

GREYHOUND 105/106 Ethernet Switches

High-performance industrial switches with
MACsec and PoE++

Product Bulletin



The flexible GREYHOUND 105/106 family solves today's toughest switching challenges. Choose from GREYHOUND 105/106 with 30 ports, GREYHOUND 115/116 with MACsec technology to enable enhanced network security and GREYHOUND 125/126 with up to 24 PoE++ ports.

- **High speed, high port density** in a compact design to meet emerging bandwidth needs and connect more network nodes.
- **Flexible design** with multiple configuration options, including MACsec and PoE++, so industrial organizations only buy the features they need.
- **Improved efficiency** with high-performance switching features and robust security offered by the best-in-class HiOS switch software.



Key features for the multiple variants

GREYHOUND 105/106 Switches

- 30 ports in 1U fanless rackmount enclosure—depending on the variants.
- Tri-speed fiber SFP slots (1, 2.5 and 10 Gigabit speeds) with up to 6 × 10 Gigabit Ethernet (GE) ports—depending on the variants.
- Operating temperature of -10°C to +60°C.
- Comprehensive HiOS software available for advanced security (Layer 2 or 3) with free updates in the field.
- Power supplies for many voltage ranges (24-48 V DC, 110-240 V AC, 110-250 V DC) with redundant power supplies also available - depending on the variants.

GREYHOUND 115/116 includes all GREYHOUND 105/106 features, plus:

- Support for the MACsec technology tackling the needs of enhanced network security through Layer 2 encryption and authentication.

GREYHOUND 125/126 includes all GREYHOUND 105/106 features, plus:

- PoE++ (60 W per port) for up to 24 ports and 600 W of total PoE budget.

With multiple configuration options, including MACsec and PoE++, it's easy to add connected devices to networks. Ensure seamless connections and unlock new possibilities for your business with the GREYHOUND 105/106 family.

Your benefits

Today, many organizations are renovating infrastructure to get networks to talk to each other and meet cybersecurity imperatives. It's the perfect time to deploy next-generation technologies, like smart heating, ventilation and air conditioning (HVAC) systems, or closed-circuit TV (CCTV) cameras.

But these and other connected devices come with high bandwidth and power needs. The answer: GREYHOUND 105/106 family, flexible, cost-effective switching solutions.

GREYHOUND 105/106 delivers high port density in a compact form for fast data transmission from field to enterprise.

GREYHOUND 115/116 enhances Layer 2 security with MACsec encryption and authentication, aligned with IEEE 802.1AE.

GREYHOUND 125/126 streamlines installation and lowers total cost of ownership by powering devices via PoE—no extra power supplies required.



Applications

GREYHOUND 105/106 switches deliver reliability and robust security. Depending on the network size, they can serve as a backbone or aggregation layer switch or router. With a wide temperature range and IP30 housing, these switches perform across varied settings.

GREYHOUND 105/106 features up to 6 × 10 GE ports, enabling termination of large numbers of high-speed connections.

GREYHOUND 115/116 enables MACsec technology to strengthen network security with Layer 2 encryption and authentication.

GREYHOUND 125/126 offers up to 24 PoE++ ports (60 W each) for power-intensive applications without requiring an external power supply.

Markets

Industrial organizations merging IT and OT worlds together, including discrete and process manufacturing and transportation, benefit from the GREYHOUND 105/106 family. They meet essential industry standards, including European Norm (EN) 50121-4 (rail trackside) for mass transit applications. These switches are also ideal for the automotive manufacturing, consumer packaged goods, intelligent traffic systems, material handling and water/wastewater sectors.

With its IT form factor and OT environmental robustness, the GREYHOUND 105/106 switches help to bridge the gap between office and industrial networks. Belden's proven HiOS software increases the performance of these switches and delivers regular free feature and security updates, ensuring highly performing and secure networks.



