

GREYHOUND 19" Ruggedized Rack-Mount Switches and Media Modules





The GREYHOUND Gigabit Ethernet switches are offered in two basic versions. The configuration options include:

- 16 Fast Ethernet TX ports
- Eight Fast Ethernet TX ports, plus eight Fast Ethernet small form-factor pluggable (SFP) ports
- It is also possible to add four Gigabit Ethernet Combo ports

The basic units offer a media module slot that allows customers to add or change ports in the field, as their network design requirements change in the future. The modules can be ordered in versions from all-copper to all-fiber, depending on the individual need.



Technical Information

Product Description Basic Units		
Type	GRS1020/1120-xx	GRS1030/1130-xx
		
Description	Modular Managed Industrial Switch, fanless design	
Port Type and Quantity	Ports in total up to 24 Basic unit: 16 FE TX ports, or 8 FE TX ports/8 FE SFP slots expandable with one slot for media modules with 8 FE ports	Ports in total up to 28 Basic unit: 4 x FE/GE Combo ports plus 16 FE TX ports, or 8 FE TX ports/8 FE SFP slots expandable with one slot for media modules with 8 FE ports
Number of Fiber Ports	20 fiber ports: 4 GE/FE plus 8 FE basic unit plus 8 FE with media module	
Additional Interfaces		
V.24 Interface	1 x RJ45 socket	
USB and SD Interface	1 x to connect auto-configuration adapter ACA22 (USB)	
Power Requirements		
Operating Voltage	24 to 48 V DC redundant, or 110 to 250 V DC and 110 to 240 V AC optional redundant	
Power Consumption	7.5 to 18 W depending on the variant	
Mechanical Construction		
Weight	3.55 to 3.8 kg depending on the variant	
Protection Class	IP30	
Dimensions (WxHxD)	448 x 44 x 315 mm	
Software		
Supported HiOS Software Levels	Layer 2 Standard (L2S)	

NOTE: These are the prominent technical specifications. For complete technical specifications visit: www.belden.com/hirschmann



Technical Information

Product Description Media Modules for GREYHOUND	
Type	GRM20-xx
Port Type and Quantity	up to 8 FE ports, more details in the configurator for ST, SC, RJ45, SFP slots
Power Consumption	2 to 9 W depending on the variant
Weight	450 to 650 g depending on the variant

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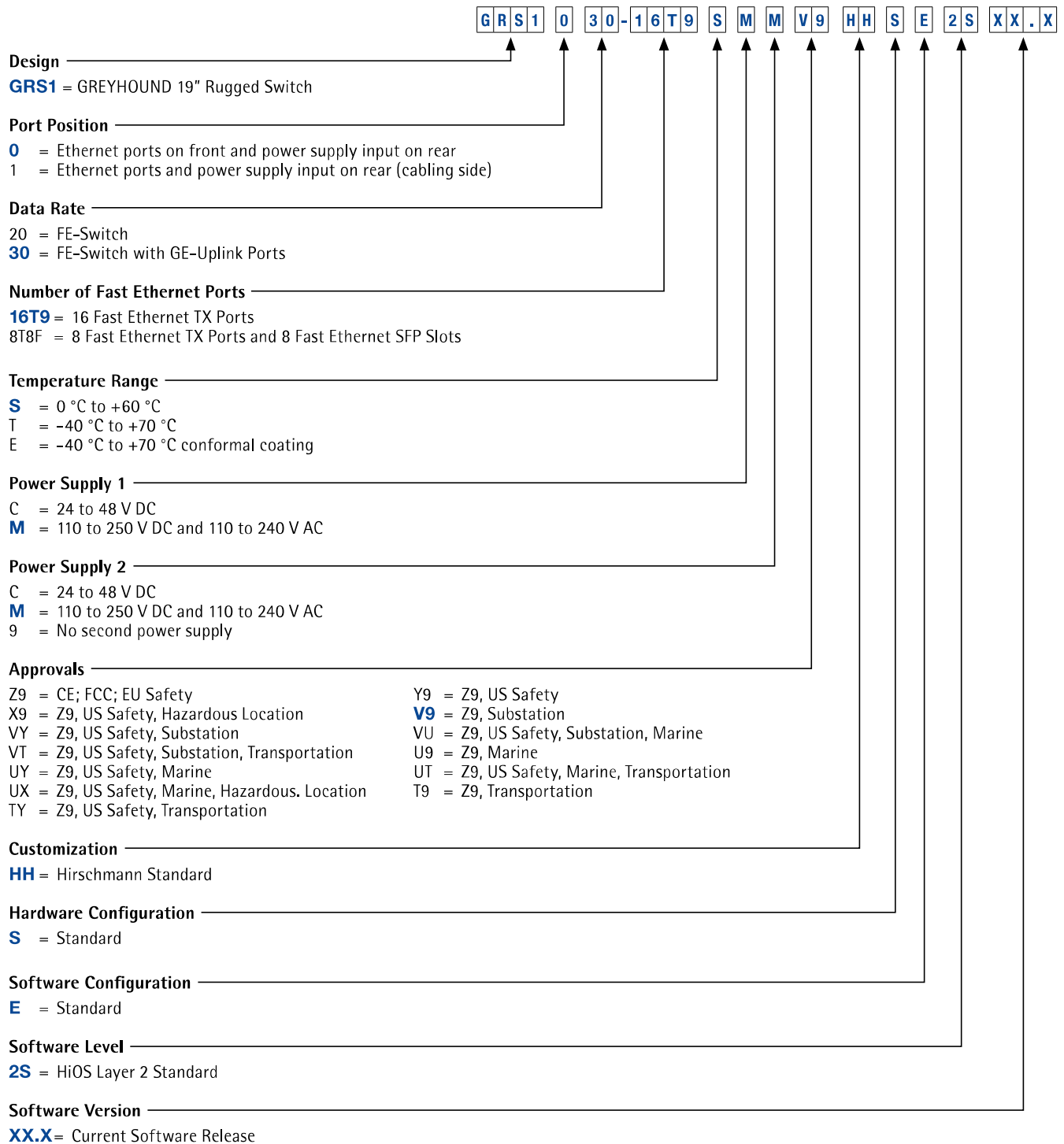


