

Product: GRS1020-8T8ZSMMV9HHSE2S

Configurator: GREYHOUND 1020/30 Switch configurator



Configurator Description

Fast/Gigabit Ethernet switch designed for use in harsh industrial environments with a need for cost-effective, entry-level devices. Up to 28 ports thereof 20 in the basic unit and in addition a media module slot that allow customers to add or change 8 additional ports in the field.

Technical Specifications

Product description

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|------------------------|--|
| Type | GRS1020-8T8ZSMMV9HHSE2S |
| Description | Industrial managed Fast Ethernet Switch, 19" rack mount, fanless Design according to IEEE 802.3, Store-and-Forward-Switching |
| Part Number | 942123204 |
| Port type and quantity | Ports in total up to 24 x Fast Ethernet Ports, Basic unit: 16 FE ports, expandable with media module with 8 FE ports |

More Interfaces

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| Power supply/signaling contact | Power Supply 1: power supply 3 pin plug-in terminal block, signal contact 2 pin plug-in terminal block ; Power Supply 2: power supply 3 pin plug-in terminal block |
| V.24 interface | 1 x RJ45 socket |
| USB interface | 1 x USB to connect auto-configuration adapter ACA22-USB |

Network size - length of cable

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

Network size - cascading

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| Line - / star topology | any |
|------------------------|-----|

Power requirements

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| Operating Voltage | Power Supply 1: 110 - 250 VDC (88 V - 288 VDC) and 110 - 240 VAC (88 V - 276 VAC) Power Supply 2: 110 - 250 VDC (88 V - 288 VDC) and 110 - 240 VAC (88 V - 276 VAC) |
| Power consumption | 15 W |
| Power output in BTU (IT)/h | 51 |

Software

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| 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, Flow Control (802.3X), Egress Interface Shaping, Ingress Storm Protection, VLAN (802.1Q), VLAN Unaware Mode, Voice 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), GARP VLAN Registration Protocol (GVRP), GMRP |
| Redundancy | Link Aggregation with LACP, Link Backup, Media Redundancy Protocol (MRP) (IEC62439-2), Sub Ring Manager, RSTP 802.1D-2004 (IEC62439-1), RSTP Guards |
| Management | Dual Software Image Support, TFTP, SFTP, SCP, LLDP (802.1AB), LLDP-MED, SSHv2, V.24, HTTP, HTTPS, Traps, SNMP v1, v2, v3, Telnet |

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| 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, Snapshot Configuration Feature |
| 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, DHCP Relay with Option 82, Command Line Interface (CLI), CLI Scripting, CLI script handling over ENVN at boot, Full-featured MIB Support, Web-based Management, Context-sensitive Help, HTML5 based Management |
| Security | 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, 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 | Buffered Real Time Clock, SNTP Client, SNTP Server |
| Industrial Profiles | IEC61850 Protocol (MMS Server, Switch Model), ModbusTCP |
| Miscellaneous | Manual Cable Crossing, Port Power Down |

Ambient conditions

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| Operating temperature | 0-+60 °C |
| Storage/transport temperature | -40-+70 °C |
| Relative humidity (non-condensing) | 5-95 % |

Mechanical construction

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| Dimensions (WxHxD) | 448 mm x 44 mm x 315 mm |
| Weight | 3.94 kg |
| Mounting | Rack mount |
| Protection class | IP30 |

Mechanical stability

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| 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 |
| IEC 60068-2-27 shock | 15 g, 11 ms duration, 18 shocks |

EMC interference immunity

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| EN 61000-4-2 electrostatic discharge (ESD) | 8 kV contact discharge, 15 kV air discharge |
| EN 61000-4-3 electromagnetic field | 35 V/m (80-2700 MHz); 1 kHz, 80% AM |
| EN 61000-4-4 fast transients (burst) | 4 kV power line, 4 kV data line |
| EN 61000-4-5 surge voltage | power line: 2 kV (line/earth), 1 kV (line/line); data line: 1 kV; IEEE1613: power line 5kV (line/earth) |
| EN 61000-4-6 Conducted Immunity | 3 V (10 kHz-150 kHz), 10 V (150 kHz-80 MHz) |
| EN 61000-4-16 mains frequency voltage | 30 V, 50 Hz continuous; 300 V, 50 Hz 1 s |

EMC emitted immunity

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|-------------------|----------------------------|
| EN 55022 | EN 55032 Class A |
| FCC CFR47 Part 15 | FCC 47CFR Part 15, Class A |

Approvals

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| Basis Standard | CE, FCC, EN61131 |
| Safety of industrial control equipment | EN60950 |
| Substation | IEC61850, IEEE1613 |

Scope of delivery and accessories

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| Accessories | Terminal Cable, Network Management Industrial HiVision, ACA22, SFP |
| Scope of delivery | Device, terminal blocks , General safety instructions |

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