Technical Information

Type	GRS105-24TX / GRS105-6F8T GRS106-24TX / GRS106-6F8T	GRS105-16TX / GSR105-6F8F GRS106-16TX / GRS106-6F8F
Description	Managed Industrial Aggregation Layer Switch, 19" rack mount, up to 14 fiber ports and 30 ports in total.	
Port Type and Quantity	GRS105: 6 × 1/2.5 GE SFP + 24 x GE TX GRS106: 6 × 1/2.5/10 GE SFP + 8 × 1/2.5 GE TX + 16 x GE TX	GRS105: 6 × 1/2.5 GE SFP + 8 x GE SFP + 16 x GE TX GRS106: 6 × 1/2.5/10 GE SFP + 8 × 1/2.5 GE SFP + 16 x GE TX
Fanless Design	√	
Additional Interfaces		
USB-C	1 x USB-C (client) for local management	
SD-card slot	1 x SD card slot to connect the auto-configuration adapter ACA31	
Power Over Ethernet		
Port Type and Quantity	-	
Total PoE Budget	-	
Power Requirements		
Operating Voltage	Power supply 1: 24-48 V DC, 110-250 V DC or 110-240 V AC Power supply 2: not equipped, 24-48 V DC, 110-250 V DC or 110-240 V AC	
Power Consumption	Basic unit with one power supply max. 32 W	
Ambient Conditions		
Operating Temperature	-10°C to + 60°C	
Optional Conformal Coating	√	
Mechanical Construction		
Dimensions (W x H x D)	444 × 44 × 355 mm	
Weight	4,7 kg	
Protection Class	IP30	
Software		
Supported HiOS Software Levels	Layer 2 Standard (L2S), Layer 2 Advanced (L2A), Layer 3 Advanced with Unicast Routing (L3A-UR)	
MACsec (IEEE 802.1ae) support	-	
Approvals		
Basis Standard	CE, FCC, EN61131	
Safety of Industrial Control Equipment	EN62368, cUL62368	
Transportation	EN50121-4	
Accessories		
Accessories to order separately	Network Management Industrial HiVision, ACA31, SFP(+) transceivers, power cord, terminal block	

Technical Information

Type	GRS115-24TX / GRS115-6F8T GRS116-24TX / GRS116-6F8T	GRS115-16TX / GSR115-6F8F GRS116-16TX / GRS116-6F8F
Description	Managed Industrial Aggregation Layer Switch, 19” rack mount, up to 14 fiber ports and 30 ports in total, supporting MACsec in accordance to IEEE 802.1ae.	
Port Type and Quantity	GRS115: 4 x GE SFP (MACsec) + 2 × 1/2.5 GE SFP + 24 x GE TX GRS116: 4 × 1/10 GE SFP (MACsec) + 2 × 1/2.5/10 GE SFP + 8 × 1/2.5 GE TX + 16 x GE TX	GRS115: 4 x GE SFP (MACsec) + 2 × 1/2.5 GE SFP + 8 x GE SFP + 16 x GE TX GRS116: 4 × 1/10 GE SFP (MACsec) + 2 × 1/2.5/10 GE SFP + 8 × 1/2.5 GE SFP + 16 x GE TX
Fanless Design	√	
Additional Interfaces		
USB-C	1 x USB-C (client) for local management	
SD-card slot	1 x SD card slot to connect the auto-configuration adapter ACA31	
Power Over Ethernet		
Port Type and Quantity	-	
Total PoE Budget	-	
Power Requirements		
Operating Voltage	Power supply 1: 24-48 V DC, 110-250 V DC or 110-240 V AC Power supply 2: not equipped, 24-48 V DC, 110-250 V DC or 110-240 V AC	
Power Consumption	Basic unit with one power supply max. 32 W	
Ambient Conditions		
Operating Temperature	-10°C to + 60°C	
Optional Conformal Coating	√	
Mechanical Construction		
Dimensions (W x H x D)	444 × 44 × 355 mm	
Weight	4,7 kg	
Protection Class	IP30	
Software		
Supported HiOS Software Levels	Layer 2 Standard (L2S), Layer 2 Advanced (L2A), Layer 3 Advanced with Unicast Routing (L3A-UR)	
MACsec (IEEE 802.1ae) support	4 MACsec Ports (Uplink ports 1-4)	
Approvals		
Basis Standard	CE, FCC, EN61131	
Safety of Industrial Control Equipment	EN62368, cUL62368	
Transportation	EN50121-4	
Accessories		
Accessories to order separately	Network Management Industrial HiVision, ACA31, SFP(+) transceivers, power cord, terminal block	

