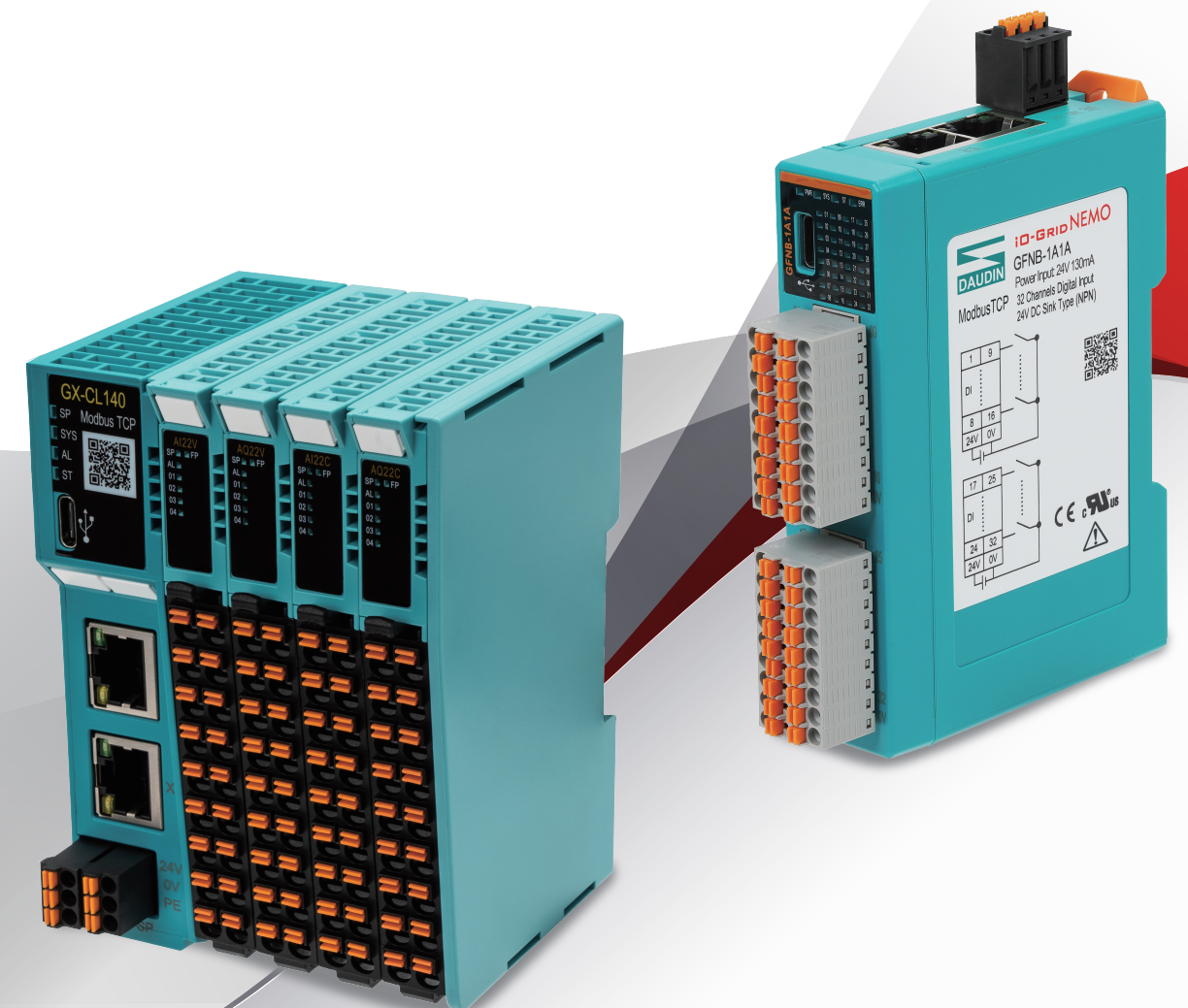


iO-GRID X iO-GRID NEMO

Industry Driver for Smart Manufacturing and Digital Transformation

 EtherCAT  EtherNet/IP  Modbus  CC-Link IE Basic  CC-Link


Delight Through Connections



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The Company reserves the right to modify and change the design of products.

DAUDIN is committed to the fields of industrial automation and smart factory digitization. Through many years of experience in industrial automation and the integration of smart factory digitalization, DAUDIN has developed the **iO-GRID** fieldbus product with strong functions and competitive fieldbus products **iO-GRID** series remote I/O, to provide the best solution for the digital transformation of factories with the digital machine communication system of DAUDIN.

The fieldbus communication products include common industrial communication protocols such as , Ether**CAT**, , **EtherNet/IP**, **CC-Link**, and **CC-Link IE Field Basic**. The digital, analog and temperature remote I/O module series can connect to the PLCs and industrial controllers of global brands via simple settings.

