



## Product information Compact OpenRail Gigabit Ethernet Switch 8-24 ports - RS30-1602T1T1SDAEHH08.0.

Industrial Ethernet: Compact configurable managed switches: with Firmware Release 8: Compact OpenRail Gigabit Ethernet Switch 8-24 ports

<http://e-catalog.hirschmann.com/link/57078-24455-49854-374156-373458/en/RS30-1602T1T1SDAEHH08.0/uistate>

<b>Name</b>	Compact OpenRail Gigabit Ethernet Switch 8-24 ports
	
	18 port Gigabit/Fast-Ethernet-Switch (2 x Gigabit Ethernet, 16 x Fast Ethernet), managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design
<b>Delivery informations</b>	
<b>Availability</b>	available
<b>Product description</b>	
<b>Description</b>	18 port Gigabit/Fast-Ethernet-Switch (2 x Gigabit Ethernet, 16 x Fast Ethernet), managed, software Layer 2 Enhanced, for DIN rail store-and-forward-switching, fanless design
<b>Port type and quantity</b>	18 Ports in total, 2 Gigabit Ethernet ports; 1. uplink: 10/100/1000BASE-TX, RJ45; 2. uplink: 10/100/1000BASE-TX, RJ45; 16 x standard 10/100 BASE TX, RJ45
<b>Type</b>	RS30-1602T1T1SDAEHH08.0.
<b>Order No.</b>	943 434-033
<b>More Interfaces</b>	
<b>Power supply/signaling contact</b>	1 x plug-in terminal block, 6-pin
<b>V.24 interface</b>	1 x RJ11 socket
<b>USB interface</b>	1 x USB to connect the AutoConfiguration Adapter ACA21-USB
<b>Network size - length of cable</b>	
<b>Twisted pair (TP)</b>	0 m ... 100 m
<b>Network size - cascadiability</b>	
<b>Line - / star topology</b>	any
<b>Ring structure (HIPER-Ring) quantity switches</b>	50 (reconfiguration time < 0.3 sec.)
<b>Power requirements</b>	
<b>Operating voltage</b>	12/24/48 V DC (9,6-60) V and 24 V AC (18-30) V (redundant)
<b>Current consumption at 24 V DC</b>	542 mA
<b>Current consumption at 48 V DC</b>	271 mA
<b>Power output in Btu (IT) h</b>	44.4
<b>Software</b>	
<b>Management</b>	Serial interface, web interface, SNMP V1/V2, HiVision file transfer SW HTTP/TFTP
<b>Diagnostics</b>	LEDs, log-file, relay contact, RMON, port mirroring 1:1, topology discovery 802.1AB, address conflict detection, network error detection, SFP diagnostic (temperature, optical input and output power (µW and dBm)), Trap for configuration saving and changing, duplex mismatch detection, disable learning.
<b>Configuration</b>	Comand line interface (CLI), TELNET, BootP, DHCP, DHCP option 82, HiDiscovery, easy device exchange with auto-configuration adapter ACA21-USB (automatic software and/or configuration upload), automatic invalid configuration undo, configuration signature (water marking)
<b>Security</b>	Port Security (IP und MAC) with multiple addresses, SNMP V3 (no encryption)
<b>Redundancy functions</b>	HIPER-ring (ring structure), MRP (IEC-ring functionality), RSTP 802.1D-2004, redundant network/ring coupling, MRP and RSTP in parallel, redundant 24 V power supply
<b>Filter</b>	QoS 4 classes, port prioritisation (IEEE 802.1D/p), VLAN (IEEE 802.1Q), shared VLAN learning, multicast (IGMP Snooping/Querier), multicast detection unknown multicast, broadcastlimiter, fast aging
<b>Industrial Profiles</b>	EtherNet/IP and PROFINET (2.2 PDEV, GSDML stand-alone generator, automatic device exchange) profiles included, configuration and diagnostic via automation software tools like e.g. STEP7, or Control Logix
<b>Time synchronisation</b>	SNTP client/server, PTP / IEEE 1588
<b>Flow control</b>	Flow control 802.3x, port priority 802.1D/p, priority (TOS/DIFFSERV)
<b>Presettings</b>	Standard
<b>Ambient conditions</b>	
<b>Operating temperature</b>	0 °C ... 60 °C
<b>Storage/transport temperature</b>	-40 °C ... 70 °C



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Relative humidity (non-condensing)	10 % ... 95 %
MTBF	39.7 years (MIL-HDBK-217F)
Protective paint on PCB	No
<b>Mechanical construction</b>	
Dimensions (W x H x D)	110 mm x 131 mm x 111 mm
Mounting	DIN Rail
Protection class	IP20
<b>Mechanical stability</b>	
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
<b>EMC interference immunity</b>	
EN 61000-4-2 electrostatic discharge (ESD)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	10 V/m (80-1000 MHz)
EN 61000-4-4 fast transients (burst)	2 kV power line, 1 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	3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz)
<b>EMC emitted immunity</b>	
FCC CFR47 Part 15	FCC 47 CFR Part 15 Class A
EN 55022	EN 55022 Class A
<b>Approvals</b>	
Safety of industrial control equipment	cUL 508
Hazardous locations	ISA 12.12.01 Class 1 Div. 2
Shipbuilding	n/a
Railway norm	n/a
Substation	n/a
<b>Scope of delivery and accessories</b>	
Scope of delivery	Device, terminal block, operating manual

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