

TRACe-NET xM8P2G-1



EN50155 CERTIFIED INDUSTRIAL ETHERNET SWITCH

- ▶ Fast redundant ring (<10 ms over 250 connections)
- ▶ SNMP v1/v2c/v3 , STP/RSTP/MSTP, IGMP v2/v3, PTP client, LLDP protocol
- ▶ Traffic monitoring, SYSLOG, e-mail & relay fault notification
- ▶ Simple configuration using TRACe-NET view
- ▶ Dual redundant power supplies
- ▶ EN50155 Class Tx (-40°C to +70°C)

▶ PRODUCT OVERVIEW

The TRACe-NET xM8P2G-1 is an 8 PoE port fully managed Layer 2 industrial Ethernet switch with 2 Gigabit uplink ports designed for the onboard transport industry and has EN50155 approval.

The xM8P2G-1 has considerable flexibility with the extensive management facilities expected from a high performance switch. TRACe-NET Ring technology with its <10 ms recovery even when there are up to 250 switches, can give you unique protection against network interruptions or temporary malfunctions.

There is a set of bypass ports which allow the main network remain connected in the event of a local power failure.

The xM8P2G-1 can be configured using our TRACe-NET View browser and Windows utility, enabling you to manage and monitor all of the industrial switches on the network including making TRACe-NET switches compatible with other vendors proprietary redundant ring technologies.

The xM8P2G-1 is ideal for the transports environments with its dual redundant power supplies, configurable system, compatibility with other switches and its IP40 housing. In addition the wide temperature range from -40 to 70°C enables it to be used in a wide range of environments.

▶ TECHNICAL INFORMATION

PHYSICAL PORTS	8 x 10/100BASE-T, M12, Auto MDI/MDIX, PoE 2 x 10/100/1000BASE-T, M12 1 x RS-232 Serial console port Relay, M12
TECHNOLOGY Ethernet standards	IEEE 802.3 for 10BASE-T IEEE 802.3u for 100BASE-TX IEEE 802.3x for Flow Control IEEE 802.3ad for LACP IEEE 802.1D for STP IEEE 802.1p for COS (Class of Service) IEEE 802.Q for VLAN tagging IEEE 802.1w for RSTP IEEE 802.1s for MSTP IEEE 802.x for Authentication IEEE 802.1AB for LLDP
MAC table	8192 MAC addresses
Priority Queues	4
Processing	Store and Forward
Switching Latency	7 µs
Switching Bandwidth	5.6 Gbps
Max available VLANs	4096
IGMP Multicast groups	1024
Port rate limiting	User defined
Security features	Enable/Disable ports, Port based network access control, (802.1x), VLAN to segregate and secure network traffic, Q-in-Q VLAN for performance and security to expand VLAN, Radius centralised password management, SNMP v1/v2c/v3 encrypted authentication and access security
System Alarm	Syslog, SMPT, SNMP trap, relay
Software features	STP/RSTP/MSTP, TRACe-NET Ring (Recovery over 250 units in <10ms) TOS/Diffserv supported, QOS (802.1p) for real time traffic, VLAN (802.1Q) with VLAN tagging and GVRP, IGMP v2/v3 (snoothing support) for multicast filtering, Port configuration, status, statistics, monitoring, security, SNTP for synchronising clocks over the network, Support for PTP client clock synchronization, DHCP server/client support, Port trunk support, LLDP support, MVR (Multicast VLAN Registration) support, SNMP v1/v2c/v3 and private MBI support
Network redundancy	TRACe-NET Ring, TRACe-NET Open, Fast recovery, TRACe-NET -RSTP, STP, RSTP, MSTP

TECHNOLOGY Warning/monitoring	SYSLOG server/client, Relay output, SMTP event warning via e-mail, Event selection support
M12 CONSOLE PORT	RS-232, Port settings : 9600 bps,8,N,1
LED INDICATORS	2x Power Green LED, Fault Amber LED, Port link/activity Green LED, PoE activity Green LED, Duplex/Collision Amber LED, Ring Master Green LED (TRACe-NET Master mode), Ring indicator (TRACe-NET Ring mode), 10/100BASE-T link/activity Green LED, 10/100BASE-T Duplex/Collision Amber LED
RELAY	Power fault indication, 3A at 24 VDC
POWER DC inputs	Redundant Input Power : Dual DC inputs on M23 connector ▶ 2x 24-48 VDC: LM8P2G-1 variant ▶ 2x 48 VDC: DM8P2G-1 variant ▶ 2x 72-110 VDC: HM8P2G-1 variant
Consumption	9 Watts (excluding PoE)
Protections	Overload current protection
PHYSICAL Enclosure	IP-40
Dimensions (mm)	196(W) x 170(D) x 86(H)
Dimensions (mm)	1427g
ENVIRONMENTAL Operating temperature	-40 to 70°C
Storage temperature	-40 to 85°C
Operating humidity	5 to 95% non-condensing
REGULATORY APPROVAL Emissions	EN55022 (Class A), CISPR (FCC part 15), EN50155 (EN50121-3-2, EN55011, EN50121-4)
Immunity	EN61000-4.2 (ESD), EN61000-4.3 (RF), EN61000-4.4 (Fast transient), EN61000-4.5 (Surge), EN61000-4.6 (Conducted Disturbance), EN61000-4.8 (Magnetic field), EN61000-4.11 (Dips and voltage variations)
Shock	IEC60068-2-27
Free fall	IEC60068-2-32
Vibration	IEC60068-2-6
Safety	EN60950
Other	2002/95/EC Directive (RoHS)
WARRANTY	2 years

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