Among the digital transformation solutions for smart factories, the digital machine communication system of DAUDIN mainly pairs with **iO-GRID Q** edge computing and **iO-GRID V** smart electronic dashboard software. By integrating the **iO-GRID** product, equipment information of the factory can be collected for data organization and analysis. It also can rapidly constitute an independently-operating digital management system without the need to additionally install expensive ERP or MES modules.

For the objectives and core values of DAUDIN Intelligence and the demands for automation, digitization and intelligence in the industrial market, we will continue to develop key technologies and product innovations in the future. Provides comprehensive solutions for the customer to complete the objectives of automation, digitization and intelligence step by step, and become an industry leader in smart manufacturing and digital transformation.

Core Values

01



Developing new products for industrial automation

02



Providing the optimal solution in the industry

03



Listening to the opinion of the customer to meet the market needs

04



Continuing to upgrade product functions and services

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P11~P16	iO-GRID X	Digital Module Digital Input/Output, 16/32 ch, Sink/Source
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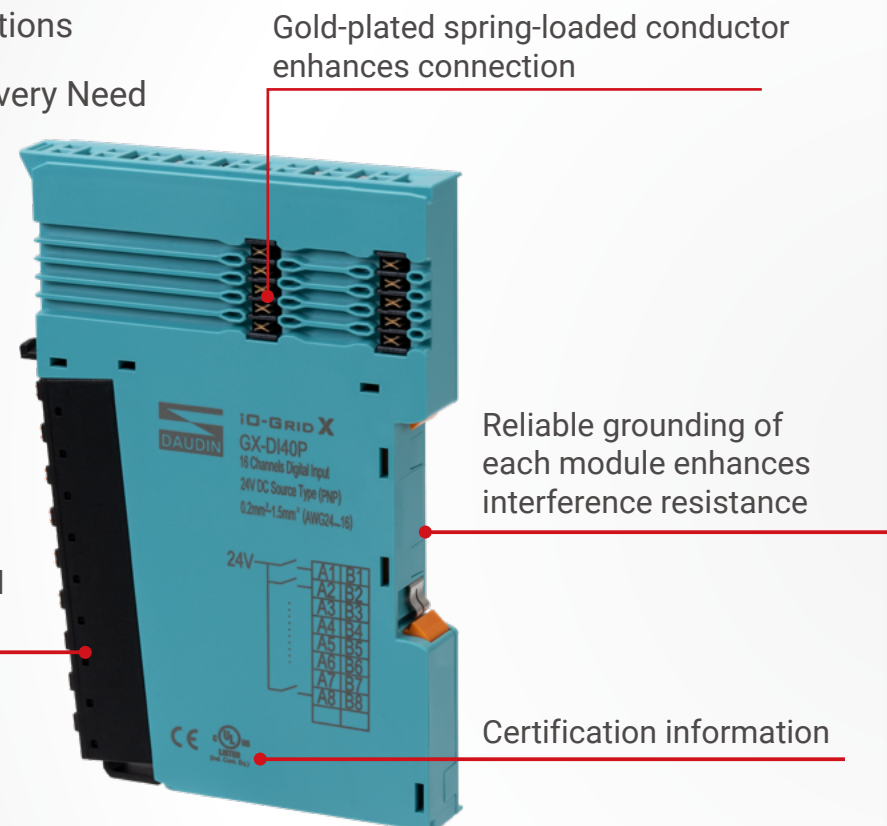
iO-GRID X

