

GREYHOUND2000 (GRS2000) Standard

Next-generation 19-inch industrial switch

Product Bulletin



The industrial-grade GREYHOUND2000 addresses today's most demanding applications with very high fiber port density, 10 GE uplinks, and configurable port groups for diverse scenarios.

- **Advanced configurability and flexibility** with the highest port count of any rugged Belden industrial Ethernet switch and flexible PSU options.
- **High uptime and network stability** with support for Precision Time Protocol (PTPv2), High-Availability Seamless Redundancy (HSR) protocol, and hardware prepared for Parallel Redundancy Protocol (PRP).
- **Ruggedized for harsh conditions** with a temperature range of -40°C to 70°C (up to +85°C for 16h dry heat) per IEC 60068-2-2 EMC standards.



Key features

- Up to 34 ports per device with four port groups of eight-port FE/GE
- RJ45, SFP, or DST/DSC fiber port options, plus two 1/2.5/10 GE SFP uplink ports
- GRS2x30 can optionally have up to 10 × 1GE ports as of FW10.3.06
- Redundant power supplies: Low Voltage (24-48 V DC) or High Voltage (60-250 V DC / 100-240 V AC)
- Advanced Layer 2 and Layer 3 features through the Hirschmann Operating System (HiOS)
- PTPv2 synchronization and HSR for zero-switchover-time network resilience
- Certified IEC62443-4-2 SL2 and EU CRA compliant

GREYHOUND2000's high port density and 10 GE uplink capability make it ideal for the evolving Energy industry to meet the growing demand for electric power, optimizing complex network designs, and meeting mission-critical demands.



Your benefits

As digital transformation accelerates, demand for Ethernet-based fiber communication is at an all-time high. GREYHOUND2000 sets new standards for ruggedized 19-inch switches. With 10 GE uplinks, organizations can consolidate SCADA, CCTV, and process telemetry onto a single infrastructure, reducing hardware footprint while expanding throughput. Very high port count and connectivity options make GREYHOUND2000 flexible enough to map to varied network designs while enabling a smooth shift from legacy equipment.

Applications

Network uptime and reliability are top priorities in mission-critical environments. GREYHOUND2000 addresses these needs with HSR for zero-switchover-time resilience and enhanced HiOS security features. Very high fiber port density is essential for substation, where copper is not popular due to EMI. A successor to the MACH1000 family, GREYHOUND2000 is the next generation of industrial switching. Belden's solution consulting and services team offers market leading services for initial configuration, translating the old configuration and periodic network assessments.

Markets

By addressing the overwhelming demands of power transmission and distribution, along with IEC 62443-4-1 and IEC 62443-4-2 certifications, GREYHOUND2000 surpasses the essential ruggedization and cybersecurity requirements of many sectors. Ideal for mass transit and rail, process industries, and energy.



