

Product: GRS105-16TX/14SFP-1HV-2A

Configurator: GRS105-16TX/14SFP-1HV-2A



Configurator Description

The GREYHOUND GRS105, GRS106, GRS115, GRS116, GRS125, and GRS126 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 industrial conditions, these switches enable you to select the device's port count and type – even giving you the ability to use the GREYHOUND 105/106 series as a backbone switch.

Technical Specifications

Product description

Type	GRS105-16TX/14SFP-1HV-2A (Product code: GRS105-6F8F16TSG9Y9HHSE2A99XX.X.XX)
Description	GREYHOUND 105/106 Series, Managed Industrial Switch, fanless design, 19" rack mount, according to IEEE 802.3, 6x1/2.5GE +8xGE +16xGE
Part Number	942 287 004
Port Type and Quantity	30 Ports in total, 6x GE/2.5GE SFP slot + 8x GE SFP slot + 16x FE/GE TX ports

More Interfaces

Power supply/signaling contact	Power supply input 1: IEC plug, Signal contact: 2 pin plug-in terminal block
SD-card slot	1 x SD card slot to connect the auto configuration adapter ACA31
USB-C	1 x USB-C (client) for local management

Network size - length of cable

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 - cascadiability

Line - / star topology	any
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Power requirements

Operating Voltage	Power supply input 1: 110 - 240 VAC, 50 Hz - 60 Hz
Power Consumption	31 W
Power output in BTU (IT)/h	107

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
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, USB-C Management support, 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, Time-based ACL, User Account Locking, VLAN-based ACL
Time synchronisation	802.1AS, 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	EtherNet/IP Protocol, Modbus TCP, PROFINET Protocol
Miscellaneous	Manual Cable Crossing, Port Power Down

Ambient conditions

MTBF (Telcordia SR-332 Issue 3) @ 25°C	817 310
Operating temperature	-10 - +60
Minimum Storage Temperature	-20 - +70 °C
Relative humidity (non-condensing)	5-90 %

Mechanical construction

Dimensions (WxHxD)	444 x 44 x 310 mm
Weight	5 kg estimated
Mount Type	Rack mount
IP Protection Rating	IP30

Mechanical stability

IEC 60068-2-6 vibration	3.5 mm, 5 Hz – 8.4 Hz, 10 cycles, 1 octave/min.; 1 g, 8.4 Hz-200 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)	6 kV contact discharge, 8 kV air discharge
EN 61000-4-3 electromagnetic field	20 V/m (800-1000 MHz), 10V/m (80-800 MHz ; 1000-6000 MHz); 1 kHz, 80% AM
EN 61000-4-4 fast transients (burst)	2 kV power line, 4 kV data line STP, 2 kV data line UTP
EN 61000-4-5 surge voltage	power line: 2 kV (line/earth) and 1 kV (line/line); data line: 2 kV
EN 61000-4-6 Conducted Immunity	10 V (150 kHz - 80 MHz)

EMC emitted immunity

EN 55032	EN 55032 Class A
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Approvals

Basis Standard	CE, FCC, EN61131
Safety of information technology equipment	EN62368, cUL62368
Industrial Security	IEC 62443-4-2 Security Level 2

Reliability

Guarantee	60 months (please refer to the terms of guarantee or detailed information)
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Scope of delivery and accessories

Accessories to Order Separately	Network Management Industrial HiVision, ACA31, SFP/SFP+
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Scope of delivery	Device, General safety instructions
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Further Instructions

Product Documentation	https://www.doc.hirschmann.com/index.html
Certificates	https://www.doc.hirschmann.com/certificates.html
Software Download	https://www.doc.hirschmann.com/releasemap.html

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