Compatible with Multiple Industrial Communication Protocols

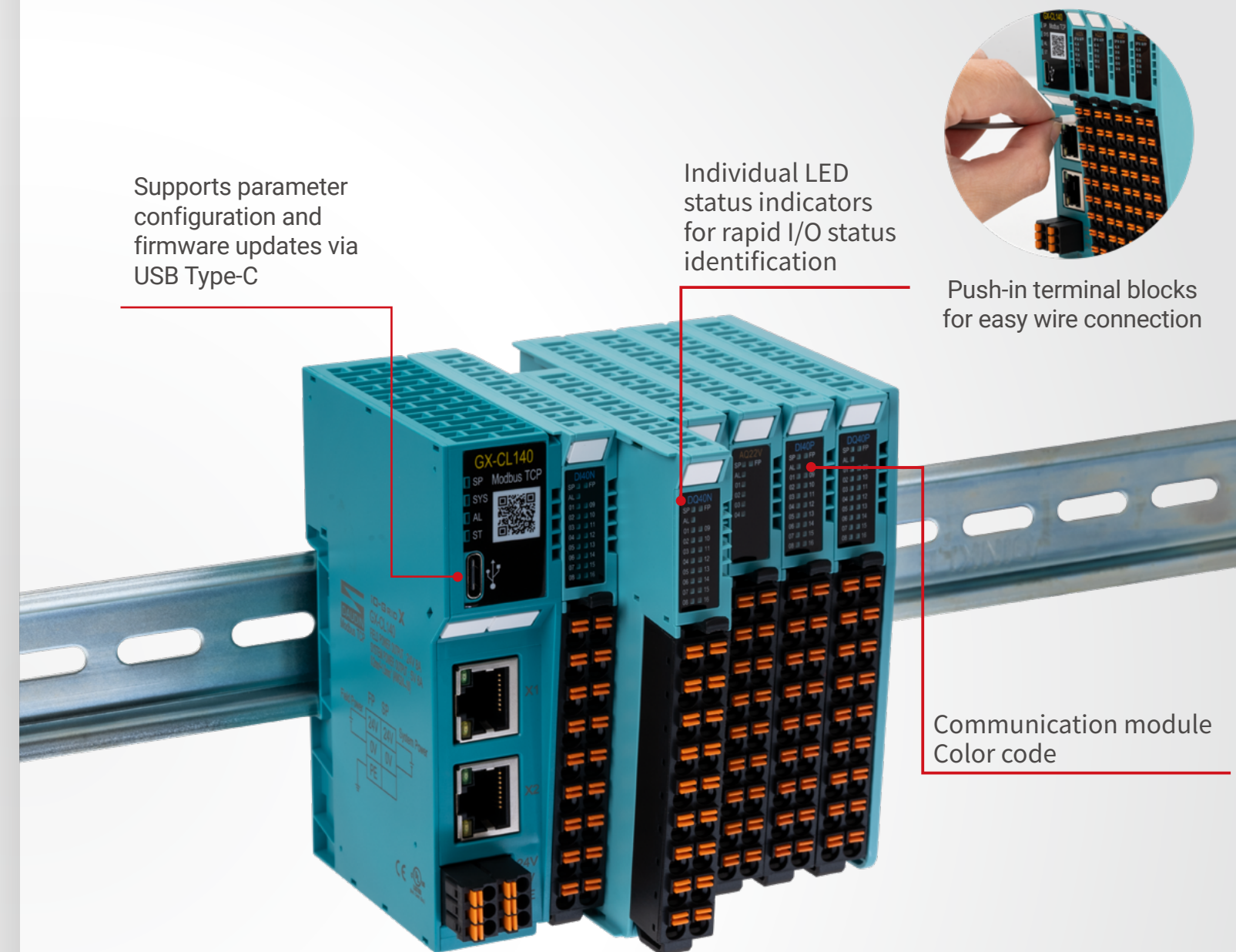
Easy maintenance. Vertical slide connection.

Disassembly and assembly without module relocation.

- ▶ Ambient temperature : -10~60°C
- ▶ Safe, Reliable, Steady Connections
- ▶ Versatile Configurations for Every Need
- ▶ Diverse Fieldbus Options
- ▶ Error Message Diagnosis
- ▶ High speed Response



Compact, Lightweight, and Highly Effective



Application field

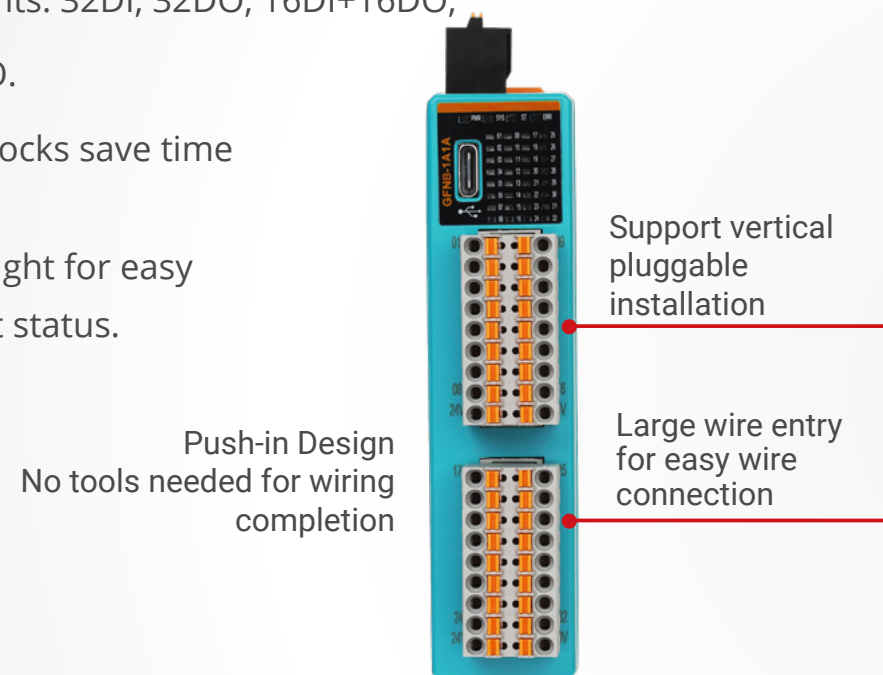
- General machinery
- Wood processing
- Plastic machinery
- Packaging machinery
- Steel plate processing
- Door and window processing machinery
- CNC machine
- Tire and rubber industry
- Printing and paper machinery
- Wire, cable and pipeline industry
- Textile industry
- Precision instrument
- Transportation and Logistics
- Carrying and assembly technology

