


Product information

OpenOCTOPUS Gigabit Ethernet - OCTOPUS OS30-0008021B1BTREPHH

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

<https://e-catalog.beldensolutions.com:443/link/57078-24455-49850-351255-377908/en/OS30-0008021B1BTREPHH08.0/uistate>

Name		OpenOCTOPUS Gigabit Ethernet
		
		Managed IP 65 / IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, software layer 2 Professional, Fast-Ethernet (10/100 MBit/s) and Gigabit-Ethernet (1000 MBit/s) ports, optical Gigabit-Ethernet (1000BASE-LX), Singlemode-LWL ports
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, Fast-Ethernet (10/100 MBit/s) and Gigabit-Ethernet (1000 MBit/s) ports, optical Gigabit-Ethernet (1000BASE-LX), Singlemode-LWL ports
Port type and quantity		10 ports in total; uplink ports: 1000 BASE-LX, single mode, housing acc. ISO/IEC 24702 and IEC 63076-3-106 Version 1; 8 x 10/100 BASE-TX; TP-cable, auto-crossing, auto-negotiation, auto-polarity.
Type		OCTOPUS OS30-0008021B1BTREPHH
Order No.		943 988-006
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) 62.5/125 µm		n/a
Single mode fiber (SM) 9/125 µm		0-17.5 km, 10 dB link budget at 1310 nm, A = 0.4 dB/km, 3 dB reserve, D = 3.5 ps/(nm*km)
Network size - cascadiability		
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 %
MTBF		41 years; Telcordia, Gb 25 °C



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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 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 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 terminal cable (943 902-001),

For more information please contact:

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