# Datasheet

## Product information
## Modular OpenRail Gigabit Ethernet switch 8-24 ports - MS30-0802SAAEHH08.0.

| Industrial Ethernet:Modular Industrial Switches:Configurable modular switches:with Firmware Release 8:Modular OpenRail Gigabit Ethernet switch 8-24 ports | |
|---|---|
| **Name** | Modular OpenRail Gigabit Ethernet switch 8-24 ports |
| | 10 port Gigabit/Fast Ethernet switch (2 x GE, 8 x FE), managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design |
| **Delivery informations** | |
| **Availability** | available |
| **Product description** | |
| **Description** | 10 port Gigabit/Fast Ethernet switch (2 x GE, 8 x FE), managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design |
| **Port type and quantity** | Fast Ethernet ports in total: 8; Gigabit Ethernet ports: 2 |
| **Type** | MS30-0802SAAEHH08.0. |
| **Order No.** | 943 435-005 |
| **More Interfaces** | |
| **Power supply/signaling contact** | 2 x plug-in terminal block, 4-pin |
| **V.24 interface** | 1 x RJ11 socket |
| **USB interface** | 1 x USB to connect the AutoConfiguration Adapter ACA21-USB |
| **Network size - cascadibility** | |
| **Line - / star topology** | any |
| **Ring structure (HIPER-Ring) quantity switches** | 50 (reconfiguration time < 0.3 sec.) |
| **Power requirements** | |
| **Operating voltage** | 24 V DC (18-32) V |
| **Current consumption at 24 V DC** | 233 mA |
| **Current consumption at 48 V DC** | 180 mA |
| **Power output in Btu (IT) h** | 19.1 |
| **Software** | |
| **Management** | Serial interface, web interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP |
| **Diagnostics** | LEDs, log-file, relay contact, RMON, port mirroring 1:1, topology discovery 802.1AB, address conflict detection, network error detection, SFP diagnostic [temperature, optical input and output power (µW and dBm)], Trap for configuration saving and changing, duplex mismatch detection, disable learning. |
| **Configuration** | Comand line interface (CLI), TELNET, BootP, DHCP, DHCP option 82, HIDiscovery, easy device exchange with auto-configuration adapter ACA21-USB (automatic software and/or configuration upload), automatic invalid configuration undo, configuration signature (water marking) |
| **Security** | Port Security (IP und MAC) with multiple addresses, SNMP V3 (no encryption) |
| **Redundancy functions** | HIPER-ring (ring structure), MRP (IEC-ring functionality), RSTP 802.1D-2004, redundant network/ring coupling, MRP and RSTP in parallel, redundant 24 V power supply |
| **Filter** | QoS 4 classes, port priorisation (IEEE 802.1D/p), VLAN (IEEE 802.1Q), shared VLAN learning, multicast (IGMP Snooping/Querier), multicast detection unknown multicast, broadcastlimiter, fast aging |
| **Industrial Profiles** | EtherNet/IP and PROFINET (2.2 PDEV, GSDML stand-alone generator, automatic device exchange) profiles included, configuration and diagnostic via automation software tools like e.g. STEP7, or Control Logix |
| **Time synchronisation** | SNTP server, PTP / IEEE 1588 |
| **Flow control** | Flow control 802.3x, port priority 802.1D/p, priority (TOS/DIFFSERV) |
| **Presettings** | Standard |
| **Ambient conditions** | |
| **Operating temperature** | 0 °C ... 60 °C |
| **Storage/transport temperature** | -40 °C ... 70 °C |
| **Relative humidity (non-condensing)** | 10 % ... 95 % |
| **MTBF** | 46.1 years (MIL-HDBK-217F) |
| **Protective paint on PCB** | No |

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| | |
|---|---|
| **Mechanical construction** | |
| Dimensions (W x H x D) | 163 mm x 133 mm x 100 mm (140 at 48V module) |
| Mounting | DIN Rail |
| Weight | 1010 g |
| Protection class | IP20 |
| **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** | |
| Safety of industrial control equipment | cUL 508 |
| Hazardous locations | ISA 12.12.01 Class 1 Div. 2 |
| Shipbuilding | n/a |
| Transportation | NEMA TS2 |
| **Scope of delivery and accessories** | |
| Scope of delivery | Device, 2 x terminal block, operating manual, CD |

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

The complete information and data were available on user documentation. Mandatory information can only be obtained by a concrete query.

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