



## ***N-TRON*** Advanced Management Features

Several advanced management features are offered as an optional item on the **500-A Series**, and as a standard item on the **7000** and **9000 Series** Switches. The **500-A** Switches are configured using the serial COM port, and the **7000** and **9000** Switches are configured using a Web Browser, Telnet or COM port. Must order -A option with 500 Series Switches to get advanced management features.

**IGMP Snooping** - Internet Group Management Protocol is a feature that allows the IGMP capable switches to forward multicast traffic based on learned group addresses. IGMP and query auto detect modes are enabled by default, and key enhancements include dynamic router discovery and master/slave redundancy for query detection. These features allow for the automatic detection of bi-directional router ports needed for the seamless formation of IGMP groups across multiple switches in an **N-TRON** network, and will reduce or eliminate the Command Line Interface switch configuration requirements for most Ethernet control networks.

**VLAN** - Virtual Local Area Network allows the segmentation of the switch in order to create two or more separate or overlapping local area network domains. The Industrial Ethernet switches with the advanced management features, can be setup for IEEE 802.1Q dynamic tagged VLAN, or pre-determined port VLAN.

**QoS** - The Quality of Service feature provides prioritization of network traffic in order to provide better network service. The primary goal of QoS is to improve the latency of prioritized Ethernet packets required for ring management, real-time and other interactive applications.

**Trunking** - Also known as link aggregation, enables multiple physical ports to be linked together and function as one uplink to another Trunking capable switch configured in the same manner. The Trunking feature will increase the bandwidth between two switches and will also provide media redundancy.

**Port Mirroring** - This function allows the traffic on one port to be duplicated and sent to a designated mirror port. Port mirroring can be used to monitor Ethernet traffic on the designated source port using the assigned mirror port.

**Port Control** - **N-TRON** Switch ports may be individually configured for full or half duplex, 10Mb/s or 100Mb/s, and can be enabled or disabled.

**Rapid Spanning Tree** - This feature permits the **7000** or **9000 Series** switches to be configured in a Ring or Mesh topology, and provides support for redundant path communications with rapid healing.