

Product No: 942 197-003

HIRSCHMANN DATA DIODE FOR 24V OPERATING VOLTAGE WITH TRAIN APPROVALS 942197003

FEATURES

- The RDD20 devices consist of 2 independent DATA IN and DATA OUT routers
- Within the device there is a continuous unidirectional data connection
- Data transmission is only possible from DATA IN to DATA OUT



General Information	
Brand	HIRSCHMANN
Product Type	Data Diode
Series	RAIL DATA
Software Configuration	Automatic Configuration Undo (roll-back), Configuration Fingerprint, Text-based Configuration File (XML), BOOTP/DHCP Client with Auto-Configuration, DHCP Server: per Port DHCP Server: Pools per VLAN, AutoConfiguration Adapter ACA31 (SD card), HiDiscovery, DHCP Relay with Option 82, Command Line Interface (CLI), CLI Scripting Full-featured MIB Support, Web-based Management Context-sensitive Help, Backup config on a remote server when saving, Clear config but keep IP settings, CLI script handling over ENVIRONMENT at boot, HTML5 based Management
Software Diagnostics	Management Address Conflict Detection, MAC Notification, Signal Contact, Device Status Indication, TCPDump, LEDs, Syslog, Persistent Logging on ACA, Email Notification, 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, RSPAN, SFLOW, VLAN Mirroring, System Information, Self-Tests on Cold Start, Copper Cable Test, SFP Management, Configuration Check Dialog, Switch Dump, Snapshot Configuration Feature
Software Management	DNS Client, Dual Software Image Support, TFTP, SFTP, SCP LLDP (802.1AB), LLDP-MED, SSHv2, V.24,

HTTP, HTTPS, Traps, SNMP v1/v2/v3, Telnet, OPC-UA Server

Software Miscellaneous	Port Power Down, Manual Cable Crossing
Software Redundancy	HIPER-Ring (Ring Switch) HIPER-Ring over Link Aggregation Link Aggregation with LACP Link Backup Media Redundancy Protocol (MRP) (IEC62439-2) MRP over Link Aggregation Sub Ring Manager RSTP 802.ID-2004 (IEC62439-1) RSTP Guards VRRP VRRP Tracking HiVRRP (VRRP enhancements) Redundant Network Coupling
Software Security	MAC-based Port Security, Port-based Access Control with 802.IX, Guest/unauthenticated VLAN, Integrated Authentication Server (IAS), RADIUS VLAN Assignment, RADIUS Policy Assignment, Multi-Client Authentication per Port, MAC Authentication Bypass, DHCP Snooping, Dynamic ARP Inspection, Automatic Denial-of-Service Prevention, LDAP, Ingress MAC-based ACL, Ingress IPv4-based ACL, Time-based ACL, VLAN-based ACL, Ingress VLAN-based ACL, ACL Flow-based Limiting, 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
Software Switchng	Independent VLAN Learning, Fast Aging, Static Unicast/Multicast Address Entries, QoS / Port Prioritization (802.ID/p), TOS/DSCP Prioritization, Interface Trust Mode, CoS Queue Management, IP Ingress DiffServ Classification and Policing, Queue-Shaping / Max. Queue Bandwidth, Flow Control (802.3X), Egress Interface Shaping, Ingress Storm Protection, Jumbo Frames, VLAN (802.1Q), Protocol-based VLAN, VLAN Unaware Mode, Voice VLAN, MAC-based VLAN, IP subnet-based VLAN, 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), Jumbo Frames, Layer 2 Loop Protection

Client, SNTP Server PTPv2 Transparent Clock two-step, PTPv2 Boundary Clock, Buffered Real Time Clock, SNTP Client, SNTP Server

Technical Attributes

Electromagnetic Capability	20 V/m (80 .. 1000 MHz) 10 V/m (1400 .. 2000 MHz) 5 V/m (2000 .. 2700 MHz) 3 V/m (5100 .. 6000 MHz)
Electrostatic Discharge (kV)	6 kV Contact Discharge, 8 kV Air Discharge
Mean Time Between Failure (MTBF)	159.3 h
Network Configuration	any
No. of Pins	2
Nominal Power (W)	23
Operating Voltage Range	2 x 24V DC (16.8 - 32 VDC)
Power Consumption (W)	23
Rated Maximum Operational Voltage DC (V)	32
Rated Minimum Operational Voltage DC (V)	16.8
Resistance to Vibrations	Operating: 5 Hz .. 150 Hz Broadband Noise Vertical: 1,0 m/s ² (rms) Horizontal: 0,7 m/s ² (rms) Not Operating: 5 Hz .. 150 Hz Broadband Noise Vertical: 7,9 m/s ² (rms) Horizontal: 5,5 m/s ² (rms)
Software	HiOS 09.0.06
Surge Voltage (kV)	2 kV (Line / Ground), 1 kV (Line / Line) Power Supply 2 kV (Line/Earth) Data Line
Terminal Type	2 x Plug-In Terminal Block, 3- pin, 1 x Plug-In Terminal Block
Transition Type	2 kV power line, 2 kV data line

Physical Attributes

Maximum Temperature (°C)	70
Minimum Temperature (°C)	-40
Mounting Type	DIN Rail
Operational Temperature Range (°C)	-40 - 70

Storage Temperature Range (°C)	-40 - 85
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Dimensions

Cable Length (m)	0 - 100
Dimensions (mm)	146W x 164H x 120D
Weight (g)	2200

Protection & Standards

Degree of Protection	IP20
Standards	CE, EN 60131-2

Resources

Product catalogue (Flipbook)	Download from here
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