

**Product:** GRS2040-G0000-G0000-A00-TKKV9HHE2A99

**Configurator:** GREYHOUND 2000 configurator



## Configurator Description

The GREYHOUND 2000 switches' flexible design makes this a future-proof networking device that can evolve alongside your network's bandwidth and power needs. With a focus on maximum network availability under harsh industrial conditions. The devices allow you to set up switched industrial Ethernet networks that conform to the IEEE 802.3 standard.

## Technical Specifications

### Product description

|                        |                                                                                                                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description            | Industrial managed Full Gigabit Ethernet Switch , Management and Ethernet ports on front, power supply on rear , 19" Rack mounting, according to IEEE 802.3, fanless design , HiOS Software Level 2A |
| Port Type and Quantity | up to 34 ports in total, Port Group 5: 2 GE ports + Port Group 1 - 4: 32 FE/GE ports                                                                                                                 |
| Port Group 1           | 8 x SFP;                                                                                                                                                                                             |
| Port Group 2           | 8 x SFP;                                                                                                                                                                                             |
| Port Group 3           | 8 x SFP;                                                                                                                                                                                             |
| Port Group 4           | 8 x SFP;                                                                                                                                                                                             |
| Port Group 5           | 2 x SFP;                                                                                                                                                                                             |

### More Interfaces

|                                |                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Power supply/signaling contact | Power supply: 2 x 3-pin plug-in screw terminal block / Signaling: 1 x potential-free relay contact, 2-pin plug-in terminal block |
| SD-card slot                   | 1 x Micro SD card slot to connect the auto-configuration adapter ACA41                                                           |

### Power requirements

|                   |                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------|
| Operating Voltage | Power supply 1: 60-250 VDC and 100-240 VAC, 50 Hz - 60 Hz; Power supply 2: 60-250 VDC and 100-240 VAC, 50 Hz - 60 Hz |
|-------------------|----------------------------------------------------------------------------------------------------------------------|

### Software

|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switching            | CoS Queue Management, Double VLAN Tagging (QinQ), Egress Interface Shaping, Fast Aging, Flow Control (802.3X), Forward unknown multicast to query ports, GARP Multicast Registration Protocol (GMRP), GARP VLAN Registration Protocol (GVRP), IGMP Snooping/Querier per VLAN (v1/v2/v3), Independent VLAN Learning, Ingress Storm Protection, Interface Trust Mode, IP Egress DiffServ Classification and Policing, IP Ingress DiffServ Classification and Policing, IP subnet-based VLAN, Jumbo Frames, MAC-based VLAN, Multiple MAC Registration Protocol (MMRP), Multiple Registration Protocol (MRP), Multiple VLAN Registration Protocol (MVRP), Protocol-based VLAN, QoS / Port Prioritization (802.1D/p), Queue-Shaping / Max. Queue Bandwidth, Static Unicast/Multicast Address Entries, TOS/DSCP Prioritization, Unknown Multicast Filtering, VLAN (802.1Q), VLAN Unaware Mode, Voice VLAN                                                                                                                                                                                     |
| Redundancy           | High Availability Seamless Redundancy Protocol (HSR) (IEC62439-3), 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, MSTP (802.1Q), Redundant Network Coupling, RSTP 802.1D-2004 (IEC62439-1), RSTP Guards, Sub Ring Manager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Management           | DNS Client, Dual Software Image Support, HTTP, HTTPS, IPv6 Management, ITxPT Module Inventory, LLDP (802.1AB), LLDP-MED, OPC-UA Server, SCP, Service Discovery (bonjour), SFTP, SNMP v1/v2/v3, SNMPv1/v2 Read-Only, SNMPv3 Traps, SSHv2, Telnet, TFTP, Traps, V.24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Diagnostics          | Configuration Check Dialog, Copper Cable Test, Device Status Indication, Duplex Mismatch Detection, Email Notification, LEDs, Link Flap Detection, Link Speed and Duplex Monitoring, Loop Protection, MAC Notification, Management Address Conflict Detection, Overload Detection, Persistent Logging on ACA, Port Mirroring 1:1, Port Mirroring 8:1, Port Mirroring N:1, Port Monitoring with Auto-Disable, RMON (1,2,3,9), RSPAN, Self-Tests on Cold Start, SFLOW, SFP Management, Signal Contact, Switch Dump, Syslog, System Information, TCPDump, VLAN Mirroring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Configuration        | Auto Disable, AutoConfiguration Adapter ACA31 (SD card), Automatic Configuration Undo (roll-back), Backup config on a remote server when saving, BOOTP/DHCP Client with Auto-Configuration, Clear config but keep IP settings, CLI script handling over ENVN at boot, CLI Scripting, Command Line Interface (CLI), Configuration Fingerprint, Context-sensitive Help, DHCP Relay with Option 82, DHCP Server: per Port, DHCP Server: Pools per VLAN, Full-featured MIB Support, HiDiscovery, HTML5 based Management, Interface Shutdown via Tracking, XML-based Configuration File                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Security             | Access to Management restricted by VLAN, ACL Flow-based Limiting, Appropriate Use Banner, Audit Trail, CLI Logging, Configurable Number of Login Attempts, Configurable Password Policy, Denial-of-Service Prevention, Device Security Indication, DHCP Snooping, Dynamic ARP Inspection, Egress IPv4-based ACL, Egress MAC-based ACL, Egress VLAN-based ACL, Format options for MAC authentication bypass, Guest/unauthenticated VLAN, HTTPS Certificate Management, Ingress IPv4-based ACL, Ingress MAC-based ACL, Ingress VLAN-based ACL, Integrated Authentication Server (IAS), IP Source Guard, LDAP, Local User Management, MAC Authentication Bypass, MAC-based Port Security, Multi-Client Authentication per Port, Multiple Privilege Levels, Password change on first login, Port-based Access Control with 802.1X, RADIUS Client, RADIUS Policy Assignment, RADIUS VLAN Assignment, Remote Authentication via RADIUS, Restricted Management Access, Secure Boot, Signed Firmware Images, SNMP Logging, TACACS+ Client, Time-based ACL, User Account Locking, VLAN-based ACL |
| Time synchronisation | 802.1AS-2020, BC with Up to 8 Sync / s, Buffered Real Time Clock, PTPv2 Boundary Clock, PTPv2 Transparent Clock two-step, SNTP Client, SNTP Server                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| Industrial Profiles | IEC61850 Protocol (MMS Server, Modbus TCP, Switch Model) |
| Miscellaneous       | Manual Cable Crossing, Port Power Down                   |