GREYHOUND GRS2000 Standard Switch

Selection of popular part numbers and product configurations

Part number	Type	Product description
942336001	GRS2030-12TX/6SFP-1HV-2A	12 TX + 4 SFP Fast Ethernet + 2 SFP Gigabit Uplink L2A + 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336002	GRS2030-4TX/14SFP-1HV-2A	4 TX + 12 SFP Fast Ethernet + 2 SFP Gigabit Uplink L2A + 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336003	GRS2030-24TX/2SFP-1HV-2A	24 TX + 2 SFP Fast Ethernet + 2 SFP Gigabit Uplink L2A + 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336004	GRS2030-26SFP-1HV-2A	24 SFP Fast Ethernet + 2 SFP Gigabit Uplink L2A + 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336005	GRS2030-12TX/14SFP-1HV-2A	12 TX + 12 SFP Fast Ethernet + 2 SFP Gigabit Uplink L2A + 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336006	GRS2030-32TX/2SFP-1HV-2A	32 TX Fast Ethernet + 2 SFP Gigabit Uplink L2A + 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336007	GRS2030-34SFP-1HV-2A	32 SFP Fast Ethernet + 2 SFP Gigabit Uplink L2A + 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336008	GRS2030-16TX/18SFP-1HV-2A	16 TX + 16 SFP Fast Ethernet + 2 SFP Gigabit Uplink L2A + 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336025	GRS2040-12TX/4SFP-2HV-2A	12 TX + 4 SFP Full Gigabit L2A + redundant 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336026	GRS2040-4TX/12SFP-2HV-2A	4 TX + 12 SFP Full Gigabit L2A + redundant 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336027	GRS2040-24TX/2SFP-2HV-2A	24 TX + 2 SFP Full Gigabit L2A + redundant 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336028	GRS2040-26SFP-2HV-2A	24 SFP + 2 SFP Full Gigabit L2A + redundant 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336029	GRS2040-12TX/14SFP-2HV-2A	12 TX + 14 SFP Full Gigabit L2A + redundant 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336030	GRS2040-32TX/2SFP-2HV-2A	32 TX + 2 SFP Full Gigabit L2A + redundant 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336031	GRS2040-34SFP-2HV-2A	34 SFP Full Gigabit L2A + redundant 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals
942336032	GRS2040-16TX/18SFP-2HV-2A	16 TX + 18 SFP Full Gigabit L2A + redundant 100-240 VAC or 60-250 VDC power supply + -40°C to +70°C + Substation + UL approvals

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



GREYHOUND GRS2000 Standard Switch



Type	GRS2000	GRS2100
Description	GREYHOUND20000 industrial managed Gigabit Ethernet Switch with up to 10 Gigabit uplinks, 19" Rack mounting, according to IEEE 802.3, Store-and-Forward-Switching	
Port Type and Quantity	Ports in total up to 34: ports on front (GRS2000) or ports on rear (GRS2100)	
	up to 4 modules selectable with port options: 8 × 10/100/1000 Mbits TX RJ45 8 x FE/GE SFP 6 x FE DSC/DST 4 × 10/100/1000 Mbits TX RJ45 + 4 x FE/GE SFP up to 2 uplink ports 1/2.5/10 GE SFP(+)	
	Additional Interfaces:	
Micro SD card slot	1 x Micro SD card slot to connect the auto-configuration adapter ACA41	
Power Requirements:		
Operating Voltage	Power supply 1: 24-48 VDC, 60-250 VDC or 100-240 VAC Power supply 2: not equipped, 24-48 VDC, 60-250 VDC or 100-240 VAC	
Power Consumption	Basic unit with power supply 45W	
Ambient Conditions:		
Operating Temperature	‘0°C to +60°C -40°C to +70°C includes 16 h @ 85 °C dry heat	
Conformal Coating	Optional	
Mechanical Construction:		
Dimensions (W x H x D)	448 × 44 × 344 mm	
Weight	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), Layer 3 Advanced with Multicast Routing (L3A-MR)*	
Approvals		
Basis Standard	CE, FCC, UKCA, RCM	
Safety of Industrial Control Equipment	EN62368-1, cUL62368-1	
Substation	IEC 61850-3, IEEE1613	
Marine	GL/DNV (Germanischer Lloyd/Det Norske Veritas)*	
Hazardous Locations	UL-121201 Class 1 Div. 2, ATEX Zone 2*	
Transportation	NEMA TS2, EN 50121-4	
Security	IEC 62443-4-2 SL2 (https://www.doc.hirschmann.com/certs/968_CSP_1042_00_25_en_el.pdf)	
Accessories		
Accessories to order separately	Network Management Industrial HiVision, ACA41, SFP(+) transceivers	

