



MS30-0802SAAPHH03.0.

Industrial Networking:Industrial Ethernet:OpenRail System:Modular:Switches 3.0

| Product description | |
|------------------------------------|---|
| Description | ETHERNET/Fast ETHERNET-switch according to IEEE 802.3 compact, managed, Industrial switch for DIN rail store-and-forward-switching, fanless design, Software Layer 2 Professional |
| Port type and quantity | Fast ethernet ports in total: 8; Gigabit Ethernet Ports: 2 |
| Type | MS30-0802SAAPHH03.0. |
| Order No. | MS30-0802SAAPHH03.0. |
| More Interfaces | |
| Power supply/signaling contact | 1 x plug-in terminal block, 6-pin |
| V.24 interface | 1 x RJ11 socket |
| USB interface | 1 x to connect auto-configuration adapter ACA21-USB |
| Network size - cascading | |
| Line - / star topology | any |
| Ring structure (HIPER-Ring) | 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, syslog, signal contact, RMON, port mirroring, topology discovery 802.1AB, cable diagnostic (TX), disable learning |
| Configuration | Command line interface (CLI), TELNET, BootP, DHCP, DHCP option 82, HiDiscovery, auto-configuration adapter (ACA21-USB, ACA11 read support) |
| Security | Port security (IP und MAC), SNMP V3, SSH, authentication (802.1x) |
| Redundancy functions | HIPER-ring (ring structure), MRP (IEC-ring functionality), RSTP 802.1w, redundant network/ring coupling, dual homing, link aggregation, redundant 24 V power supply, redundant signal contact |
| Industrial Profiles | configuration and diagnostic via automation software tools like e.g. STEP7, or Control Logix |
| Realtime | SNTP server, PTP / IEEE 1588 support with media module, realtime clock with energy buffer |
| Flow control | Flow control 802.3x, port priority 802.1D/p, priority (TOS/DIFFSERV), prio (MAC/IP), prio mapping (TOS Layer2), traffic shaping (unicast, multicast, broadcast) ingress / egress |
| Ambient conditions | |
| Operating temperature | 0° to +60°C |
| Storage/transport temperature | -40° to +70°C |
| Relative humidity (non-condensing) | 10% to 95% |
| MTBF | 42.4 years |
| Mechanical construction | |
| Dimensions (W x H x D) | 163 x 133 x 100 (140 at 48 V module) |
| Mounting | DIN Rail |
| Weight | 740 g (830 g at 48 V module) |
| Protection class | IP20 |
| Mechanical stability | |

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| 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) | 6 kV contact discharge, 8kV 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: 2kV (line/earth), 1kV (line/line), 1kV 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 |
| EN 55022 | EN 55022 Class A |
| Approvals | |
| Safety of industrial control equipment | cUL 508 |
| Hazardous locations | cUL 1604 Class1 Div 2 |
| Scope of delivery and accessories | |
| Scope of delivery | Device, terminal block, operating manual |
| Accessories to order separately | Rail power supply RPS 30, RPS 80 EEC or RPS 120 EEC, terminal cable, network management HiVision, auto-configuration adapter (ACA21-USB), 19 installation frame" |