Product information
Managed Fast Ethernet RSP Switches - RSP20-11003Z6TTTK9V9HSE2S02.0.

Name
Managed Fast Ethernet RSP Switches

Managed, Industrial Switch DIN Rail, fanless design.

Availability
available

Product description
Managed, Industrial Switch DIN Rail, fanless design.

Port type and quantity
11 ports in total, Ports Fast Ethernet: 8 x 10/100BASE TX, RJ45; Gigabit Ethernet Ports: 3; Uplink Ports: 3 x SFP slot (100 Mbit)

Type
RSP20-11003Z6TTTK9V9HSE2S02.0.

Order No.
942 053-999

More interfaces
Power supply/signaling contact
1 x steckbarer Klemmblock 3-polig, 1 x steckbarer Klemmblock 2-polig

V.24 interface
1 x RJ11 socket

SD-card slot
1 x SD card slot to connect the auto configuration adapter ACA31

Network size - length of cable
Twisted pair (TP)
0 m ... 100 m

Multimode fiber (MM) 50/125 µm
see SFP UML-Modul M-Fast SFP-xx

Multimode fiber (MM) 62.5/125 µm
see SFP UML-Modul M-Fast SFP-xx

Single mode fiber (SM) 9/125 µm
see SFP UML-Modul M-Fast SFP-xx

Single mode fiber (LH) 9/125 µm (long haul transceiver)
see SFP UML-Modul M-Fast SFP-xx

Network size - cascaddibility
Line - / star topology
any

Power requirements
Operating voltage
1 x 60/110/125/220/250 VDC (45 V-320 VDC) and 110/120/220/230 VAC (88-265 VAC)

Software
Management
Serial interface V.24 web-interface, Telnet, SSHv2, HTTP, TFTP, SFTP, SNMP v1/v2/v3, Traps, LLDP-MED

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

Configuration
Command line interface (CLI), WEB based management, full featured MIB support, BOOTP/DHCP client with auto configuration, DHCP option 82, AFS-Finder, Configuration Recovery Adapter (CRA-SD), Automatic configuration undos (roll-back), text based configuration file, CLI scripting, Telnet

Security
Enhanced encryption (>56 Bit, up to 256Bit DES) Management access; MAC based port security. Authentication (IEEE802.1x), Guest/unauthenticated VLAN, Radius client, Restricted management access, Local user accounts, different privilege levels, management authentication via RADIUS, account locking, configurable password policy, account locking, audit trail, configurable login attempts, HTTPS certificate management, CLI/SNMP logging, DoS prevention (e.g. TCP SYN&FIN, UDP source=destination port, TCP fragment)

Redundancy functions
RSTP (IEEE802.1D-2004), MRP; default Standard

Filter
GoS (8 classes), CoS queue management, interface trust mode, TOS/DSCP prioritization, port priority (IEEE802.1p), 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

Time synchronization
PTPv2 TC two-step, SNTP server and client, Buffereed RTC

Flow control
Flow control (IEEE802.3x), egress interface shaping, ingress storm protection

Miscellaneous
Port power down, cable crossing, dual image support, VLAN unaware mode, access to management restricted by VLAN

Ambient conditions
Operating temperature
-40 °C ... 70 °C

Note
IEC 60068-2-2 Dry Heat Test +85°C 16 Hours

Storage/transport temperature
-40 °C ... 85 °C
### Industrial Ethernet: Power Rail Switches: RSP Switches: with HiOS 2.0: Managed Fast Ethernet RSP Switches


<table>
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<tr>
<th>Specification</th>
<th>Details</th>
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<tr>
<td>Relative humidity (non-condensing)</td>
<td>10 % … 95 %</td>
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<td>Mechanical construction</td>
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<tr>
<td>Dimensions (W x H x D)</td>
<td>98 mm x 164 mm x 120 mm</td>
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<tr>
<td>Mounting</td>
<td>DIN Rail</td>
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<tr>
<td>Weight</td>
<td>1500 g</td>
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<tr>
<td>Protection class</td>
<td>IP30</td>
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<td>Mechanical stability</td>
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<tr>
<td>IEC 60068-2-27 shock</td>
<td>15 g, 11 ms duration, 18 shocks</td>
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<td>IEC 60068-2-6 vibration</td>
<td>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</td>
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<td>EMC interference immunity</td>
<td></td>
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<tr>
<td>EN 61000-4-2 electrostatic discharge (ESD)</td>
<td>8 kV contact discharge, 15 kV air discharge</td>
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<td>EN 61000-4-3 electromagnetic field</td>
<td>35 Vm (80-2700 MHz), 1 kV, 30% AM</td>
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<td>EN 61000-4-4 fast transients (burst)</td>
<td>4 kV power line, 4 kV data line</td>
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<td>EN 61000-4-5 surge voltage</td>
<td>power line: 2 kV (line/earth), 1 kV (line/line), 1 kV data line IEEE1613: power line 5 kV (line/earth)</td>
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<td>EN 61000-4-6 conducted immunity</td>
<td>3 V (10 Hz-150 kHz), 10 V (150 kHz-80 MHz)</td>
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<td>EN 61000-4-16 mains frequency voltage</td>
<td>30 V, 50 Hz continuous, 300 V, 50 Hz 1 s</td>
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<td>EMC emitted immunity</td>
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<tr>
<td>FCC CFR47 Part 15</td>
<td>FCC 47 CFR 15: Class A</td>
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<td>IEC 61850-3, IEEE 1613</td>
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<td>Scope of delivery and accessories</td>
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<tr>
<td>Scope of delivery</td>
<td>Device, terminal block, operating manual</td>
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For more information please contact:
Hirschmann Automation and Control GmbH
Stuttgarter Strasse 45-51
72654 Neckartenzlingen
Germany
Phone: +49 7127/14-1809
E-Mail: inet-sales@belden.com

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