

Product No: 942 027-002

HIRSCHMANN MANAGED 20-PORT FULL GIGABIT 19" SWITCH WITH POEP AND L3, EXTERNAL PSU 942027002

FEATURES

- 20 Port Gigabit Ethernet Industrial Workgroup Switch (16 x GE TX PoEPlus Ports (4 x GE SFP combo Ports)
- Software Layer 3 Professional
- Store-and-Forward-Switching
- fan less Design
- IPv6 Ready



General Information	
Brand	HIRSCHMANN
Product Type	Managed
Series	MACH104
Software Configuration	AutoConfiguration Adapter ACA11 Limited Support (RS20/30/40, MS20/30), Automatic Configuration Undo (roll-back), Configuration Fingerprint, BOOTP/DHCP Client with Auto-Configuration, DHCP Server: per Port, DHCP Server: Pools per VLAN, DHCP Server: Option 43, AutoConfiguration Adapter ACA21/22 (USB), HiDiscovery, DHCP Relay with Option 82, Command Line Interface (CLI), CLI Scripting, Full-featured MIB Support, Web-based Management, Context-sensitive Help
Software Diagnostics	Management Address Conflict Detection, Address Relearn Detection, MAC Notification, Signal Contact, Device Status Indication, TCPDump, LEDs, Syslog, 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, System Information, Self-Tests on Cold Start, Copper Cable Test, SFP Management, Configuration Check Dialog, Switch Dump
Software Industrial Profiles	EtherNet/IP Protocol, PROFINET IO Protocol
Software Management	Dual Software Image Support, TFTP, LLDP (802.1AB), LLDP-MED, SSHv1, SSHv2, V.24, HTTP, HTTPS, Traps, SNMP v1/v2/v3, Telnet

Management, Manual Cable Crossing

Software Redundancy

Advanced Ring Configuration for MRP, HIPER-Ring (Manager), HIPER-Ring (Ring Switch), Fast HIPER-Ring, Link Aggregation with LACP, Media Redundancy Protocol (MRP) (IEC62439-2), Redundant Network Coupling, RSTP 802.1D-2004 (IEC62439-1), MSTP (802.1Q), RSTP Guards, RSTP over MRP, VRRP, VRRP Tracking, HiVRRP (VRRP enhancements)

Software Security

IP-based Port Security, MAC-based Port Security, Port-based Access Control with 802.1X, Guest/unauthenticated VLAN, RADIUS VLAN Assignment, Multi-Client Authentication per Port, MAC Authentication Bypass, Ingress MAC-based ACL, Ingress IPv4-based ACL, Ingress VLAN-based ACL, Access to Management restricted by VLAN, HTTPS Certificate Management, Restricted Management Access, Appropriate Use Banner, SNMP Logging, Local User Management, Remote Authentication via RADIUS

Software Switching

Traffic Shaping, Disable Learning (hub functionality), Independent VLAN Learning, Fast Aging, Static Unicast/Multicast Address Entries, QoS / Port Prioritization (802.1D/p), TOS/DSCP Prioritization, CoS Queue Management, Egress Broadcast Limiter per Port, Flow Control (802.3X), Jumbo Frames, VLAN (802.1Q), Protocol-based VLAN, GARP VLAN Registration Protocol (GVRP), Double VLAN Tagging (QinQ), Voice VLAN, GARP Multicast Registration Protocol (GMRP), IGMP Snooping/Querier (v1/v2/v3)

Software Time Synchronization

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

Technical Attributes

Electromagnetic Capability

10 V/m (80-3000 MHz)

Electrostatic Discharge (kV)

4 kV Contact Discharge, 8 kV Air Discharge

Mean Time Between Failure (MTBF)

187299 h

Network Configuration

any

No. of Ethernet Ports

16

No. of Fiber Ports

4

No. of Pins	2
Nominal Power (W)	30
Operating Voltage Range	45 - 57V DC (Min. 52V DC for PoEPlus)
Power Consumption (W)	30
Power Output in BTU (IT)/h	119
Rated Maximum Operational Voltage DC (V)	57
Rated Minimum Operational Voltage DC (V)	45
Resistance to Vibrations	3.5 mm, 5–8.4 Hz, 10 cycles, 1 octave/min 1 g, 8.4–150 Hz, 10 cycles, 1 octave/min
Surge Voltage (kV)	Power Line: 2 kV (Line/Earth), 1 kV (Line/Line), 4 kV Data Line
Terminal Type	1 x Plug-In Terminal Block
Transition Type	2 kV power line, 4 kV data line

Physical Attributes

Maximum Temperature (°C)	50
Minimum Temperature (°C)	0
Mounting Type	19" Control Cabinet
Operational Temperature Range (°C)	0 - 50
Relative Humidity	10–95 %

Dimensions

Cable Length (m)	0 - 100
Dimensions (mm)	448W x 44H x 345D
Weight (g)	4500

Protection & Standards

Degree of Protection	IP20
Standards and Approvals	EN50121-4

Resources

Product catalogue (Flipbook)	Download from here
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