### Ambient conditions

|                                    |                                             |
|------------------------------------|---------------------------------------------|
| Operating temperature              | -40-+70 °C                                  |
| Note                               | IEC 60068-2-2 Dry Heat Test +85 °C 16 Hours |
| Relative humidity (non-condensing) | 5-95 %                                      |

### Mechanical construction

|                      |                                               |
|----------------------|-----------------------------------------------|
| Dimensions (WxHxD)   | 444 mm x 44 mm x 344 mm                       |
| Weight               | 5.7 kg ... 6.5 kg depending on device variant |
| Mount Type           | Rack mount                                    |
| IP Protection Rating | IP30                                          |

### EMC interference immunity

|                                            |                                                                                                         |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------|
| 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

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

### Approvals

|                     |                                |
|---------------------|--------------------------------|
| Basis Standard      | CE; FCC; EN61131; EN62368-1    |
| Substation          | IEC 61850-3, IEEE1613          |
| Transportation      | NEMA TS2                       |
| Industrial Security | IEC 62443-4-2 Security Level 2 |

### Reliability

|           |                                                                                                                                 |
|-----------|---------------------------------------------------------------------------------------------------------------------------------|
| Guarantee | 60 months for the switch, 24 months for SFPs (please refer to the <a href="#">"terms of guarantee"</a> or detailed information) |
|-----------|---------------------------------------------------------------------------------------------------------------------------------|

### Scope of delivery and accessories

|                   |                                                                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Scope of delivery | basic unit including Rack-mounting brackets, connector for signal contact, 1 (2) connector for AC or DC Power input, General safety instructions, leaflet to ensure FOSS conformity, |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Further Instructions

|                       |                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------|
| Product Documentation | <a href="https://www.doc.hirschmann.com/index.html">https://www.doc.hirschmann.com/index.html</a>               |
| Certificates          | <a href="https://www.doc.hirschmann.com/certificates.html">https://www.doc.hirschmann.com/certificates.html</a> |
| Software Download     | <a href="https://www.doc.hirschmann.com/releasemap.html">https://www.doc.hirschmann.com/releasemap.html</a>     |

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