

**Product:** GRS106-24TX/6SFP-1HV-2A

**Configurator:** GRS106-24TX/6SFP-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                   | GRS106-24TX/6SFP-1HV-2A (Product code: GRS106-6F8T16TSG9Y9HHSE2A99XX.X.XX)                                                                   |
| Description            | GREYHOUND 105/106 Series, Managed Industrial Switch, fanless design, 19" rack mount, according to IEEE 802.3, 6x1/2.5/10GE +8x1/2.5GE +16xGE |
| Part Number            | 942 287 007                                                                                                                                  |
| Port Type and Quantity | 30 Ports in total, 6x GE/2.5GE/10GE SFP(+) slot + 8x FE/GE/2.5GE TX ports + 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 |
|------------------------|-----|

### Power requirements

|                            |                                                    |
|----------------------------|----------------------------------------------------|
| Operating Voltage          | Power supply input 1: 110 - 240 VAC, 50 Hz - 60 Hz |
| Power Consumption          | 32 W                                               |
| Power output in BTU (IT)/h | 110                                                |

### 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 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, 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 | 698 628      |
| 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 |
|----------|------------------|

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 <a href="#">terms of guarantee</a> or detailed information) |
|-----------|--------------------------------------------------------------------------------------------|

Scope of delivery and accessories

|                                 |                                                         |
|---------------------------------|---------------------------------------------------------|
| Accessories to Order Separately | Network Management Industrial HiVision, ACA31, SFP/SFP+ |
|---------------------------------|---------------------------------------------------------|

|                   |                                     |
|-------------------|-------------------------------------|
| Scope of delivery | Device, General safety instructions |
|-------------------|-------------------------------------|

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>     |

© 2026 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.