# Product information
# RSPE Switches - RSPE35-24044O7T99-SCCV999HHHE3S04.0.

| Industrial Ethernet:Power Rail Switches:RSPE Switches:RSPE Switches | |
|---|---|
| http://e-catalog.hirschmann.com/link/57078-24455-202442-411805-411930/en/RSPE35-2404407T99-SCCV999HHHE3S04.0./uistate | |
| **Name** | **RSPE Switches** |
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| | Managed Fast/Gigabit Industrial Ethernet Switch, fanless design, Enhanced Redundancy (PRP, Fast MRP, HSR), 24x 10/100 Mbit/s Ethernet Ports, 4x 10/100/1000 Mbit/s Ethernet Ports, 4x FE/GE Combo ports |
| **Delivery informations** | |
| Availability | available |
| **Product description** | |
| Description | Managed Fast/Gigabit Industrial Ethernet Switch, fanless design, Enhanced Redundancy (PRP, Fast MRP, HSR), 24x 10/100 Mbit/s Ethernet Ports, 4x 10/100/1000 Mbit/s Ethernet Ports, 4x FE/GE Combo ports |
| Port type and quantity | 4x GE plus 24 FE ports, Ports in total up to 28 Basic unit: 4x FE/GE Combo ports plus 8 FE TX ports expandable with two slots for media modules with 8 FE ports each, 16 fiber ports: 4 GE/FE basic unit plus 12 FE with media modules |
| Type | RSPE35-2404407T99-SCCV999HHHE3S04.0. |
| Order No. | RSPE35-2404407T99-SCCV999HHHE3S04.0. |
| **More Interfaces** | |
| Power supply/signaling contact | 2x plug-in terminal block 2-pins, 1x plug-in terminal block 2-pins |
| V.24 interface | 1 x RJ11 socket |
| SD-card slot | to connect auto-configuration adapter ACA22 (USB) or ACA31 (SD-card) |
| **Network size - length of cable** | |
| Twisted pair (TP) | 0 m ... 100 m |
| Multimode fiber (MM) 50/125 µm | see SFP modules |
| Multimode fiber (MM) 62.5/125 µm | see SFP modules |
| Single mode fiber (SM) 9/125 µm | see SFP modules |
| Single mode fiber (LH) 9/125 µm (long haul transceiver) | see SFP modules |
| **Network size - cascadibility** | |
| Line - / star topology | any |
| **Power requirements** | |
| Operating voltage | 2x 24 - 48 VDC (18 - 60 VDC) |
| Power consumption | maximum 36W depending on fiber port count |
| **Software** | |
| Management | Serial interface V.24 web-interface, Telnet, SSHv2, HTTP, HTTPS, TFTP, SCP, SFTP, SNMP v1/v2/v3, Traps, LLDP-MED, SSH client |
| Diagnostics | LED, persistent logging, syslog, signal contact, device status indication, port mirroring N:1, RMON (1,2,3,9), TCPDump, LLDP, SFP management (temperature, optical input and output power), switch dump, configuration check dialog, system information, self tests on cold start, Management Address Conflict Detection, Copper cable test, Port Monitor, duplex mismatch detection, snapshot configuration feature, SFLOW |
| Configuration | Command line interface (CLI), WEB based management, fully featured MIB support, BOOTP/DHCP client with auto configuration, DHCP option 82, DHCP server per port and pool per VLAN, HiDiscovery, auto-configuration adapter ACA31 and ACA21, Automatic configuration undo (roll-back), text based configuration file, CLI scripting, Telnet |
| Security | Enhanced encryption ( >56 Bit, up to 256Bit DES) Management access; MAC based port security, Port-based access control with 802.1x, 802.1x enhancements with Guest/Unauthenticated VLAN and RADIUS VLAN assignment, Integrated Authentication Server (IAS), Basic wired-speed Ingress ACLs (MAC,IPv4) per port and per VLAN, Automatic Denial-of-Service Prevention, Restricted Management Access (ACLs), Different privilege levels, configurable password policies, configurable number of login attempts, account locking, HTTPS certificate management, CLI/SNMP logging, Security Status Monitor, Audit Trail, Remote Authentication via RADIUS, Local User ManagementFurther 802.1x enhancements (Multi-client authentication per port, MAC Authentication Bypass, RADIUS Policy Assignment), DHCP Snooping, Dynamic ARP Inspection, Extended wired speed Ingress ACLs (MAC,IPv4) per port and per VLAN, ACL flow based limiting, Time based ACL |

