




Product information MS4128-L3P EEC

Industrial Ethernet:Modular Industrial Switches:Modular switches:Switches:Layer 3 switches:MS4128-L3P EEC

<http://www.e-catalog.beldensolutions.com/link/57078-24455-49860-49862-24481-94675-87224/en/conf/uistate>

Name	MS4128-L3P EEC
	
	Power MICE, modular, managed Industrial Ethernet Switch, Layer 3 Switch with Software Professional. Ethernet (10 Mbit/s) and Fast-ETHERNET (100 Mbit/s) and Gigabit-Ethernet (1000 Mbit/s)
Delivery informations	
Availability	available
Product description	
Description	Power MICE, modular, managed Industrial Ethernet Switch, Layer 3 Switch with Software Professional. Ethernet (10 Mbit/s) and Fast-ETHERNET (100 Mbit/s) and Gigabit-Ethernet (1000 Mbit/s)
Port type and quantity	up to 28 ports above media modules practicable, 4 X 1000 BASE-SX with SFP modules or 4 x 10/100/1000 BASE-TX and 24 Fast-ETHERNET (100 Mbit/s) ports (with MB-2T)
Type	MS4128-L3P EEC
Order No.	943 009-303
More interfaces	
Power supply/signaling contact	2 plug-in terminal blocks, 4-pin
V.24 interface	1 x RJ11 socket
USB interface	1 x USB to connect the AutoConfiguration Adapter ACA21-USB
Network size - cascading	
Line - / star topology	any
Ring structure (HIPER-Ring) quantity switches	50 (reconfiguration time < 50 ms typ. at LWL)
Power requirements	
Operating voltage	24 V DC (-25% to +30%)
Current consumption at 24 V DC	630 mA (without media modules)
Power consumption	15 W (without media modules)
Software	
Management	serial interface, web interface, SNMP V1/V2/V3, HiVision, file transfer SW HTTP/TFTP
Diagnostics	LEDs, signal contacts (24V DC / 1 A), 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	authentication 802.1x, port-security IP and MAC, SNMP V3, ACL (L2/L3/L4 packet filtering) 100 / port
Other services	QoS 8 classes, port prioritisation IEEE 802.1D/p, VLAN IEEE 802.1Q, Multicast (IGMP Snooping/Querier), GMRP, Broadcast- UC-, MC-Limiter, Fast Aging, Flow Control IEEE 802.3x, PTP client (Precision Time Protocol, IEEE 1588), SNTP (Simple Network Time Protocol), Traffic Shaping, protocol based VLANs, static routing, dynamic routing RIP V1/2, OSPF, VRRP, multicast routing PIM-DM, DVMPRP, IGMP V1/V2/V3
Redundancy	
Redundancy functions	HIPER-Ring (ring structure), RSTP IEEE 802.1w (rapid spanning tree protocol), redundant network/ring coupling (master/receiver functionality), dual homing (master/receiver functionality), redundant 24 V power supply
Ambient conditions	
Operating temperature	-30 °C ... 60 °C
Storage/transport temperature	-40 °C ... 70 °C
Relative humidity (non-condensing)	10 % ... 95 %
MTBF	n/a
Protective paint on PCB	Yes (conformal coating)
Mechanical construction	
Dimensions (W x H x D)	315 mm x 134 mm x 140 mm
Mounting	DIN Rail
Weight	2200 g
Protection class	IP20



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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	cUL 1604 Class1 Div 2 (pending)
Shipbuilding	Germanischer Lloyd
Railway norm	EN50121-4

Scope of delivery and accessories

Scope of delivery	device, 2 terminal blocks, operating manual
Accessories to order separately	rail power supply RPS 30, RPS 80 EEC or RPS 120 EEC, terminal cable, HiVision network management, auto-configuration adapter (ACA21-USB), 19" installation frame, labels ML-MS2/MM, additional backplane MB-2T

For more information please contact:

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