



Product: BRS42-8TX/4SFP-B

4x Gig SFP, 8x Gig TX, 48/54 V DC, 0 - +60°C, HiOS L2S, PoE+

Product Description

Managed Industrial Switch for DIN Rail, fanless design All Gigabit type , power sourcing equipment in accordance with IEEE 802.3at (PoE+ inline power) , max. PoE power 240 W

Technical Specifications

Product description

Туре:	BRS42-8TX/4SFP-B
Name:	BRS42-8TX/4SFP-B
Description:	Managed Industrial Switch for DIN Rail, fanless design All Gigabit type, power sourcing equipment in accordance with IEEE 802.3at (PoE+ inline power), max. PoE power 240 W
Software Version:	HiOS10.00
Part Number:	942170257
Port type and quantity:	12 Ports in total: 8x 10/100/1000BASE TX / RJ45, 4x 100/1000Mbit/s fiber ; 8 x PoE(+) Ports (phantom power) ; 1. Uplink: 2 x SFP Slot (100/1000 Mbit/s) ; 2. Uplink: 2 x SFP Slot (100/1000 Mbit/s) ; 2. Uplink: 2 x SFP Slot (100/1000 Mbit/s) ; 2. Uplink: 2 x SFP Slot (100/1000 Mbit/s) ; 2. Uplink: 2 x SFP Slot (100/1000 Mbit/s) ; 2. Uplink: 2 x SFP Slot (100/1000 Mbit/s) ; 3. Uplink: 2 x SFP Slot (100/1000 Mbit/s) ;

More Interfaces

Power supply/signaling contact:	1 x plug-in terminal block, 6-pin
Local Management and Device Replacement:	USB-C

Network size - length of cable

Twisted pair (TP):	0 - 100 m
Single mode fiber (LH) 9/125 µm (long haul transceiver):	see SFP fiber modules
Multimode fiber (MM) 50/125 µm:	see SFP fiber modules
Multimode fiber (MM) 62.5/125 µm:	see SFP fiber modules

Network size - cascadibility

Line - / star topology: any

Power requirements

Operating Voltage:	2 x (48 VDC (PoE)/ 54 VDC (PoE+))
Power consumption:	max. 252 W with 240W PoE
Power output in BTU (IT)/h:	max. 41

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, Queue-Shaping / Max. Queue Bandwidth, Flow Control (802.3X), Egress Interface Shaping, Ingress Storm Protection, Jumbo Frames, VLAN (802.1Q), GARP VLAN Registration Protocol (GVRP), Voice 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), Link Aggregation with LACP, Link Backup, Media Redundancy Protocol (MRP) (IEC62439-2), Redundant Network Coupling, RSTP 802.1D-2004 (IEC62439-1), RSTP Guards
Management:	Dual Software Image Support, TFTP, SFTP, SCP, LLDP (802.1AB), LLDP-MED, SSHv2, HTTP, HTTPS, Traps, SNMP v1/v2/v3, Telnet, IPv6 Management

Diagnostics:	Management Address Conflict Detection, MAC Notification, Signal Contact, Device Status Indication, TCPDump, LEDs, Syslog, Persistent Logging on ACA, 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, Port Mirroring N:2, System Information, Self-Tests on Cold Start, Copper Cable Test, SFP Management, Configuration Check Dialog, Switch Dump
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 ACA21/22 (USB), HiDiscovery, USB-C Management support, Command Line Interface (CLI), CLI Scripting, CLI script handling over ENVM at boot, Full-featured MIB Support, Context-sensitive Help, HTML5 based Management
Security:	ISASecure CSA / IEC 62443-4-2 certified, MAC-based Port Security, Port-based Access Control with 802.1X, Guest/unauthenticated VLAN, Integrated Authentication Server (IAS), RADIUS VLAN Assignment, Denial-of-Service Prevention, DoS Prevention Drop Counter, VLAN-based ACL, Ingress VLAN-based ACL, Basic ACL, 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, BC with Up to 8 Sync / s , 802.1AS, 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, PoE (802.3af), PoE+ (802.3at), PoE+ Manual Power Management, PoE Fast Startup

Ambient conditions

MTBF (Telecordia SR-332 Issue 3) @ 25°C:	2 622 278 h
Operating temperature:	0-+60

Mechanical construction

Dimensions (WxHxD):	73 mm x 138 mm x 115 mm
Weight:	550 g
Housing:	PC-ABS
Mounting:	DIN Rail
Protection class:	IP30

Mechanical stability

IEC 60068-2-6 vibration:	5 Hz 8,4 Hz with 3,5 mm amplitude; 2 Hz 13,2 Hz with 1 mm amplitude; 8,4 Hz 200 Hz with 1 g; 13,2 Hz 100 Hz with 0,7 g
IEC 60068-2-27 shock:	15 g, 11 ms duration

EMC interference immunity

EN 61000-4-2 electrostatic discharge (ESD):	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field:	10 V/m (80-2000 MHz); 5 V/m (2000-2700 MHz); 3 V/m (5100-6000 MHz)
EN 61000-4-4 fast transients (burst):	2 kV power line, 2 kV data line
EN 61000-4-5 surge voltage:	power line: 2 kV (line/earth) and 1 kV (line/line); data line: 2 kV
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, EN62368-1
Safety of industrial control equipment:	cUL61010

Reliability

Guarantee:	60 months (please refer to the terms of guarantee for detailed information)
Scope of delivery and accessories	

4		AutoConfiguration Adapter ACA22-USB-C (EEC) 942239001; 6-pin terminal block with screw lock (50 pieces) 943 845-013; 2-pin terminal block with screw lock (50 pieces) 943 845-009; Industrial HiVision Network Management Software 943 156-xxx	
:	Scope of delivery:	1 × Device, 1 × Safety and general information sheet, 1 × Terminal block for supply voltage and signal contact, 1 × Terminal block for the digital input depending on device variant, 2 × Ferrites with key depending on device variant	

Further Instructions

Product Documentation:	https://www.doc.hirschmann.com/index.html
Certificates:	https://www.doc.hirschmann.com/certificates.html

History

Update and Revision: Revision Number: 0.16 Revision Date: 02-12-2025

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