Technical Information

Type	GRS125-24TX / GRS125-6F8T GRS126-24TX / GRS126-6F8T	GRS125-16TX / GRS125-6F8F GRS126-16TX / GRS126-6F8F
Description	Managed Industrial Aggregation Layer Switch, 19" rack mount, up to 14 fiber ports and 30 ports in total, supporting PoE++ (60 W) according to IEEE 802.3bt.	
Port Type and Quantity	GRS125: 6 × 1/2.5 GE SFP + 24 x GE TX (PoE) GRS126: 6 × 1/2.5/10 GE SFP + 8 × 1/2.5 GE TX (PoE) + 16 x GE TX (PoE)	GRS125: 6 × 1/2.5 GE SFP + 8 x GE SFP + 16 x GE TX (PoE) GRS126: 6 × 1/2.5/10 GE SFP + 8 × 1/2.5 GE SFP + 16 x GE TX (PoE)
Fanless Design	-	
Additional Interfaces		
USB-C	1 x USB-C (client) for local management	
SD-card slot	1 x SD card slot to connect the auto-configuration adapter ACA31	
Power Over Ethernet		
Port Type and Quantity	24 TX ports with PoE++ (60 W)	16 TX ports with PoE++ (60 W)
Total PoE Budget	600 W	
Power Requirements		
Operating Voltage	Power supply 1: 110-240 V AC Power supply 2: not equipped or 110-240 V AC for system redundancy	
Power Consumption	max. 660 W (included PoE power)	
Ambient Conditions		
Operating Temperature	-10°C to + 60°C	
Optional Conformal Coating	-	
Mechanical Construction		
Dimensions (W x H x D)	444 × 44 × 355 mm	
Weight	6.2 kg	
Protection Class	IP30	
Software		
Supported HiOS Software Levels	Layer 2 Standard (L2S), Layer 2 Advanced (L2A), Layer 3 Advanced with Unicast Routing (L3A-UR)	
MACsec (IEEE 802.1ae) support	-	
Approvals		
Basis Standard	CE, FCC, EN61131	
Safety of Industrial Control Equipment	EN62368, cUL62368	
Transportation	EN50121-4	
Accessories		
Accessories to order separately	Network Management Industrial HiVision, ACA31, SFP(+) transceivers, power cord, terminal block	

