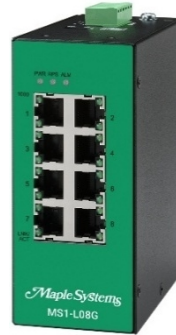




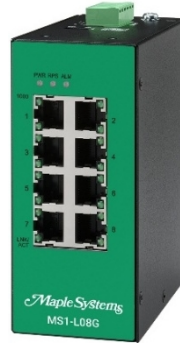
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- Advanced Network Reliability with ERPS v1/v2, and STP/RSTP
- Wide Input Voltage Range (24-48 VDC or 20-57 VDC)
- Redundant Power Option on All Models
- Traffic Control with 802.1p QoS/CoS



		Lite-Managed		Fully Managed
		MS1-L05G01F	MS1-L08G	MS1-M08G
Port Specifications	RJ45 Copper Ports	Five (5)	Eight (8)	
	RJ45 Speed	10/100/1000BASE-T		
	RJ45 Nominal Max. Distance	328 feet (100 meters)		
	SFP Ports	One (1) Mini-GBIC (SFP) with speeds of 100/1000Mbps	N/A	
	Fiber Port Connectors	LC	N/A	
	Optimal Fiber Transceiver	SX/LX/Bi-Directional	N/A	
	Optimal Copper Transceiver	100BASE-TX/ 1000BASE-T SFP	N/A	
	Wavelength (Bi-Directional)	1310nm/1490nm, 1310nm/1550nm, 1490nm/1550nm	N/A	
	Wavelength (Multi Mode)	850nm, 1300nm	N/A	
	Wavelength (Single Mode)	1310nm, 1550nm	N/A	
	Fiber Nominal Max. Distance	Dependent on cable type, and associated wavelength	N/A	
	Auto Negotiation & MDI/MDI-X	Supported		
Performance	Jumbo Frame Size	Supports up to 10k byte frames		
	MAC Table Size	Supports up to 8K entries		
	Throughput	14,880 pps to 10 Mbps Ethernet ports 148,800 pps to 100 Mbps Fast Ethernet ports 1,488,000 pps to 1000 Mbps Gigabit Ethernet ports		
	Switch Fabric	12 Gbps	16 Gbps	
	L2 Forwarding Rate	8.9 Mpps	11.9 Mpps	
	Packet Buffer	4.1Mbits		
Reliability	Code Redundancy	N/A	Dual Flash Memory	
	ERPS v1/v2	<50ms revive time		
	RSTP	~5-10 second revive time		
	STP	~30-50 second revive time		
	Dual Homing	N/A	Yes	
	LACP	N/A	Yes	
	MSTP	N/A	Yes	
	Static Trunk	N/A	Yes	



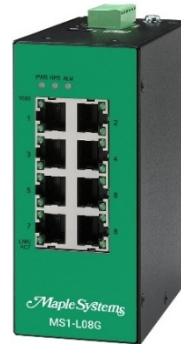
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		Lite-Managed		Fully Managed
		MS1-L05G01F	MS1-L08G	MS1-M08G
VLAN	802.1Q VLAN	Yes		256 active entries
	MAC-Based VLAN	N/A		Yes
	Management VLAN	N/A		Yes
	Port-Based VLAN	Port isolation (configurable)		
	QinQ	N/A		Yes
Traffic Control	802.1p QoS/CoS	Port Based (configurable)		Port and DSCP Based (configurable)
	QoS Queue	N/A		Schedule Mode (High First (SPQ), Weighted Round Robin (WRR), Weighted Fair Queueing (WFQ))
	Port Priority	Per port (configurable)		
	Loop Detection	Per port (configurable)		
	Port Isolation	Per port (configurable)		
	Storm Alarm Threshold	Per port (configurable)		
	Flow Control	Per port (configurable)		
	Storm Control	Per port (configurable)		
	VLAN Passthru	Supports up to 4094 VLAN IDs		
	LLDP Filter	Yes		
	Static Multicast Address	N/A		Yes
Standards	IEEE Compliance	802.3, 802.3u, 802.3ab, 802.3x, 802.3az, 802.1AB, 802.1D, 802.1w, 802.1p, 802.1Q, 802.1X		
		802.3z	N/A	802.1ad, 802.3ad 802.1s
Network Management Features	Installation Wizard	MapleLink-Lite		Not Supported on MapleLink
	Dashboard	MapleLink-Lite		Not Supported on MapleLink
	GUI	Connect over HTTP or HTTPs		
	CLI	Connect over Telnet or SSH		
	SNMP v1/v2c/v3	See Manual for supported MIBs		



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Lite-Managed

Fully Managed

MS1-L05G01F

MS1-L08G

MS1-M08G

Network Management Features (Continued)

