

## Management functions

**Basic Functions**

	Store and Forward Switching Mode	IEEE 802.3
	Manual and Dynamic IP Address Assignment	
Port-Settings	Auto-negotiation on / off	
	Port Speed 10 Mbit/s / 100 Mbit/s	
	Half / Full duplex	
	Port disable / enable	
	Link Up/Down Trap disable / enable	
	Flow Control disable / enable	
Network Discovery	Link Layer Discovery Protocol (LLDP)	802.1AB, 2005
PoE	Power over Ethernet Support *	IEEE 802.1af
Rate Control	Rate Control per port * (Broadcast, Multicast, Unicast)	
File Transfer	Firmware import and export via TFTP and HTTP	
	Configuration import and export via TFTP and HTTP	
Time Settings	Manual time setting	
	Simple Network Time Protocol (SNTP)	RFC 1305, 4330
User Management	Admin, Guest and Service Level	
Service	Service Mode via port 1	

**QoS**

	Quality of Service (QoS)	IEEE 802.1p
	DiffServ	RFC 2474, 2475

**VLAN**

	Port protocol based VLANs	IEEE 802.1Q Rev D5.0, 2005
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**Redundancy**

	Spanning Tree (STP)	IEEE 802.1D (2004)
	Rapid Spanning Tree (RSTP)	IEEE 802.1D (2004)

**Security**

	Port-Based Network Access Control *	802.1x (2004)
	Port Based Authentication with EAP	
	RADIUS Client *	RFC 2138
	IP authorized manager	

**Link Aggregation**

	Link Aggregation (LACP)	IEEE 802.3ad (2005)
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**Multicast**

	IGMP Snooping (v1, v2, v3) with support for querier	RFC 1112, 2236, 3376
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**DHCP**

	DHCP Client	RFC 2131
	DHCP relay agent	RFC 2131
	DHCP Option 82	RFC 3046

**Alarm**

	Alarms via E-mail (SMTP) and SNMP Traps	
	Signalling contact for low voltage detection or Link break	

Management functions

**Diagnostic**

	Port diagnostic	
	Port Mirroring	
	Switch History	
	MAC Address Table	
	RMON (1,2,3 & 9 groups) *	RFC 2819

**Management**

	Password protected Web-Management interface	
	SNMP (v1, v2c, v3) agent & MIB support	

\* ... available in software version 2.2 and higher

mCon 3000

mCon 4000  
mCon 9000

mCon 7000