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Product information MACH4002-48G-L2P

Industrial Ethernet:Backbone Switches:Chassis:MACH4002-48G-L2P

<http://e-catalog.hirschmann.com/link/57078-24455-49838-24526-40301/en/conf/ustate>

Name	MACH4002-48G-L2P
	
	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 ports, thereof up to 32 Gigabit-ETHERNET ports via media modules practicable, 16 Gigabit TP (10/100/1000Mbit/s) thereof 8 as combo SFP(100/1000Mbit/s)/TP ports are integral installed
Type	MACH4002-48G-L2P
Order No.	943 911-101
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 - cascability	
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-adresses), 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/slave functionality), 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 (pending)
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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