




Product information OpenOCTOPUS Fast Ethernet - OCTOPUS OS20-0010004M4MTREPHH

Industrial Ethernet:Waterproof IP67/IP54 Switches:OpenOCTOPUS:OpenOCTOPUS Fast Ethernet

<https://e-catalog.beldensolutions.com:443/link/57078-24455-49850-351255-400977/en/OS20-0010004M4MTREPHH08.0/uistate>

Name	OpenOCTOPUS Fast Ethernet
	
	Managed IP 65 / IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, software layer 2 Professional, electrical Fast-Ethernet (10/100 Mbit/s) and optical 100BASE-FX, Multimode-LWL ports in accordance with IEC 63076-3-106 Version 4
Delivery informations	
Availability	available
Product description	
Description	Managed IP 65 / IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, software layer 2 Professional, electrical Fast-Ethernet (10/100 Mbit/s) and optical 100BASE-FX, Multimode-LWL ports in accordance with IEC 63076-3-106 Version 4
Port type and quantity	10 ports in total; uplink ports: 10/100 BASE-FX, multi mode, housing acc. ISO/IEC 24702 and IEC 63076-3-106 Version 4; 10 x 10/100 BASE-TX x 10/100 BASE-TX, M12 "D"-coding, 4-pole; TP-cable, auto-crossing, auto-negotiation, auto-polarity.
Type	OCTOPUS OS20-0010004M4MTREPHH
Order No.	943 988-003
More interfaces	
Power supply/signaling contact	1 x M12 5-pin connector, A coding, 1 x M12 5-pin connector, A coding
V.24 interface	1 x M12 4-pin connector, 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	0-4 km, 7 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 800 MHz*km
Multimode fiber (MM) 62.5/125 µm	0-4 km, 10 dB link budget at 1300 nm, A = 1 dB/km, 3 dB reserve, B = 500 MHz*km
Single mode fiber (SM) 9/125 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	24/36 VDC -30% / +30% (16,8 ..45 VDC)
Power consumption	9 W
Current consumption at 24 V DC	400 mA
Current consumption at 48 V DC	200 mA
Software	
Management	Serial interface V.24 web-interface, Telnet, SSHv2, HTTP, HTTPS, TFTP, SFTP, SNMP v1/v2/v3, Traps
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), auto-configuration adapter, TELNET, BootP, DHCP Option 82, HiDiscovery
Security	Port Security (IP and MAC), SNMPv3, SSHv3, SNMP access settings (VLAN/IP), IEEE 802.1X authentication
Redundancy functions	redundant power supply
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)
Ambient conditions	
Operating temperature	-40 °C ... 70 °C
Storage/transport temperature	-40 °C ... 85 °C
Relative humidity (also condensing)	10 % ... 100 %



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MTBF	41 years; Telcordia, Gb 25 °C
Mechanical construction	
Dimensions (W x H x D)	261 mm x 189 mm x 53 mm
Mounting	Wall mounting
Weight	1750 g
Protection class	IP65, IP67
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.; 0.7 g, 13.2 Hz-100 Hz, 90 min.; 3.5 mm, 3 Hz-9 Hz, 10 cycles, 1 octave/min.; 1 g, 9 Hz-150 Hz, 10 cycles, 1 octave/min
EMC interference immunity	
EN 61000-4-2 electrostatic discharge (ESD)	6 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 47 CFR Part 15 Class A
EN 55022	EN 55022 Class A
Approvals	
Basis Standard	CE, C-Tick
Safety of industrial control equipment	cUL 508, GOST-R, CCC
Electronic mechanisms on rail-mounted vehicles	EN 50121-4, EN 50155, EN 45545, DIN 5510-2, NF F 16-101, NF F 16-102
Scope of delivery and accessories	
Scope of delivery	M12-connector (ELWIK A 5012 PG7) for power connection, description and operating instructions
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.
Accessories to order separately	M12 connector, "D"-coded (934 445-001); 2 m cordset with M12-connector, "D"-coded (934 578-001); 5 m cordset with M12-connectors, "D"-coded (934 578-002); 10 m cordset with M12-connectors, "D"-coded (934 578-003); Bulkhead M12 "D"-coded to RJ45 (934 498-001); OCTOPUS dust cover set (25 pieces) (942 057-001).OCTOPUS terminalcable (943 902-001),

For more information please contact:
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