Common Technical Data Basic Units and Media Modules

Gigabit ETHERNET Network Size	
Twisted Pair (TP)	0 to 100 m
Multimode Fiber (MM) 50/125 μm	0 to 550 m, 7.5 dB link budget; 62.5/125 μm 0 to 275 m, 7.5 dB link budget (with M-SFP-SX/LC)
Singlemode Fiber (SM) 9/125 μm	0 to 20 km, 11 dB link budget (with M-SFP-LX/LC); 14 to 42 km, 5 to 20 dB link budget (with M-SFP-LX+/LC)
Singlemode Fiber (LH) 9/125 μm	23 to 80 km, 5 to 22 dB link budget (with M-SFP-LH/LC); 71 to 128 km, 15 to 30 dB link budget (with M-SFP-LH+/LC)
Fast ETHERNET Network Size	
Twisted Pair (TP)	0 to 100 m
Multimode Fiber (MM) 50/125 μm	0 to 5000 m, 8 dB link budget; 62.5/125 μm , 0 to 4000 m, 11 dB link budget (with M-Fast SFP-MM/LC)
Singlemode Fiber (SM) 9/125 μm	0 to 25 km, 13 dB link budget (with M-Fast SFP-SM/LC); 25 to 65 km, 10 to 29 dB link budget (with M-Fast SFP-SM+/LC)
Singlemode Fiber (LH) 9/125 μm	47 to 104 km, 10 to 29 dB link budget (with M-Fast SFP-LH/LC)
Network Size – Cascadability	
Line-/Star Topology	Any
Ring Structure	>200 switches MRP
Ambient Conditions	
Operating Temperature	0 °C to +60 °C, or -40 °C to +70 °C, IEC 60068-2-2 Dry Heat Test +85 °C 16 hours, optional conformal coating
Relative Humidity (non-condensing)	5% to 95%
Approvals Configurable	
Safety of Industrial Control Equipment	EN 60950-1, EN 61131-2, cUL60950-1
Substation	IEC 61850-3, IEEE 1613
Ship	GL – Germanischer Lloyd (pending)
Hazardous Locations	ISA-12,12.-01 Class 1 Div. 2 Group A, B, C, D (pending)
Transportation	NEMA TS2, EN 50121-4
Accessories	
Device Replacement and Logging	ACA22-USB EEC 942 124-001

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GREYHOUND GRS1020/GRS1120/GRS1030/GRS1130 Switch Configurations





GREYHOUND GRM20 Media Modules Configurations

