

Product: MSP30-24040SCY999HHE2A

Configurator: MSP30-24040SCY999HHE2A



Configurator Description

The MSP switch product range offers complete modularity and various high-speed port options with up to 10 Gbit/s. Optional Layer 3 software packages for dynamic unicast routing (UR) and dynamic multicast routing (MR) offer you an attractive cost benefit – "Just pay for what you need." Thanks to Power over Ethernet Plus (PoE+) support, terminal equipment can also be powered cost-effectively.

Technical Specifications

Product description

| | |
|------------------------|--|
| Type | MSP30-28-2A (Product Code: MSP30-24040SCY999HHE2AXX.X.XX) |
| Description | Modular Gigabit Ethernet Industrial Switch for DIN Rail, Fanless design , Software HiOS Layer 2 Advanced |
| Part Number | 942076007 |
| Port type and quantity | Fast Ethernet ports in total: 24; Gigabit Ethernet ports: 4 |

More Interfaces

| | |
|--------------------------------|--|
| Power supply/signaling contact | 2 x plug-in terminal block, 4-pin |
| V.24 interface | 1 x RJ45 socket |
| SD-card slot | 1 x SD card slot to connect the auto configuration adapter ACA31 |
| USB interface | 1 x USB to connect auto-configuration adapter ACA21-USB |

Network size - cascading

| | |
|------------------------|-----|
| Line - / star topology | any |
|------------------------|-----|

Power requirements

| | |
|----------------------------|--------------------|
| Operating Voltage | 24 V DC (18-32) V |
| Power consumption | 18.0 W |
| Power output in BTU (IT)/h | 61 |

Software

| | |
|---------------|---|
| 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, GARP VLAN Registration Protocol (GVRP), Voice VLAN, MAC-based VLAN, IP subnet-based VLAN, GARP Multicast Registration Protocol (GMRP), 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) |
| Redundancy | 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, Redundant Network Coupling, Sub Ring Manager, RSTP 802.1D-2004 (IEC62439-1), MSTP (802.1Q), RSTP Guards |
| 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, Port Mirroring N:2, 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), Backup config on a remote server when saving, Clear config but keep IP settings, 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, CLI script handling over ENVN at boot, Full-featured MIB Support, Web-based Management, Context-sensitive Help, HTML5 based Management |
| 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, Format options for MAC authentication bypass, DHCP Snooping, IP Source Guard, Dynamic ARP Inspection, 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, Password change on first login |

| | |
|----------------------|--|
| Time synchronisation | PTPv2 Transparent Clock two-step, PTPv2 Boundary Clock, Buffered Real Time Clock, SNTP Client, SNTP Server |
| Industrial Profiles | EtherNet/IP Protocol, IEC61850 Protocol (MMS Server, Switch Model), Modbus TCP, PROFINET Protocol |
| Miscellaneous | Digital IO Management, Manual Cable Crossing, Port Power Down |

Ambient conditions

| | |
|------------------------------------|------------|
| Operating temperature | 0-+60 °C |
| Storage/transport temperature | -40-+70 °C |
| Relative humidity (non-condensing) | 5-95 % |

Mechanical construction

| | |
|--------------------|--------------------|
| Dimensions (WxHxD) | 391 x 148 x 142 mm |
| Weight | 2.65 kg |
| Mounting | DIN rail |
| Protection class | IP20 |

Mechanical stability

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

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 MHz-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); data line: ± 1 kV (line/earth) |
| EN 61000-4-6 Conducted Immunity | 10 V (150 kHz-80 MHz) |

EMC emitted immunity

| | |
|-------------------|----------------------------|
| EN 55022 | EN 55032 Class A |
| FCC CFR47 Part 15 | FCC 47CFR Part 15, Class A |

Approvals

| | |
|--|---------------------------|
| Basis Standard | CE, FCC, EN61131 |
| Safety of industrial control equipment | EN 60950, cUL508, UL60950 |
| Transportation | NEMA TS2 |

Scope of delivery and accessories

| | |
|-------------------|---|
| Accessories | 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 |
| Scope of delivery | Device (backplane and power module), 2 x terminal block, General safety instructions |

© 2020 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.