- Building automation
- Smart City
- Wind power
- Solar energy
- Energy industry
- CPU
- Biotechnology
- Food Industry
- Automobile industry
- Semiconductor manufacturing
- Biomedical engineering
- Intelligent agriculture

iO-GRID NEMO

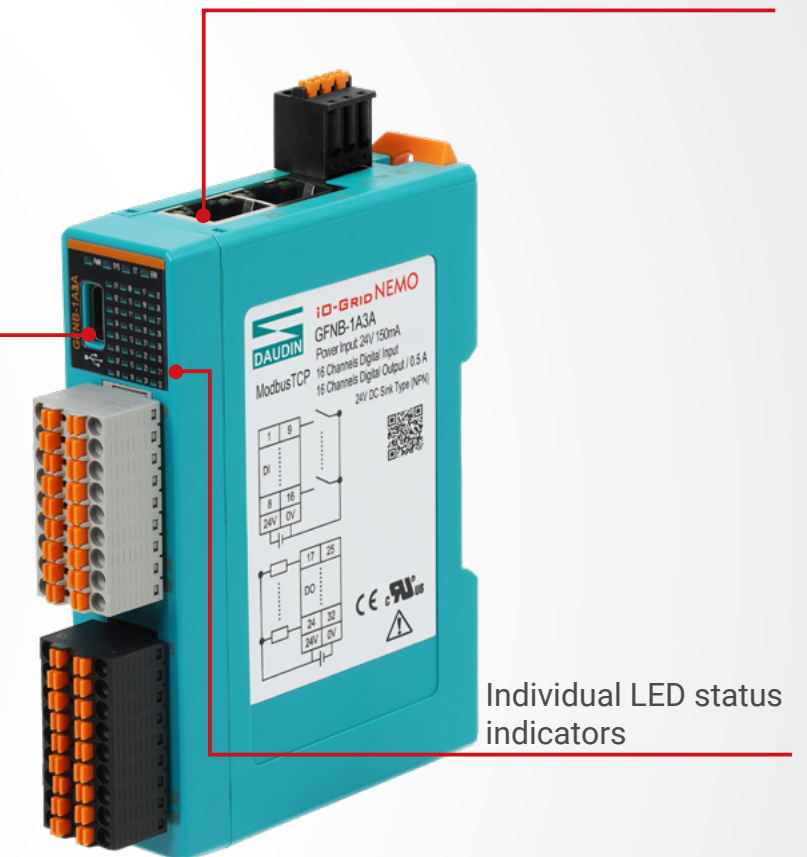
Effortlessly Address Various Demands with Versatile

- ▶ Independent distributed site configuration
- ▶ Supports major protocols PROFINET, EtherCAT, EtherNet/IP, Modbus TCP, CC-Link, CC-Link IE Field Basic.
- ▶ Optional product points: 32DI, 32DO, 16DI+16DO, 24DI+8DO, 8DI+24DO.
- ▶ Pluggable terminal blocks save time and labor costs.
- ▶ Integrated indicator light for easy identification of point status.



Supports parameter configuration and firmware updates via USB Type-C

Providing 2 sets of RJ45 interfaces for convenient station expansion



Application field

- General machinery
- Wood processing
- Plastic machinery
- Packaging machinery
- Steel plate processing
- Door and window processing machinery
- CNC machine
- Tire and rubber industry
- Printing and paper machinery
- Wire, cable and pipeline industry
- Textile industry
- Precision instrument
- Transportation and Logistics
- Carrying and assembly technology

- Building automation
- Smart City
- Wind power
- Solar energy
- Energy industry
- CPU
- Biotechnology
- Food Industry
- Automobile industry
- Semiconductor manufacturing
- Biomedical engineering
- Intelligent agriculture

