



Product information MACH4002-48G+3X-L2P

| Industrial Ethernet:Backbone Switches:Chassis:MACH4002-48G+3X-L2P | |
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| https://e-catalog.beldensolutions.com:443/link/57078-24455-49838-24526-40295/en/conf/ui/istate | |
| Name | MACH4002-48G+3X-L2P |
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| | MACH 4000, modular, managed Industrial Backbone-Switch, Layer 2 Switch with Software Professional. |
| Delivery informations | |
| Availability | available |
| Product description | |
| Description | MACH 4000, modular, managed Industrial Backbone-Switch, Layer 2 Switch with Software Professional. |
| Port type and quantity | up to 48 Gigabit-ETHERNET and 3x 10Gigabit-ETHERNET ports, thereof up to 32 Gigabit-ETHERNET ports via media modules practicable, 3x 10Gigabit XFP sockets and 16 Gigabit TP (10/100/1000Mbit/s) ports are integral installed |
| Type | MACH4002-48G+3X-L2P |
| Order No. | 943 878-101 |
| More Interfaces | |
| Power supply/signaling contact | 1 plug-in terminal block, 4-pin, 2x egresses manual or automatic switchable (1 A at max. 60 V DC or max. 30 V) |
| V.24 interface | 1 x RJ11 socket, serial interface to the configuration of devices |
| USB interface | 1USB interface to connect auto-configuration adapter (ACA21-USB) |
| Network size - cascading | |
| Line - / star topology | any |
| Ring structure (HIPER-Ring) quantity switches | ring-recovery time < 50 ms typ. at LWL |
| Power requirements | |
| Operating voltage | power supply unit M4-S-xx or M4-Power Chassis with power supply unit please order separately |
| Power consumption | 70 W (without media modules) |
| Service | |
| Management | serial interface, web interface, SNMP V1/V2/V3, HiVision, file transfer SW HTTP/TFTP |
| Diagnostics | LEDs (power, link status, data, 100 Mbit/s, auto-negotiation, full-duplex, error, redundancy management, ring-port, LED-test), signal contact, syslog, logfile, RMON, port mirroring, Topology Discovery IEEE 802.1AB (LLDP) |
| Configuration | command line interface (CLI), TELNET, BootP, DHCP, DHCP Option 82, HiDiscovery, auto-configuration adapter (ACA21-USB) |
| Security | port-security (MAC- and IP-addresses), access control to agent (VLAN/IP) authentication 802.1x, SSH, SSL, SNMP V3 |
| Other services | QoS 8 classes, prioritisation (IEEE 802.1D/p), VLAN (IEEE 802.1Q), multicast (IGMP snooping/querier), broadcastlimiter, flow control IEEE 802.3x, SNTP (Simple Network Time Protocol), TOS (Type of Service) Diff.-Serv (DSCP), TOS-Prio-Mapping, protocol based VLANs (IP, nonIP Traffic), Traffic Shaping |
| Prepared for | MSTP-802.1s |
| Redundancy | |
| Redundancy functions | HIPER-Ring (ring structure), RSTP IEEE 802.1D/w (rapid spanning tree protocol), redundant network/ring coupling (master/slavefunctionality), redundant 24 V power supply by M4-Power basic device, redundant signal contact, link aggregation dynamic and static (max. 7 trunks, 8 ports/trunk, LACP) |
| Ambient conditions | |
| Operating temperature | 0 °C to +60 °C |
| Storage/transport temperature | -25 °C to +70 °C |
| Relative humidity (non-condensing) | 10% to 95% |
| Mechanical construction | |
| Dimensions (W x H x D) | 480 mm x 88 mm x 435 mm |
| Mounting | 19" control cabinet |
| Weight | 7.5 kg |
| Protection class | IP 20 |
| 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 |



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| 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 CFR47 Part 15 Class A |
| EN 55022 | EN 55022 Class A |
| Approvals | |
| Safety of industrial control equipment | cUL 508 |
| Shipbuilding | Germanischer Lloyd |
| Safety of information technology equipment | cUL 60950-1 |
| Railway norm | EN50121-4 |
| Scope of delivery and accessories | |
| Scope of delivery | device, terminal block, operating manual, fan M4-AIR installed |
| Accessories to order separately | SFP transceiver (100/1000MBit/s), Power supply unit, auto-configuration adapter (ACA21-USB), network management with Industrial HiVision |

For more information please contact:

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