



Product information Managed Gigabit Ethernet RSP Switches - RSP35-0803306TTEK9V9HPE2S03.0.

Industrial Ethernet:Power Rail Switches:RSP Switches:with HiOS 3.0:Managed Gigabit Ethernet RSP Switches

<http://www.e-catalog.beldensolutions.com/link/57078-24455-202442-279205-402209-402211/en/RSP35-0803306TTEK9V9HPE2S03.0/ui/state>

Name	Managed Gigabit Ethernet RSP Switches
	
	Managed, Industrial Switch DIN Rail, fanless design. Fast Ethernet, Gigabit Uplink type. Enhanced Redundancy (PRP, Fast MRP, HSR).
Delivery informations	
Availability	available
Product description	
Description	Managed, Industrial Switch DIN Rail, fanless design. Fast Ethernet, Gigabit Uplink type. Enhanced Redundancy (PRP, Fast MRP, HSR).
Port type and quantity	11 Ports in total, thereof Fast Ethernet ports: 8 x 10/100BASE TX / RJ45; thereof Uplink ports: 3 x Gigabit Ethernet SFP slots (1000 Mbit).
Type	RSP35-0803306TTEK9V9HPE2S03.0.
Order No.	RSP35-0803306TTEK9V9HPE2S03.0.
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 LWL-Modul M-SFP-SX/LC and M-SFP-LX/LC
Multimode fiber (MM) 62.5/125 µm	see SFP LWL-Modul M-SFP-SX/LC and M-SFP-LX/LC
Single mode fiber (SM) 9/125 µm	see SFP LWL-Modul M-SFP-LX/LC
Single mode fiber (LH) 9/125 µm (long haul transceiver)	see SFP LWL-Modul M-SFP-LH/LC and M-SFP-LH+/LC
Network size - cascability	
Line - / star topology	any
Power requirements	
Operating voltage	1 x 60/110/125/220/250 VDC (48 V-320 VDC) and 110/120/220/230 VAC (88-265 VAC)
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
Configuration	Command line interface (CLI), WEB based management, full 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 (SD card), 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, Authentication (IEEE802.1x), Radius client, RADIUS VLAN assignment, Guest/unauthenticated VLAN, 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, UPD source=destination port, TCP fragment), Integrated Authentication Server (IAS), ACL: VLAN and Ingress VLAN based
Redundancy functions	MRP, RSTP 802.1D-2004, Link Aggregation (2 LAG), MRP over Link Aggregation, Link backup; default PRP
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)
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 image support, VLAN unaware mode, access to management restricted by VLAN



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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
Relative humidity (non-condensing)	10 % ... 95 %
Protective paint on PCB	Yes (conformal coating)

Mechanical construction

Dimensions (W x H x D)	98 mm x 164 mm x 120 mm
Mounting	DIN Rail
Weight	1500 g
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), 1 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 continuous; 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

Railway norm	EN50121-4
Substation	IEC 61850-3, IEEE 1613
Transportation	NEMA TS2 (pending)

Scope of delivery and accessories

Scope of delivery	Device, terminal block, operating manual
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