iO-GRID X

P08		PROFINET EtherCAT	GX-CL110 GX-CL120
P09	Fieldbus Coupler Module	EtherNet/IP Modbus TCP	GX-CL130 GX-CL140
P10		CC-Link IE Field Basic	GX-CL150
P11	Digital Input Module (Terminal Block)	16 ch , Sink/Source	GX-DI40N GX-DI40P
P12	Digital Input Module (Terminal Block)	32 ch, Sink/Source	GX-DI50N GX-DI50P
P13	Digital Output Module (IDC Connector)	32 ch, Sink/Source	GX-DI51N GX-DI51P
P14	Digital Output Module (Terminal Block)	16 ch, Sink/Source	GX-DQ40N GX-DQ40P
P15	Digital Output Module (Terminal Block)	32 ch, Sink/Source	GX-DQ50N GX-DQ50P
P16	Digital Output Module (IDC Connector)	32 ch, Sink/Source	GX-DQ51N GX-DQ51P
P17	Analog Input Module	Voltage type, 4/8 ch, 12bit	GX-AI21V GX-AI31V
P18	Analog Input Module	Voltage type, 4/8 ch, 16bit	GX-AI22V GX-AI32V
P19	Analog Input Module	Current type, 4/8 ch, 12bit	GX-AI21C GX-AI31C
P20	Analog Input Module	Current type, 4/8 ch, 16bit	GX-AI22C GX-AI32C
P21	Analog Output Module	Voltage type, 4/8 ch, 12bit	GX-AQ21V GX-AQ31V
P22	Analog Output Module	Voltage type, 4/8 ch, 16bit	GX-AQ22V GX-AQ32V
P23	Analog Output Module	Current type, 4/8 ch, 12bit	GX-AQ21C GX-AQ31C
P24	Analog Output Module	Current type, 4/8 ch, 16bit	GX-AQ22C GX-AQ32C
P25	Temperature Module	RTD Thermocouple	GX-RT200 GX-TC200
P26	Serial Communication Module	RS-485 / RS-232	GX-CM111
	High Speed Counter Module	500K Hz	GX-HC100
P27	Pulse Output Module	200K Hz	GX-PL100
P28	Power Module	24VDC input	GX-PS110 GX-PS111

Fieldbus Coupler Module



Product Model	GX-CL110	GX-CL120
Communication Specifications		
Communication Protocol	PROFINET	EtherCAT
Connection Method	RJ-45	
Number of Interfaces	2	
Transmission speed	10/100 Mbps	100 Mbps
Technical Specifications		
Max. Expansion Module	64 slots	
Max. Input Data Length	1024 bytes	1024 bytes
Max. Output Data Length	1024 bytes	1024 bytes
Supply Voltage (System)	24 VDC (-15%~+20%)	
Current Consumption (System)	Max. 80 mA	Max. 80 mA
Indicator Description	Power Status : Green	
	System Status : Green/Red	
	Alarm Status : Green/Red	
	Communication Status : Green/Red	
Isolation Method	transformer isolation	
Isolation	500 VDC	
Protective Circuit	Overvoltage Protection / Undervoltage Protection / Overcurrent Protection	
Connection Method	Push-in connection	
General Specifications		
Dimensions (W*D*H)	25 x 105 x 69mm	
Weight	80 g	78 g
Mounting Type	DIN rail mounting	
Operation Temperature	-10 ... 60 °C	
Storage Temperature	-25 ... 85 °C	
Relative humidity (without condensation)	RH 95%	
Altitude Limit	< 2000 m	
Degree of Protection	IP 20	
Pollution Degree	II	
Product Certification	CE, UL	
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)	
Stripping Length	9 mm	
Terminals	DN00510D / DN00710D	
Marketing Label	TM45W*2	

Fieldbus Coupler Module



Product Model	GX-CL130	GX-CL140
Communication Specifications		
Communication Protocol	EtherNet/IP	Modbus TCP
Connection Method	RJ-45	
Number of Interfaces	2	
Transmission speed	10/100 Mbps	10/100 Mbps
Technical Specifications		
Max. Expansion Module	64 slots	
Max. Input Data Length	496 bytes	1024 bytes
Max. Output Data Length	496 bytes	1024 bytes
Supply Voltage (System)	24 VDC (-15%~+20%)	
Current Consumption (System)	Max. 80 mA	Max. 80 mA
Indicator Description	Power Status : Green	
	System Status : Green/Red	
	Alarm Status : Green/Red	
	Communication Status : Green/Red	
Isolation Method	transformer isolation	
Isolation	500 VDC	
Protective Circuit	Overvoltage Protection / Undervoltage Protection / Overcurrent Protection	
Connection Method	Push-in connection	
General Specifications		
Dimensions (W*D*H)	25 x 105 x 69mm	
Weight	80 g	80 g
Mounting Type	DIN rail mounting	
Operation Temperature	-10 ... 60 °C	
Storage Temperature	-25 ... 85 °C	
Relative humidity (without condensation)	RH 95%	
Altitude Limit	< 2000 m	
Degree of Protection	IP 20	
Pollution Degree	II	
Product Certification	CE, UL	
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)	
Stripping Length	9 mm	
Terminals	DN00510D / DN00710D	
Marketing Label	TM45W*2	

