# Top 10 Reasons to Use Hirschmann Managed Ethernet Switches

1.  **Robust – designed for maximum network availability**:  The best switches available for "mission critical" networking applications.  Long life (typical MTBF of 30+ years), fan-less (or quad-redundant fans), redundant power, wide temperature range (0 – 60°C standard, -40 – 70°C available). DIN rail or 19" rack mounting available.

2.  **Consistent/Easy-To-Use Interface**: Built-in web interface simplifies configuration and monitoring of switches – the GUI interface eliminates the need to memorize commands.  Use the same interface to configure a 4-port DIN rail switch, a 18-port DIN rail gigabit switch, a 26-port 19" rack switch, or a 52-port 19" rack router. Remote access is secure with password protection (read/write & read only). Configuration via SNMP and command line interface (CLI) is also provided.  See the Quick Start Guide and online switch demo available at *www.ethernetsafari.com.*



*Screenshot of web interface and several "mission critical" industrial Ethernet switches*

3.  **Fast Replacement**: Very fast switch replacement, copy-cat, and/or configuration archival using USB "thumb" drive (plug USB drive into switch and then power up the switch – the configuration and IP address are automatically loaded and saved to non-volatile memory).  This makes it easy for maintenance personnel to replace a switch regardless of how many parameters are configured in the switch – no computer required.

4.  **IT-Compatible**: Fully IT-compatible managed switch functionality with SNMP and RMON; compatible with industry standard network management tools and other brands of switches.  Proven interoperability with Cisco switches & routers.

5.  **Media Redundancy Options**: HiperRing allows simplified redundant network topologies which will recover from media failure within 50 ms (gigabit ring) or 300 ms (100Mbit ring) – no software configuration is required.  RSTP (Rapid Spanning Tree) and trunking/link aggregation redundancy is also available.

6.  **EtherNet/IP PLC Monitoring**: Configure and monitor your Ethernet switch from within Allen-Bradley's RSLogix 5000 software (e.g. CompactLogix and ControlLogix).  "Add-in instruction" functionality is supported to allow you access to the switches' parameters which can then be monitored and displayed.  For example, "over temperature", "lost redundancy", "link status", and "security violation" could all be displayed on a PanelView Plus or other HMI. Download sample files for RSLogix 5000 and RSView Studio at *ftp://ftp.hirschmann-usa.com/ethernetip.*

7.  **Fault Contact**: A configurable fault contact located on power terminal block can provide indication of lost power supply, lost link, lost redundancy, temperature out of limits, etc.  This fault contact could be connected to a PLC input, pilot light, or horn.  The modular MICE switches include two independently configurable fault contacts.

8.  **Broad Product Line**: Managed and unmanaged switches (4 – 52 ports), compact or modular configurations, layer 3 routers, media converters, industrial or workgroup features, wireless, security, and network management software (SNMP & OPC).  Extensive customization of unmanaged and managed switches (over 1000 configurations available). Copper and fiber gigabit ports are available on 10, 18, 26, 28, and 52 port switches (up to 48 gigabit ports available on one switch); 10Gbit is also available.

9.  **Network "Visualization"**: Industrial HiVision software allows for easy monitoring of the Ethernet network without IT knowledge.  Capable of monitoring and alarming redundant ring status, bandwidth utilization, availability, etc. of switches and other Ethernet devices (e.g., Servers, PLC, HMI, I/O, drives) on the network. Fast access to web interface by right-clicking on a device.

10. **Design Innovation**:  Continuous product introductions to meet expanding customer needs.  This includes gigabit, industrial profiles, software tools, form factors (e.g., IP67 Octopus switch), USB port built into switch, etc.