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* coming soon



GREYHOUND GRS2000 Standard Switch Configurator



Characteristic	Attribute value	Description
Product	GRS	GRS - GREYHOUND Switch Standard
Series	2	2 - GREYHOUND2000 Series
Technology	0	0 - Front: Management, Ethernet; Rear: Power supply
	1	1 - Front: Management; Rear: Ethernet, power supply
Data rate	6	PG 1 - 4: FE/GE, PG 5: 1/10GE
	5	PG 1 - 4: FE/GE, PG 5: 1/2.5GE
	4	PG 1 - 4: FE/GE, PG 5: GE
	3	PG 1 - 4: FE, PG 5: GE
	2	PG 1 - 4: FE
Port Types: PG 1 & 3 (top)	A	PG1: 4 x TX + 4 x SFP, PG3: N/A
	B	PG1: 4 x TX + 4 x SFP, PG3: 8 x TX
	C	PG1: 4 x TX + 4 x SFP, PG3: 8 x SFP
	D	PG1: 4 x TX + 4 x SFP, PG3: 6 x DSx
	E	PG1: 8 x SFP, PG3: N/A
	F	PG1: 8 x SFP, PG3: 8 x TX
	G	PG1: 8 x SFP, PG3: 8 x SFP
	H	PG1: 8 x SFP, PG3: 6 x DSx
	I	PG1: 6 x DSx, PG3: N/A
	J	PG1: 6 x DSx, PG3: 8 x TX
	K	PG1: 6 x DSx, PG3: 6 x DSx
	L	PG1: 8 x TX, PG3: N/A
Fiber Ports & SFPs: PG 1	M	PG1: 8 x TX, PG3: 8 x TX
	0	N/A
	A	DSC: 100 Mbit MM
	B	DST: 100 Mbit MM
	C	DSC: 100 Mbit SM
	D	DST: 100 Mbit SM
	F	SFP: 100 Mbit MM/LC EEC
	H	SFP: 100 Mbit SM/LC EEC
Number of Transceiver: PG 1	J	SFP: 1 Gbit SX/LC EEC
	L	SFP: 1 Gbit LX/LC EEC
	0	N/A
	2	2 x Pre-assembled Transceivers
	4	4 x Pre-assembled Transceivers
Fiber Ports & SFPs: PG 3	6	6 x Pre-assembled Transceivers
	8	8 x Pre-assembled Transceivers
	0	N/A
	A	DSC: 100 Mbit MM
	B	DST: 100 Mbit MM
	C	DSC: 100 Mbit SM
	D	DST: 100 Mbit SM
	F	SFP: 100 Mbit MM/LC EEC
Fiber Ports & SFPs: PG 3	H	SFP: 100 Mbit SM/LC EEC
	J	SFP: 1 Gbit SX/LC EEC
	L	SFP: 1 Gbit LX/LC EEC

Characteristic	Attribute value	Description
Number of Transceiver: PG 3	0	N/A
	2	2 x Pre-assembled Transceivers
	4	4 x Pre-assembled Transceivers
	6	6 x Pre-assembled Transceivers
	8	8 x Pre-assembled Transceivers
Port Types: PG 2 & 4 (bottom)	0	PG2: N/A, PG4: N/A
	A	PG2: 4 x TX + 4 x SFP, PG4: N/A
	B	PG2: 4 x TX + 4 x SFP, PG4: 8 x TX
	C	PG2: 4 x TX + 4 x SFP, PG4: 8 x SFP
	D	PG2: 4 x TX + 4 x SFP, PG4: 6 x DSx
	E	PG2: 8 x SFP, PG4: N/A
	F	PG2: 8 x SFP, PG4: 8 x TX
	G	PG2: 8 x SFP, PG4: 8 x SFP
	H	PG2: 8 x SFP, PG4: 6 x DSx
	I	PG2: 6 x DSx, PG4: N/A
	J	PG2: 6 x DSx, PG4: 8 x TX
	K	PG2: 6 x DSx, PG4: 6 x DSx
	L	PG2: 8 x TX, PG4: N/A
	M	PG2: 8 x TX, PG4: 8 x TX
Fiber Ports & SFPs: PG 2	0	N/A
	A	DSC: 100 Mbit MM
	B	DST: 100 Mbit MM
	C	DSC: 100 Mbit SM
	D	DST: 100 Mbit SM
	F	SFP: 100 Mbit MM/LC EEC
	H	SFP: 100 Mbit SM/LC EEC
	J	SFP: 1 Gbit SX/LC EEC
Number of Transceiver: PG 2	L	SFP: 1 Gbit LX/LC EEC
	0	N/A
	2	2 x Pre-assembled Transceivers
	4	4 x Pre-assembled Transceivers
	6	6 x Pre-assembled Transceivers
	8	8 x Pre-assembled Transceivers
Fiber Ports & SFPs: PG 4	0	N/A
	A	DSC: 100 Mbit MM
	B	DST: 100 Mbit MM
	C	DSC: 100 Mbit SM
	D	DST: 100 Mbit SM
	F	SFP: 100 Mbit MM/LC EEC
	H	SFP: 100 Mbit SM/LC EEC
	J	SFP: 1 Gbit SX/LC EEC
Fiber Ports & SFPs: PG 4	L	SFP: 1 Gbit LX/LC EEC