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| Redundancy functions | IEC62439-3 redundancy Fast MRP, PRP (Parallel Redundancy Protocol) and HSR (High Available Seamless Ring), default HSR, MRP (Media Redundancy Protocol IEC62439-2), RSTP 802.1D-2004 (IEC62439-1), Link Aggregation (2 LAG), Link backup, MRP over Link Aggregation, Sub Ring Manager, VRRP with HiVRRP extension |
| Filter | QoS (8 classes), CoS queue management, interface trust mode, TOS/DSCP prioritization, port priority (IEEE802.1D/p), VLAN (IEEE802.1Q), Voice VLAN, IGMP snooping/querier per VLAN (v1/v2/v3), unknown multicast filtering, independent VLAN learning, static unicast/multicast address entries, fast aging, MVRP (Multiple VLAN Registration Protocol), MMRP (Multiple MAC Registration Protocol), MRP (Multiple Registration Protocol)Protocol based VLAN, MAC based VLAN, IP subnet based VLAN, IP Ingress DiffServ classification and policing |
| Industrial Profiles | IEC61850 protocol (MMS Server, Switch Model) |
| Time synchronisation | PTPv2 TC two-step, SNTP server and client, Buffered RTC |
| Flow control | Flow control (IEEE802.3X), egress interface shaping, ingress storm protection, Queue-Shaping / max. Queue Bandwidth |
| Miscellaneous | Port power down, cable crossing, dual software image support, VLAN unaware mode, access to management restricted by VLAN |
| Layer 3 | Full wired speed IPv4 routing with lowest latencyPort based Routing (up to 28 interfaces), VLAN based Routing ( up to 8 interfaces), Static Unicast Routing (up to 64 IPv4 routes and 512 ARP Entries), Static Route Tracking, Proxy ARP, VRRP with HiVRRP extension, VRRP tracking, ICMP Filter, Loopback Interface, IGMP Proxy (Multicast Routing) |
| **Ambient conditions** | |
| Operating temperature | 0 ℃ ... 60 ℃ |
| Storage/transport temperature | -40 ℃ ... 70 ℃ |
| Relative humidity (non-condensing) | 10 % ... 95 % |
| **Mechanical construction** | |
| Dimensions (W x H x D) | 209 mm x 164 mm x 120 mm |
| Mounting | DIN Rail |
| Weight | 2.2kg plus media modules |
| Protection class | IP30 |
| **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) | 8 kV contact discharge, 15 kV air discharge |
| EN 61000-4-3 electromagnetic field | 35 V/m (80-2700 MHz); 1 kHz, 80% AM |
| EN 61000-4-4 fast transients (burst) | 4 kV power line, 4 kV data line |
| EN 61000-4-5 surge voltage | power line: 2 kV (line/earth), 1 kV (line/line), 2 kV data line IEEE1613: power line 5 kV (line/earth) |
| EN 61000-4-6 conducted immunity | 3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz) |
| EN 61000-4-16 mains frequency voltage | 30 V, 50 Hz continous; 300 V, 50 Hz 1 s |
| **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 | EN61131, EN 60950 |
| Substation | IEC 61850, IEEE 1613 |
| **Scope of delivery and accessories** | |
| Scope of delivery | Device, terminal block, operating manual |

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