Fieldbus Coupler Module



Product Model	GX-CL150
Communication Specifications	
Communication Protocol	CC-Link IE Field Basic
Connection Method	RJ-45
Number of Interfaces	2
Transmission speed	10/100 Mbps
Technical Specifications	
Max. Expansion Module	64 slots
Max. Input Data Length	RX: 64 bits; RWr: 32 Words (1 occupied station) RX: 128 bits; RWr: 64 Words (2 occupied stations) RX: 192 bits; RWr: 96 Words (3 occupied stations) RX: 256 bits; RWr: 128 Words (4 occupied stations)
Max. Output Data Length	RY: 64 bits; RWw: 32 Words (1 occupied station) RY: 128 bits; RWw: 64 Words (2 occupied stations) RY: 192 bits; RWw: 96 Words (3 occupied stations) RY: 256 bits; RWw: 128 Words (4 occupied stations)
Supply Voltage(System)	24 VDC (-15%~+20%)
Current Consumption(System)	Max. 100 mA@24VDC
Indicator Description	System power status: Green System status: Green/Red Alarm status: Red RUN status: Green
Isolation Method	transformer isolation
Isolation	500 VDC
Protective Circuit	Overvoltage Protection / Undervoltage Protection / Overcurrent Protection
Connection Method	Push-in connection
General Specifications	
Dimensions (W*D*H)	25 x 105 x 69mm
Weight	80 g
Mounting Type	DIN rail mounting
Operation Temperature	-10 ... 60 °C
Storage Temperature	-25 ... 85 °C
Relative humidity (without condensation)	5% - 90% non-condensing
Altitude Limit	< 2000 m
Degree of Protection	IP 20
Pollution Degree	II
Product Certification	CE, UL
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)
Stripping Length	9 mm
Terminals	DN00510D / DN00710D
Marketing Label	TM45W*2

Digital Input Module



Product Model	GX-DI40N		GX-DI40P
Technical Specifications			
Number of Input Channels	16		
Supply Voltage(Field)	24 VDC (-15%~+20%)		
Current Consumption(Field)	Max. 51mA@24VDC	Max. 21mA@24VDC	
Supply Voltage(System)	5 VDC; via power jumper contacts		
Current Consumption(System)	Max. 60mA@5VDC		
Input Current per Channel for Signal	2.4mA		
Input Voltage Range for signal (0)	15VDC...30 VDC	0 VDC...10 VDC	
Input Voltage Range for Signal (1)	0 VDC...10 VDC	15 VDC...30 VDC	
Input Filter	3ms		
Input Type	Sink	Source	
Indicator Description	16 Green / Input Status		
	Power Status : Green		
	System Status : Green		
	Alarm Status : Red		
Isolation Method	Photocoupler Isolation		
Isolation	500V		
Protective Circuit	Overvoltage Protection		
Connection Method	Push-in connection		
General Specifications			
Dimensions (W*D*H)	12 x 105 x 69mm		
Weight	62 g		
Mounting Type	DIN rail mounting		
Operating Temperature	-10 ... 60 °C		
Storage Temperature	-25...+85 °C		
Relative humidity (without condensation)	RH 95%		
Altitude Limit	< 2000 m		
Degree of Protection	IP20		
Pollution Degree	II		
Product Certification	CE, UL		
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)		
Stripping Length	9 mm		
Terminals	DN00510D / DN00710D		
Marketing Label	TM44W		

Digital Input Module



Product Model	GX-DI50N		GX-DI50P
Technical Specifications			
Number of Input Channels	32		
Supply Voltage(Field)	24 VDC (-15%~+20%)		
Current Consumption(Field)	Max. 65mA@24VDC	Max. 5mA@24VDC	
Supply Voltage(System)	5 VDC; via power jumper contacts		
Current Consumption(System)	Max. 150mA@5VDC	Max. 170mA@5VDC	
Input Current per Channel for Signal	2.4mA		
Input Voltage Range for signal (0)	15VDC...30 VDC	0 VDC...10 VDC	
Input Voltage Range for Signal (1)	0 VDC...10 VDC	15 VDC...30 VDC	
Input Filter	3ms		
Input Type	Sink	Source	
Indicator Description	32 Green / Input Status		
	Power Status : Green		
	System Status : Green		
	Alarm Status : Red		
Isolation Method	Photocoupler Isolation		
Isolation	500V		
Protective Circuit	Overvoltage Protection		
Connection Method	Push-in connection		
General Specifications			
Dimensions (W*D*H)	24 x 105 x 69 mm		
Weight	80 g		
Mounting Type	DIN rail mounting		
Operating Temperature	-10 ... 60 °C		
Storage Temperature	-25...+85 °C		
Relative humidity (without condensation)	RH 95%		
Altitude Limit	< 2000 m		
Degree of Protection	IP20		
Pollution Degree	II		
Product Certification	CE, UL		
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)		
Stripping Length	9 mm		
Terminals	DN00510D / DN00710D		
Marketing Label	TM44W		

