




Product information Full Modular Gigabit Ethernet Railswitch 12-28 Ports - MSP42-00120SPZ999HHE2A06.2

Industrial Ethernet:Modular Industrial Switches:Configurable Modular Switches - MSP:with HiOS 6.2/7.0:Full Modular Gigabit Ethernet Railswitch 12-28 Ports

<http://dev-catalog.beldensolutions.com/link/57078-24455-49860-277860-461218-461219/en/MSP42-00120SPZ999HHE2A06.2/uistate>

Name	Full Modular Gigabit Ethernet Railswitch 12-28 Ports
	
	Modular Full Gigabit Ethernet Industrial Switch for DIN Rail, PoE+ Support, Fanless design; Software HiOS Layer 2 Advanced
Delivery informations	
Availability	available
Product description	
Description	Modular Full Gigabit Ethernet Industrial Switch for DIN Rail, PoE+ Support, Fanless design; Software HiOS Layer 2 Advanced
Port type and quantity	Gigabit Ethernet ports in total: 8; 2.5 Gigabit Ethernet ports: 4
Type	MSP42-00120SPZ999HHE2A06.2
Order No.	MSP42-00120SPZ999HHE2A06.2
Classification	
Belden brand	Hirschmann
More Interfaces	
Power supply/signaling contact	2 x plug-in terminal block, 4-pin
V.24 interface	1 x RJ45 socket
USB interface	1 x USB to connect the AutoConfiguration Adapter ACA21/22-USB
SD-card slot	1 x SD card slot to connect the auto configuration adapter ACA31
Network size - cascading	
Line - / star topology	any
Power requirements	
Operating voltage	48 VDC (47–57 VDC PoE oder 53–57 VDC PoE+)
Software	
Management	DNS Client; Dual Software Image Support; TFTP; SFTP; SCP; LLDP (802.1AB); LLDP-MED; SSHv2; V.24; HTTP; HTTPS; Traps; SNMP v1/v2/v3; Telnet
Diagnostics	Management Address Conflict Detection; MAC Notification; Signal Contact; Device Status Indication; TCPDump; LEDs; Syslog; Persistent Logging on ACA; Email Notification; Port Monitoring with Auto-Disable; Link Flap Detection; Overload Detection; Duplex Mismatch Detection; Link Speed and Duplex Monitoring; RMON (1,2,3,9); Port Mirroring 1:1; Port Mirroring 8:1; Port Mirroring N:1; RSPAN; SFLOW; VLAN Mirroring; System Information; Self-Tests on Cold Start; Copper Cable Test; SFP Management; Configuration Check Dialog; Switch Dump; Snapshot Configuration Feature
Configuration	Automatic Configuration Undo (roll-back); Configuration Fingerprint; Text-based Configuration File (XML); BOOTP/DHCP Client with Auto-Configuration; DHCP Server: per Port; DHCP Server: Pools per VLAN; AutoConfiguration Adapter ACA31 (SD card); AutoConfiguration Adapter ACA21/22 (USB); HiDiscovery; DHCP Relay with Option 82; Command Line Interface (CLI); CLI Scripting; Full-featured MIB Support; Web-based Management; Context-sensitive Help
Security	MAC-based Port Security; Port-based Access Control with 802.1X; Guest/unauthenticated VLAN; Integrated Authentication Server (IAS); RADIUS VLAN Assignment; RADIUS Policy Assignment; Multi-Client Authentication per Port; MAC Authentication Bypass; DHCP Snooping; IP Source Guard; Dynamic ARP Inspection; Automatic Denial-of-Service Prevention; LDAP; Ingress MAC-based ACL; Egress MAC-based ACL; Ingress IPv4-based ACL; Egress IPv4-based ACL; Time-based ACL; VLAN-based ACL; Ingress VLAN-based ACL; Egress VLAN-based ACL; ACL Flow-based Limiting; Access to Management restricted by VLAN; Device Security Indication; Audit Trail; CLI Logging; HTTPS Certificate Management; Restricted Management Access; Appropriate Use Banner; Configurable Password Policy; Configurable Number of Login Attempts; SNMP Logging; Multiple Privilege Levels; Local User Management; Remote Authentication via RADIUS; User Account Locking
Redundancy functions	HIPER-Ring (Ring Switch); HIPER-Ring over Link Aggregation; Link Aggregation with LACP; Link Backup; Media Redundancy Protocol (MRP) (IEC62439-2); MRP over Link Aggregation; Sub Ring Manager; RSTP 802.1D-2004 (IEC62439-1); RSTP Guards
Time synchronisation	PTPv2 Transparent Clock two-step; PTPv2 Boundary Clock; Buffered Real Time Clock; SNTP Client; SNTP Server
Miscellaneous	Digital IO Management; PoE (802.3AF); PoE+ (802.3AT); PoE+ Manual Power Management; PoE Fast Startup; Manual Cable Crossing; Port Power Down
Switching	Independent VLAN Learning; Fast Aging; Static Unicast/Multicast Address Entries; QoS / Port Prioritization (802.1D/p); TOS/DSCP Prioritization; Interface Trust Mode; CoS Queue Management; IP Ingress DiffServ Classification and Policing; IP Egress DiffServ Classification and Policing; Queue-Shaping / Max. Queue Bandwidth; Flow Control (802.3X); Egress Interface Shaping; Ingress Storm Protection; Jumbo Frames; VLAN (802.1Q); Protocol-based VLAN; VLAN Unaware Mode; Voice VLAN; MAC-based VLAN; IP subnet-based VLAN; IGMP Snooping/Querier per VLAN (v1/v2/v3); Unknown Multicast Filtering; Multiple VLAN Registration Protocol (MVRP); Multiple MAC Registration Protocol (MMRP); Multiple Registration Protocol (MRP)



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Ambient conditions

Operating temperature	0 °C ... 60 °C
Storage/transport temperature	-40 °C ... 70 °C
Relative humidity (non-condensing)	10 % ... 95 %

Mechanical construction

Mounting	DIN Rail
Protection class	IP30

Mechanical stability

IEC 60068-2-27 shock	15 g, 11 ms duration, 18 shocks
IEC 60068-2-6 vibration	5 Hz - 8.4 Hz with 3.5 mm amplitude; 8.4 Hz - 150 Hz with 1 g

EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD)	4 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-3000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 4 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	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

Basis Standard	EN61131, C-Tick
Safety of industrial control equipment	EN 60950
Transportation	NEMA TS2
Country Approval	C-Tick

Scope of delivery and accessories

Scope of delivery	Device (backplane and power module), 2 x terminal block, Installation user manual
Accessories to order separately	MICE Switch Power Media Modules MSM; Rail Power Supply RPS 30, RPS 60/48V EEC, RPS 80, RPS90/48V HV, RPS90/48V LV, RPS 120 EEC; USB to RJ45 Terminal cable; Sub-D to RJ45 Terminal Cable Auto Configuration Adapter (ACA21, ACA31); Industrial HiVision Network Management System; 19" Installation frame

For more information please contact:

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