	MS1-L05G01F	MS1-L08G	MS1-M08G
SNMP Trap	Yes		
Management VLAN (MVLAN)	Yes		
Firmware Upgradable	Remote or Onsite, Manual or Automatic		
Configuration Backup/Restore	Text-Based File, Remote or Onsite, Manual or Automatic		
Auto Provision	N/A		Supports TFTP, FTP, and HTTP protocols
Syslog	Yes		
SNTP	Yes		
LLDP	Yes		
DHCP Client	Obtain an IP via DHCP		
DHCP Relay	N/A		Yes
DHCP Option	N/A		Supports Option 82
Port Mirroring	Per port (configurable)		
Server (Service) Control	See Manual for Supported Servers (Services)		
Port Utilization	Yes		
Alarm Information	Yes		
Modbus TCP Client	Read only, See Manual for available function codes		
Power Down Trap	Yes		
Port Configuration	Enable/Disable, Speed/Duplex		
ONVIF	Yes		
Port Statistics	Yes		
Topology Map	LLDP Discovery, or Manual Registration for MapleLink/MapleLink-Lite		
Device Management	Supports IP-Cam, HMI, PLC, Switch, IPC, and PC		
Remote System Reboot	GUI/CLI		
User Account with Authority	Utilizing 802.1X		
TACACS+	N/A		Yes



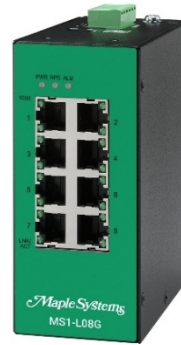
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		Lite-Managed		Fully Managed
		MS1-L05G01F	MS1-L08G	MS1-M08G
Security Features	ACL (Access Control List)	Yes		
	STP/RSTP	Configurable BPDU Filter, BPDU Guard, ROOT Guard		
	Port Security	MAC Limit		
	Port-Based 802.1X	Utilizing RADIUS		
	IGMP Snooping	Yes		
	Trusted Managed Host	Yes		
	DHCP Server Screening	N/A		Yes
	DHCP Snooping	N/A		Yes
	GUI	HTTPs		
	IP Source Guard	N/A		DHCP Snooping, DHCP Binding Table, ARP inspection
	MAC Search	N/A		Yes
	Managed Host	N/A		Yes
	Refusal MAC	N/A		Yes
	SNMPv3	Yes		
	CLI	SSH		
	Static MAC	N/A		Yes
	Sticky MAC	N/A		Yes
Power Details	Input Voltage - Primary	20-57 VDC		24-48 VDC
	Input Voltage - Redundant	20-57 VDC		24-48 VDC
	Input Connector	Terminal Block		
	Max Input Current	0.35A @ 24 VDC without alarm (1.35A @ 24VDC with alarm)		
	Max Power Consumption	10W		
	Reverse Polarity Protection	Yes		
	Overload Protection	Yes		
	Redundant Power System	Yes		

