

**Product:** GRS2040-F0000-M0000-000-SKKZ9HHE2S99

**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 2S
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 TX;
Port Group 3	8 x TX;
Port Group 4	8 x TX;

### 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
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### Software

Switching	CoS Queue Management, Egress Interface Shaping, Fast Aging, Flow Control (802.3X), Forward unknown multicast to query ports, GARP VLAN Registration Protocol (GVRP), IGMP Snooping/Querier per VLAN (v1/v2/v3), Independent VLAN Learning, Ingress Storm Protection, Interface Trust Mode, Jumbo Frames, Multiple MAC Registration Protocol (MMRP), Multiple Registration Protocol (MRP), Multiple VLAN Registration Protocol (MVRP), 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	Link Aggregation with LACP, Link Backup, Media Redundancy Protocol (MRP) (IEC62439-2), RSTP 802.1D-2004 (IEC62439-1), RSTP Guards
Management	Dual Software Image Support, HTTP, HTTPS, IPv6 Management, LLDP (802.1AB), LLDP-MED, SCP, SFTP, SNMP v1/v2/v3, SNMPv3 Traps, SSHv2, Telnet, TFTP, Traps, V.24
Diagnostics	Configuration Check Dialog, Copper Cable Test, Device Status Indication, Duplex Mismatch Detection, LEDs, Link Flap Detection, Link Speed and Duplex Monitoring, 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), Self-Tests on Cold Start, SFP Management, Signal Contact, Switch Dump, Syslog, System Information, TCPDump
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 ENVm 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, XML-based Configuration File
Security	Access to Management restricted by VLAN, Appropriate Use Banner, Audit Trail, Basic ACL, CLI Logging, Configurable Number of Login Attempts, Configurable Password Policy, Denial-of-Service Prevention, Device Security Indication, Guest/unauthenticated VLAN, HTTPS Certificate Management, Ingress VLAN-based ACL, Integrated Authentication Server (IAS), Local User Management, MAC-based Port Security, Multiple Privilege Levels, Password change on first login, Port-based Access Control with 802.1X, RADIUS Client, RADIUS VLAN Assignment, Remote Authentication via RADIUS, Restricted Management Access, Secure Boot, Signed Firmware Images, SNMP Logging, 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	0-+60 °C
Note	IEC 60068-2-2 Dry Heat Test +85 °C 16 Hours

Relative humidity (non-condensing)	5-95 %
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## 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

## Mechanical stability

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

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
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)
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## 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,
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## 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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