GREYHOUND GRS2000 Standard Switch Configurator



Characteristic	Attribute value	Description	Characteristic	Attribute value	Description
Number of Transceiver: PG 4	0	N/A	Approvals / Declarations	Z9	CE; FCC; EN61131; EN62368-1
	2	2 x Pre-assembled Transceivers		Y9	"Z9" + UL62368-1
	4	4 x Pre-assembled Transceivers		X9*	"Z9" + cUL62368-1 + cUL121201
	6	6 x Pre-assembled Transceivers		W9*	"Z9" + ATEX/IECEX
	8	8 x Pre-assembled Transceivers		V9	"Z9" + IEC 61850-3, IEEE1613
Port Types: PG 5 (right)	0	N/A		VY	"V9" + UL62368-1
	A	PG5: 2 x SFP		VU*	"V9" + UL62368-1 + GL, (DNV)
SFPs: PG 5	0	N/A		VT	"V9" + UL62368-1 + EN50121-4
	J	SFP: 1 Gbit SX/LC EEC		U9*	"Z9" + GL, (DNV)
	L	SFP: 1 Gbit LX/LC EEC		UY*	"U9" + UL62368-1
	M	SFP: 2.5 Gbit MM/LC EEC		UX*	"U9" + cUL62368-1 + cUL121201
	N	SFP: 2.5 Gbit SM/LC EEC		UW*	"U9" + ATEX/IECEX
	P	SFP: 2.5 Gbit SM-/LC EEC		UT*	"U9" + UL62368-1 + EN50121-4
Number of Transceiver: PG 5	0	N/A		T9	"Z9" + EN50121-4
	2	2 x Pre-assembled Transceivers		TY	"T9" + UL62368-1
Operating Temperature Range	S	Standard 0 to +60 °C	Customization	HH	Standard
	C	Standard 0 to +60 °C with CC		HG	GE capability on PG1
	T	Extended -40 °C to +70 °C	Software Configuration	E	Empty
	E	Extended -40 °C to +70 °C with CC		B	Diagnostic User (BDEW)
Voltage Range PSU 1	K	60 to 250 VDC and 100 to 240 VAC	Software Level	2S	HiOS Layer 2 Standard
	F	24 to 48 VDC		2A	HiOS Layer 2 Advanced
Voltage Range PSU 2	9	N/A		3A	HiOS Layer 3 Advanced
	K	60 to 250 VDC and 100 to 240 VAC	Software Packages	99	Reserved
	F	24 to 48 VDC		UR	IPv4 Unicast Routing Package
				MR*	IPv4 Multicast Routing Package

* coming soon

Potential GRS2000 Configuration Options

	Front	Rear	Front	Rear
Type	GRS2000 with front facing ports 28 GE TX + 4 GE SFP + 2 10GE SFP Uplinks		GRS2000 with rear facing ports 32 GE SFP + 2 10GE Uplinks	
Product Code	GRS2060-B0000-M0000-A00-TKKVYHHE2A99		GRS2160-G0000-G0000-A00-TKKVYHHE2A99	
	Front	Rear	Front	Rear
Type	GRS2000 with front facing ports 4 GE TX + 4 GE SFP +16 FE TX + 2 GE SFP Uplinks		GRS2000 with rear facing ports 16 GE SFP + 12MM DST ports + 2 10GE Uplinks	
Product Code	GRS2030-C0000-M0000-A00-TKKV9HGE2A99		GRS2160-G0000-KB6A6-A00-TKKEEHHE2A99	



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