

## Product: GRS2040-16TX/18SFP-2HV-2A

## Configurator: GRS2040-16TX/18SFP-2HV-2A



### 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

Type	GRS2040-16TX/18SFP-2HV-2A (Product code: GRS2040-G0000-M0000-A00-TKKVYHHE2A99)
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
Part Number	942336032
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 SFP;
Port Group 4	8 x TX;
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
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#### 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	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 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, 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
Safety of industrial control equipment	UL 62368-1
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> for 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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