



Product: [OCTOPUS 24M-8PoE](#) 

Life Cycle Status: Limited Availability/Passive

Replaced by: [OS20/24/30/34 - OCTOPUS II configurator](#)

Managed IP67 PoE-Switch, 24 ports, supply voltage 48 VDC, Software L2P, train approvals

Product Description

Managed IP 65 / IP 67 switch in accordance with IEEE 802.3, store-and-forward-switching, software layer 2 Professional, power sourcing equipment in accordance with IEEE 802.3af (PoE inline power), electrical Fast-Ethernet (10/100 MBit/s) M12-ports

Technical Specifications

Product description

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|-------------------------|--|
| Type: | OCTOPUS 24M-8PoE |
| Description: | The OCTOPUS switches are suited for outdoor applications with rough environmental conditions. Because of the branch typical approvals they can be used in transport applications (E1), as well as in trains (EN 50155) and ships (GL). |
| Part Number: | 942063001 |
| Port type and quantity: | 24 ports in total uplink ports: 10/100 BASE-TX, M12 "D"-coding, 4-pole 24 x 10/100 BASE-TX, thereof 8 x 10/100 BASE-TX PoE (phantom power) TP-cable, auto-crossing, auto-negotiation, auto-polarity. |

Product Life Cycle

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| Life Cycle: | Limited Availability/Passive - the product is entering End of Life |
| Availability: | Passiv |
| Last Order Date: | 2023-12-31 |
| Last Delivery Date: | 2024-06-30 |

More Interfaces

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| Power supply/signaling contact: | 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

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| Twisted pair (TP): | 0-100 m |
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Network size - cascading

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| Line - / star topology: | any |
| Ring structure (HIPER-Ring) quantity switches: | 50 (reconfiguration time 0.3 sec.) |

Power requirements

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| Operating Voltage: | 48 VDC (46 .. 57 VDC) |
| Power consumption: | max. 148.8 W with 120 W PoE output |
| Power output in BTU (IT)/h: | max. 74 |
| Redundancy functions: | redundant power supply |

Software

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| 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, signaling contact, RMON (statistics, history, alarms, events), SysLog support, port mirroring |
| Configuration: | Command Line Interface (CLI), auto-configuration adapter, TELNET, BootP, DHCP Option 82, HiDiscovery |

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| Security: | Port Security (IP and MAC), SNMPv3, SSHv3, SNMP access settings (VLAN/IP), IEEE 802.1X authentication |
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Ambient conditions

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| MTBF (Telecordia SR-332 Issue 3) @ 25°C: | 20.8 Years |
| Operating temperature: | -40-+70 °C |
| 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. |
| Storage/transport temperature: | -40-+85 °C |
| Relative humidity (also condensing): | 10-100 % |

Mechanical construction

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| Dimensions (WxHxD): | 338 mm x 189 mm x 70 mm |
| Weight: | 2500 g |
| Mounting: | Wall mounting |
| Protection class: | IP65, IP67 |

Mechanical stability

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| 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 |
| IEC 60068-2-27 shock: | 15 g, 11 ms duration, 18 shocks |

EMC interference immunity

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| EN 61000-4-2 electrostatic discharge (ESD): | 6 kV contact discharge, 8 kV air discharge |
| EN 61000-4-3 electromagnetic field: | 20 V/m (80-3000 MHz) |
| EN 61000-4-4 fast transients (burst): | 2 kV power line, 2 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

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| EN 55032: | EN 55032 Class A |
| FCC CFR47 Part 15: | FCC 47CFR Part 15, Class A |

Approvals

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| Basis Standard: | CE, EAC, Australian Regulatory Compliance Mark (RCM) |
| Railway norm: | EN 50155, EN 45545-2, EN 50121-4 |
| Transportation: | E1 |

Reliability

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| Guarantee: | 60 months (please refer to the terms of guarantee for detailed information) |
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Scope of delivery and accessories

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| Accessories to Order Separately: | ACA22-M12 (EEC) (942 125-001), M12 conector, "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 metal dust cover set (25 pieces) (942 057-001), OCTOPUS plastic dust cover set (25 pieces) (942 057-002)* |
| Scope of delivery: | 1 × Device, 1 x connector for power connection, General safety instructions |

Further Instructions

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| Product Documentation: | https://www.doc.hirschmann.com |
| Certificates: | https://www.doc.hirschmann.com/certificates.html |
| Software Download: | https://hirschmann-support.belden.com/en-US/downloads |

History

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| Update and Revision: | Revision Number: 0.119 Revision Date: 04-29-2025 |
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