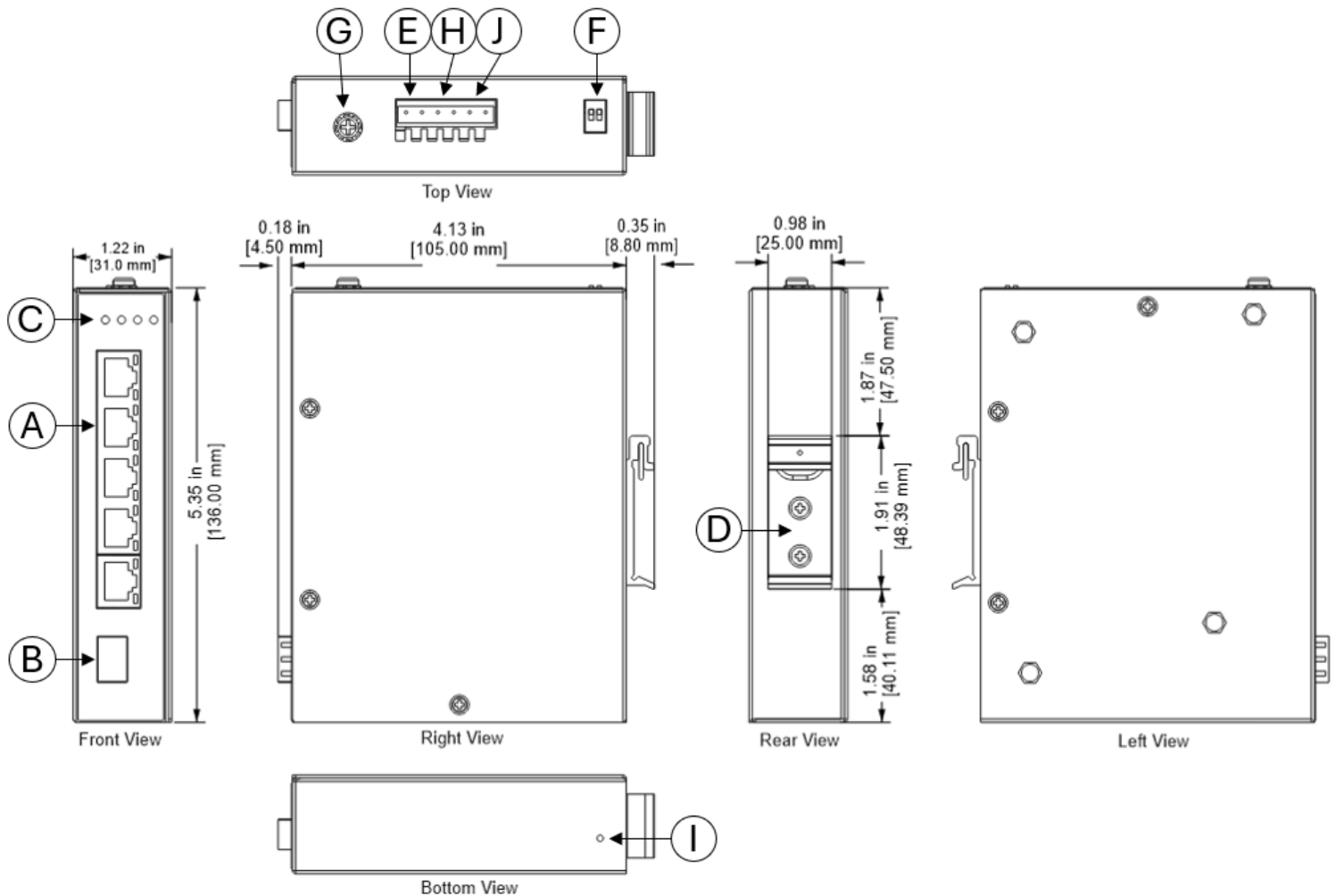


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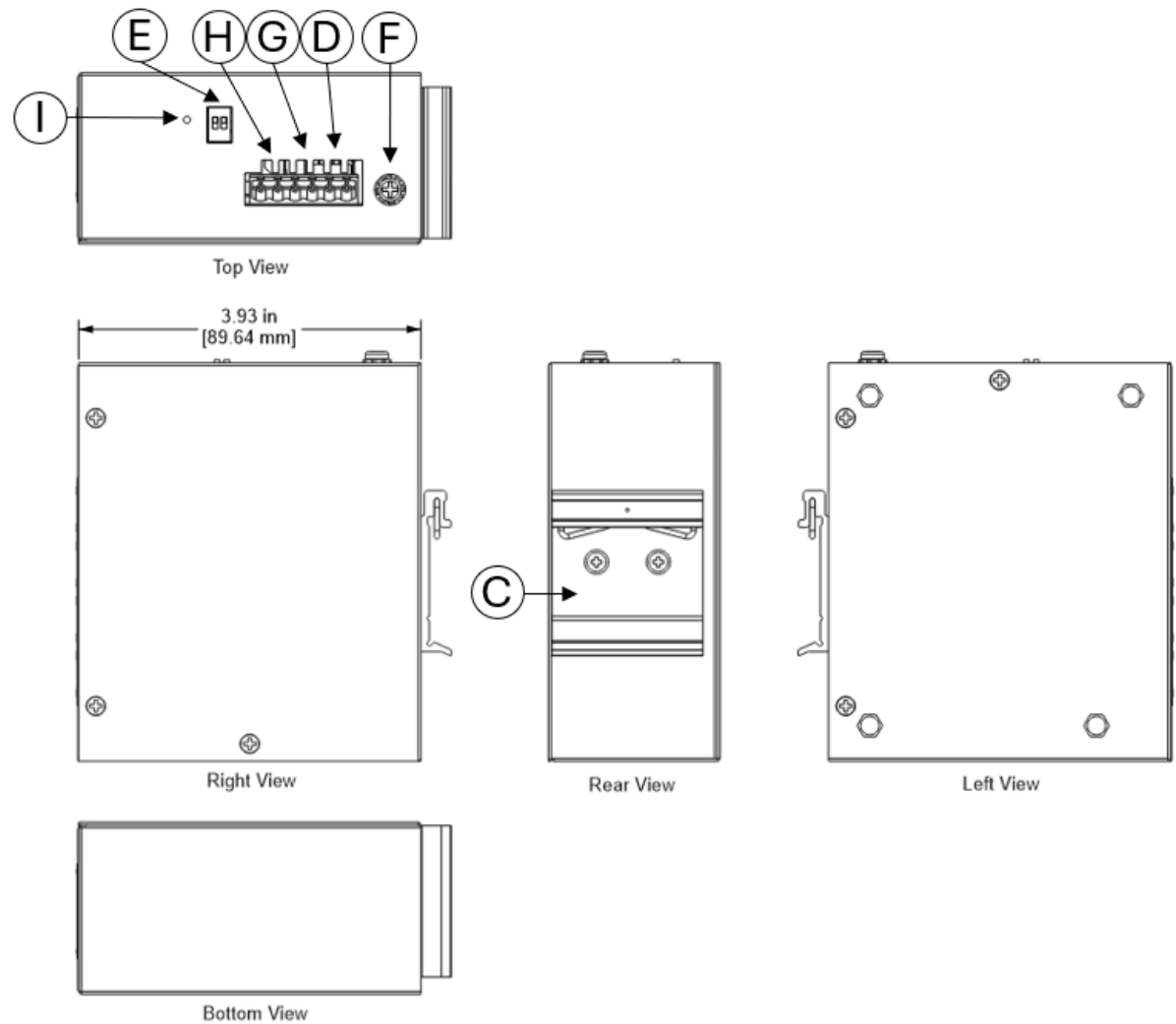
		Lite-Managed		Fully Managed
		MS1-L05G01F	MS1-L08G	MS1-M08G
Mechanical and Environmental	Enclosure Material	Black Powder-Coated Metal		
	Mounting	35 mm DIN Rail		
	Grounding Screw	M4-0.7mm x 6mm, pan head, No. 2 cross recess		
	Operating Temperature	14°F-140°F (-10°C-60°C)	-40°F-167°F (-40°C-75°C)	40°F-167°F (-40°C-75°C)
	Storage Temperature	-40°F-185°F (-40°C-85°C)		
	Operating Humidity	5 to 95% RH (non-condensing)		
	Storage Humidity	5 to 95% RH (non-condensing)		
	Net Weight	0.62 lb (280g)	1.10 lb (500g)	1.21 lb (550g)
	Dimensions (W x H x D)	1.22 x 5.35 x 4.31 in (31 x 136 x 109.5 mm)	1.97 x 4.56 x 3.93 in (50 x 116 x 100 mm)	1.96 x 4.56 x 3.93 in (50 x 116 x 100 mm)
	LED Panel	PWR, RPS, ALM, SFP, 1000, LNK/ACT	PWR, RPS, ALM, 1000, LNK/ACT	PWR, RPS, ALM, 1000, LNK/ACT
DIP Switches	Primary/Redundant Power Voltage Drop Alarm Setting			
Alarm Relay	1 Relay Output, 1A @ 24VDC			
Certifications / Ratings	Ingress Protection	IP30		
	Shock Test	IEC 60068-2-27		
	Freefall Test	IEC 60068-2-31		
