markets

MNS-6K was developed specifically to meet the requirements of industrial networks for applications such as automotive production, transportation, and power transmission and distribution.

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