




Product information
OCTOPUS 8M-8PoE

Name		OCTOPUS 8M-8PoE
		
		Managed IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, software layer 2 professional, Ethernet (10 Mbit/s) and Fast-Ethernet (100 Mbit/s), power sourcing equipment according to IEEE 802.3af (inline power)
Delivery informations		
Availability	available	
Product description		
Description	Managed IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, software layer 2 professional, Ethernet (10 Mbit/s) and Fast-Ethernet (100 Mbit/s), power sourcing equipment according to IEEE 802.3af (inline power)	
Port type and quantity	8 x 10/100 BASE-TX PoE (phantom power), M12 D coding, 4-pole, TP cable, auto-crossing, auto-negotiation, auto-polarity	
Type	OCTOPUS 8M-8PoE	
Order No.	943 967-001	
More Interfaces		
Power supply/signaling contact	1 x M12 5-pin connector, A coding	
V.24 interface	1 x M12 4-pin socket, A coding	
USB interface	1 x M12 5-pin socket, A coding	
Network size - length of cable		
Twisted pair (TP)	0 - 100 m	
Multimode fiber (MM) 50/125 µm	n/a	
Multimode fiber (MM) 62.5/125 µm	n/a	
Network size - cascading		
Line - / star topology	Any	
Ring structure (HIPER-Ring) quantity switches	50 (reconfiguration time < 0.3 sec.)	
Power requirements		
Operating voltage	DC 46 V to 58 V	
Power consumption	max. 142 W	
Current consumption at 24 V DC	n/a	
Current consumption at 48 V DC	0.2 A (no PD), max. 3 A (8 PD Class 0)	
Service		
Management	Serial interface, Web interface, SNMP V1/V2/V3 (HiVision/Industrial HiVision)	
Diagnostics	LEDs (power 1, power 2, link status, data, redundancy manager, error) cable tester, signalling contact, RMON (statistics, history, alarms, events), SysLog support, port mirroring	
Configuration	Command Line Interface (CLI scripting), auto-configuration adapter (ACA21-M12), TELNET, BootP, DHCP Option 82, HiDiscovery	
Security	Port security (MAC and IP address), SNMPv3, SSHv3, SNMP access settings (VLAN/IP), IEEE 802.1X authentication	
Other services	4 QoS queues, user priority (IEEE 802.1D/p), VLAN (IEEE 802.1Q), unknown multicast filtering, multicast support (IGMP Snooping/Querier, GMRP), broadcast limiter per port, ingress and egress packet limiter, Flow Control IEEE 802.3x, LLDP (topology discovery IEEE 802.1AB), Link Aggregation (IEEE 802.3ad), buffered real-time clock, PTP support (Precision Time Protocol) (IEEE 1588 client for system clock only), SNTP support (Simple Network Time Protocol, client/server)	
Redundancy		
Redundancy functions	HIPER-Ring (ring structure), RSTP (Rapid Spanning Tree Protocol, IEEE 802.1w), redundant network/ring coupling, redundant power supply	
Ambient conditions		
Operating temperature	-40 °C to +70 °C	
Storage/transport temperature	-40 °C to +85 °C	
MTBF	28,9 Jahre; Telecordia SR-332: Gb 25 °C	
Relative humidity	10 to 100% (also condensing)	
Mechanical construction		
Dimensions (W x H x D)	184 mm x 189 mm x 70 mm	

The information published has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price-related/commercial respect.



Mounting	Wall mounting
Weight	1300 g
Protection class	IP 67
Mechanical stability	
IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	1 mm, 2 Hz - 13.2 Hz, 90 min.; 0,7g, 13.2 Hz - 100 Hz, 90 min.; 3.5 mm, 3 Hz - 9 Hz, 10 cycles, 1 octave/min.; 1g, 9 Hz - 150 Hz, 10 cycles, 1 octave/min.
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	4 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80 - 1000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 1 kV data line
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line
EN 61000-4-6 conducted immunity	3 V (10 kHz - 150 kHz), 10 V (150 kHz - 80 MHz)
EMC emitted immunity	
FCC CFR47 Part 15	FCC CFR47 Part 15 Class A
EN 55022	EN 55022 Class A
Approvals	
Safety of industrial control equipment	cUL 508 (pending)
Shipbuilding	Germanischer Lloyd (pending)
Electronic mechanisms on rail-mounted vehicles	EN 50155
Scope of delivery and accessories	
Scope of delivery	M12-connector (ELWIKA 5012 PG7) for power connection, description and operating instructions
Accessories to order separately	Auto Configuration Adapter (ACA21-M12), order no. 943 931-001; modem cable (OCTOPUS Terminalkabel), order no. 943 902-001; field assembleable M12-connector (EM12S OCTOPUS), order no. 934 445-001; patchcords (EM12S 001Lxxxx OCTOPUS), order no. 934 578-xxx; crossing M12 to RJ45 (EF12RJ45 OCTOPUS), order no. 934 498-001; OCTOPUS dust cover set (25 pieces) order no. 942 057-001
Note	Please note that some recommended accessory parts only support a temperature range from -25 °C to +70 °C and might limit the possible operating conditions for the entire system. Specially designed connector types with protection class IP 67 and extended temperature range are available on request. Furthermore unsealed accessories like RJ45 adapters or terminal access cables are certainly not suitable inside IP 67 areas.

The information published has been compiled as carefully as possible. It is subject to alteration without notice in technical as well as in price-related/commercial respect.