	Vibration	IEC 60068-2-6		
	EMI / CE	FCC Part 15 Class A EN 55011 / BS EN 55011 Class A EN 55032 / BS EN 55032 Class A EN 61000-6-4 / BS EN 61000-6-4		
	EMS / CE	EN 55035 / BS EN 55035 EN 61000-6-2 / BS EN 61000-6-2 IEC 61000-4-2 (ESD) IEC 61000-4-3 (RS) IEC 61000-4-4 (Burst) IEC 61000-4-5 (Surge) EN 61000-4-6 (CS) IEC 61000-4-8 (PFMF)		
	UL®	N/A	cULus Listed	N/A
	RoHS	Compliant		
	FCC	Class A Compliant		
	Software	Network Management	MapleLink-Lite	MapleLink
Notes	Specifications subject to change without notice.			

MS1-L05G01F



- | | |
|---|----------------------------------|
| A | RJ45 Copper Port(s) |
| B | SFP Module Port(s) |
| C | Light Indicators |
| D | Din Rail |
| E | Power Input (Terminal Block) |
| F | DIP Switches |
| G | Grounding Screw (M4-0.7mm x 6mm) |
| H | Redundant Power Input |
| I | Reset Button |
| J | Alarm Relay |

MS1-L08G, MS1-M08G



- | | |
|---|----------------------------------|
| A | RJ45 Copper Port(s) |
| B | Light Indicators |
| C | Din Rail |
| D | Power Input (Terminal Block) |
| E | DIP Switches |
| F | Grounding Screw (M4-0.7mm x 6mm) |
| G | Redundant Power Input |
| H | Alarm Relay |
| I | Reset Button |