

## Product No: 942 030-002

### HIRSCHMANN MANAGED 20-PORT FULL GIGABIT 19" SWITCH WITH POEP AND L3 942030002

#### FEATURES

- 20 Port Gigabit Ethernet Industrial Workgroup Switch (16 x GE TX PoEPlus Ports)
- Software Layer 3 Professional
- Store-and-Forward-Switching
- 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   |
| Software Miscellaneous       | PoE (802.3AF), PoE+ (802.3AT), PoE+ Manual Power 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 |
| Frequency Range (Hz)             | 50 - 60                                    |
| Mean Time Between Failure (MTBF) | 131722 h                                   |
| Network Configuration            | any  |
| No. of Ethernet Ports            | 16   |
| No. of Fiber Ports               | 4  |

|  |   |
|--|---|
| No. of Pins                              | 2   |
| Nominal Power (W)                        | 35  |
| Operating Voltage Range                  | 100 - 240 V AC  |
| Power Consumption (W)                    | 35  |
| Power Output in BTU (IT)/h               | 119   |
| Rated Maximum Operational Voltage AC (V) | 240   |
| Rated Minimum Operational Voltage AC (V) | 110   |
| Resistance to Vibrations                 | 3.5 mm, 5–8.4 Hz, 10 cycles, 1 octave/min<br>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<br>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) | <a href="#">Download from here</a> |
|------------------------------|------------------------------------|