Selection of Popular Part Numbers and Product Configurations

Part Number	Type	Product Description
942 287-001	GRS105-24TX/6SFP-1HV-2A	6 × 1/2.5 Gbit/s SFP + 24 × Gbit/s TX, 110-240 V AC power supply, -10°C to +60°C, HiOS L2A
942 287-002	GRS105-24TX/6SFP-2HV-2A	6 × 1/2.5 Gbit/s SFP + 24 × Gbit/s TX, redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L2A
942 287-013	GRS105-24TX/6SFP-2HV-3AUR	6 × 1/2.5 Gbit/s SFP + 24 × Gbit/s TX, redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L3A-UR
942 287-004	GRS105-16TX/14SFP-1HV-2A	6 × 1/2.5 Gbit/s SFP + 8 × Gbit/s SFP + 16 × Gbit/s TX, 110-240 V AC power supply, -10°C to +60°C, HiOS L2A
942 287-005	GRS105-16TX/14SFP-2HV-2A	6 × 1/2.5 Gbit/s SFP + 8 × Gbit/s SFP + 16 × Gbit/s TX, redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L2A
942 287-014	GRS105-16TX/14SFP-2HV-3AUR	6 × 1/2.5 Gbit/s SFP + 8 × Gbit/s SFP + 16 × Gbit/s TX, redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L3A-UR
942 287-019	GRS115-24TX/6SFP-2HV-2A	2 × 1/2.5 Gbit/s SFP + 4 × Gbit/s SFP with MACsec + 24 × Gbit/s TX, redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L2A
942 287-021	GRS125-24TX/6SFP-2HV-2A	6 × 1/2.5 Gbit/s SFP + 24 × Gbit/s TX with PoE++, system redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L2A
942 287-007	GRS106-24TX/6SFP-1HV-2A	6 × 1/2.5/10 Gbit/s SFP + 8 × 1/2.5 Gbit/s TX + 16 × Gbit/s TX, 110-240 V AC power supply, -10°C to +60°C, HiOS L2A
942 287-008	GRS106-24TX/6SFP-2HV-2A	6 × 1/2.5/10 Gbit/s SFP + 8 × 1/2.5 Gbit/s TX + 16 × Gbit/s TX, redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L2A
942 287-015	GRS106-24TX/6SFP-2HV-3AUR	6 × 1/2.5/10 Gbit/s SFP + 8 × 1/2.5 Gbit/s TX + 16 × Gbit/s TX, redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L3A-UR
942 287-010	GRS106-16TX/14SFP-1HV-2A	6 × 1/2.5/10 Gbit/s SFP + 8 × 1/2.5 Gbit/s SFP + 16 × Gbit/s TX, 110-240 V AC power supply, -10°C to +60°C, HiOS L2A
942 287-011	GRS106-16TX/14SFP-2HV-2A	6 × 1/2.5/10 Gbit/s SFP + 8 × 1/2.5 Gbit/s SFP + 16 × Gbit/s TX, redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L2A
942 287-016	GRS106-16TX/14SFP-2HV-3AUR	6 × 1/2.5/10 Gbit/s SFP + 8 × 1/2.5 Gbit/s SFP + 16 × Gbit/s TX, redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L3A-UR
942 287-020	GRS116-24TX/6SFP-2HV-2A	2 × 1/2.5/10 Gbit/s SFP + 4 × 1/10 Gbit/s SFP with MACsec + 8 × 1/2.5 Gbit/s TX + 16 × Gbit/s TX, redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L2A
942 287-022	GRS126-24TX/6SFP-2HV-2A	6 × 1/2.5/10 Gbit/s SFP + 8 × 1/2.5 Gbit/s TX with PoE++ + 16 × Gbit/s TX with PoE++, system redundant 110-240 V AC power supplies, -10°C to +60°C, HiOS L2A

NOTE: These are the prominent technical specifications. For complete technical specifications visit: catalog.belden.com



Configurator

Characteristic	Attribute Value	Description
Product	GRS	GREYHOUND Switch
Series	1	GREYHOUND Series
Technology	0	Standard
	1	MACsec
	2	PoE++
Data Rate	6	6 × 1/2.5/10 Gbit/s + 8 × 1/2.5 Gbit/s + 16 x Gbit/s
	5	6 × 1/2.5 Gbit/s + 8 x Gbit/s +16 x Gbit/s
Port Group 1	6F	6 x SFP slots
Port Group 2	8F	8 x SFP slots
	8T	8 x TX ports
Port Group 3	16T	16 x TX ports
Operating Temperature Range	S	-10°C to +60°C
	C	-10°C to +60°C, Conformal Coating
Power Supply Unit 1	L	24 to 48 V DC
	M	110 to 250 V DC
	G	110 to 240 V AC
Power Supply Unit 2	L	24 to 48 V DC
	M	110 to 250 V DC
	G	110 to 240 V AC
	9	no second power supply
Approvals	Z9	CE, FCC, EN61131, EN62368
	Y9	“Z9” + cUL62368
	T9	“Z9” + EN50121-4
	TY	“T9” + cUL62368
Customization	HH	Hirschmann Standard
Hardware Configuration	S	Standard
Software Configuration	E	Standard (Empty)
	B	Diagnostic User (BDEW)
Software Level	2S	HiOS Layer 2 Standard
	2A	HiOS Layer 2 Advanced
	3A	HiOS Layer 3 Advanced
Software Packages	99	Reserved
	UR	IPv4 Unicast Routing Package
Software Version	XX.X.	Newest Software Version
Maintenance Version	XX	Newest Maintenance Version



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