Digital Input Module



Product Model	GX-DI51N		GX-DI51P	
Technical Specifications				
Number of Input Channels	32			
Supply Voltage(Field)	24 VDC (-15%~+20%)			
Current Consumption(Field)	Max. 55mA@24VDC		Max. 5mA@24VDC	
Supply Voltage(System)	5 VDC; via power jumper contacts			
Current Consumption(System)	150 mA Max @ 5 VDC		171 mA Max @ 5 VDC	
Input Current per Channel for Signal	2.4mA			
Input Voltage Range for Signal (0)	15VDC...30 VDC		0 VDC...10 VDC	
Input Voltage Range for Signal (1)	0 VDC...10 VDC		15 VDC...30 VDC	
Input Filter	3ms			
Input Type	Sink		Source	
Indicator Description	16 Green Input Status/1 Green channel Switch			
	System Power Status : Green			
	Field Power Status : Green			
	Alarm Status : Red			
Isolation Method	Photocoupler Isolation			
Isolation	500V			
Protective Circuit	Overvoltage Protection			
Connection Method	IDC connector (34-pole)			
General Specifications				
Dimensions (W*D*H)	12 x 105 x 69 mm			
Weight	80 g			
Mounting Type	DIN rail mounting			
Operating Temperature	-10 ... 60 °C			
Storage Temperature	-25...+85 °C			
Relative humidity (without condensation)	RH 95%			
Altitude Limit	< 2000 m			
Degree of Protection	IP20			
Pollution Degree	II			
Product Certification	CE, UL			
Marketing Label	TM44W			

Digital Output Module



Product Model	GX-DQ40N		GX-DQ40P	
	Technical Specifications			
Number of Output Channels	16			
Supply Voltage(Field)	24 VDC (-15%~+20%)			
Current Consumption(Field)	Min. 5mA@24VDC		Min, 5mA@24VDC	
Supply Voltage(System)	5 VDC; via power jumper contacts			
Current Consumption(System)	Max. 110mA@5VDC			
Max. Output Current per Channel	0.5A			
Load Type	Resistive, inductive, lamp load			
Switching frequency (max.)	1kHz		1kHz	
Output Type	Sink		Source	
Indicator Description	16 Green / Output Status			
	System Power Status : Green			
	Field Power Status : Green			
	Alarm Status : Red			
Isolation Method	Photocoupler Isolation			
Isolation	500V			
Protective Circuit	undervoltage protection / overvoltage protection			
Connection Method	Push-in connection			
	General Specifications			
Dimensions (W*D*H)	12 x 105 x 69 mm			
Weight	65 g			
Mounting Type	DIN rail mounting			
Operating Temperature	-10 ... 60 °C			
Storage Temperature	-25...+85 °C			
Relative humidity (without condensation)	RH 95%			
Altitude Limit	< 2000 m			
Degree of Protection	IP20			
Pollution Degree	II			
Product Certification	CE, UL			
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)			
Stripping Length	9 mm			
Terminals	DN00510D / DN00710D			
Marketing Label	TM44W			

Digital Output Module



Product Model	GX-DQ50N		GX-DQ50P
Technical Specifications			
Number of Output Channels	32		
Supply Voltage(Field)	24 VDC (-15%~+20%)		
Current Consumption(Field)	Min. 5mA@24VDC	Min. 5mA@24VDC	
Supply Voltage(System)	5 VDC; via power jumper contacts		
Current Consumption(System)	Max. 170mA@5VDC	Max. 160mA@5VDC	
Max. Output Current per Channel	0.5A		
Load Type	Resistive, inductive, lamp load		
Switching frequency (max.)	1kHz	1kHz	
Output Type	Sink	Source	
Indicator Description	32 Green / Output Status		
	System Power Status : Green		
	Field Power Status : Green		
	Alarm Status : Red		
Isolation Method	Photocoupler Isolation		
Isolation	500V		
Protective Circuit	undervoltage protection / overvoltage protection		
Connection Method	Push-in connection		
General Specifications			
Dimensions (W*D*H)	24 x 105 x 69 mm		
Weight	107 g		
Mounting Type	DIN rail mounting		
Operating Temperature	-10 ... 60 °C		
Storage Temperature	-25...+85 °C		
Relative humidity (without condensation)	RH 95%		
Altitude Limit	< 2000 m		
Degree of Protection	IP20		
Pollution Degree	II		
Product Certification	CE, UL		
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)		
Stripping Length	9 mm		
Terminals	DN00510D / DN00710D		
Marketing Label	TM44W		

Digital Output Module



Product Model	GX-DQ51N		GX-DQ51P	
	Technical Specifications			
Number of Output Channels	32			
Supply Voltage(Field)	24 VDC (-15%~+20%)			
Current Consumption(Field)	Min. 5mA@24VDC		Min. 5mA@24VDC	
Supply Voltage(System)	5 VDC; via power jumper contacts			
Current Consumption(System)	275 mA Max @ 5 VDC		275 mA Max @ 5 VDC	
Max. Output Current per Channel	0.1A			
Load Type	Resistive, inductive, lamp load			
Switching frequency (max.)	1kHz		1kHz	
Output Type	Sink		Source	
Indicator Description	16 Green Input Status/1 Green channel Switch			
	System Power Status : Green			
	Field Power Status : Green			
	Alarm Status : Red			
Isolation Method	Photocoupler Isolation			
Isolation	500V			
Protective Circuit	undervoltage protection / overvoltage protection			
Connection Method	IDC connector (34-pole)			
	General Specifications			
Dimensions (W*D*H)	12 x 105 x 69 mm			
Weight	80 g			
Mounting Type	DIN rail mounting			
Operating Temperature	-10 ... 60 °C			
Storage Temperature	-25...+85 °C			
Relative humidity (without condensation)	RH 95%			
Altitude Limit	< 2000 m			
Degree of Protection	IP20			
Pollution Degree	II			
Product Certification	CE, UL			
Marketing Label	TM44W			

Analog Input Module



Product Model	GX-AI21V		GX-AI31V	
Technical Specifications				
Number of Input Channels	4		8	
Supply Voltage(Field)	24 VDC (-15%~+20%)			
Current Consumption(Field)	Max. 15mA@24VDC		Max. 10mA@24VDC	
Supply Voltage(System)	5 VDC; via power jumper contacts			
Current Consumption(System)	Max. <70mA@5VDC		Max. <80mA@5VDC	
Resolution	12 bit			
Signal type	-10V ~ +10V			
	0V ~ +10V			
	0V ~ +5V			
	1V ~ +5V			
Signal Characteristics	Differential signal			
Accuracy	±0.1%			
Internal Resistance	≥1 MΩ			
Conversion time	10ms			
Indicator Description	4 Green Input Status		8 Green Input Status	
	Power Status : Green			
	System Status : Green			
	Alarm Status : Red			
Isolation Method	Photocoupler Isolation			
Isolation	500V			
Connection Method	Push-in connection			
General Specifications				
Dimensions (W*D*H)	12 x 105 x 69 mm			
Weight	60g			
Mounting Type	DIN rail mounting			
Operating Temperature	-10 ... 60 °C			
Storage Temperature	-25...+85 °C			
Relative humidity (without condensation)	RH 95%			
Altitude Limit	< 2000 m			
Degree of Protection	IP20			
Pollution Degree	II			
Product Certification	CE, UL			
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)			
Stripping Length	9 mm			
Terminals	DN00510D / DN00710D			
Marketing Label	TM44W			

Analog Input Module



Product Model	GX-AI22V	GX-AI32V
Technical Specifications		
Number of Input Channels	4	8
Supply Voltage(Field)	24 VDC (-15%~+20%)	
Current Consumption(Field)	Max. 15mA@24VDC	Max. 10mA@24VDC
Supply Voltage(System)	5 VDC; via power jumper contacts	
Current Consumption(System)	Max. <70mA@5VDC	Max. <80mA@5VDC
Resolution	16 bit	
Signal type	-10V ~ +10V	
	0V ~ +10V	
	0V ~ +5V	
	1V ~ +5V	
Signal Characteristics	Differential signal	
Accuracy	±0.1%	
Internal Resistance	≥1 MΩ	
Conversion time	10ms	
Indicator Description	4 Green Input Status	8 Green Input Status
	Power Status : Green	
	System Status : Green	
	Alarm Status : Red	
Isolation Method	Photocoupler Isolation	
Isolation	500V	
Connection Method	Push-in connection	
General Specifications		
Dimensions (W*D*H)	12 x 105 x 69 mm	
Weight	60g	
Mounting Type	DIN rail mounting	
Operating Temperature	-10 ... 60 °C	
Storage Temperature	-25...+85 °C	
Relative humidity (without condensation)	RH 95%	
Altitude Limit	< 2000 m	
Degree of Protection	IP20	
Pollution Degree	II	
Product Certification	CE, UL	
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)	
Stripping Length	9 mm	
Terminals	DN00510D / DN00710D	
Marketing Label	TM44W	

Analog Input Module



Product Model	GX-AI21C	GX-AI31C
Technical Specifications		
Number of Input Channels	4	8
Supply Voltage(Field)	24 VDC (-15%~+20%)	
Current Consumption(Field)	Max. 15mA@24VDC	Max. 10mA@24VDC
Supply Voltage(System)	5 VDC; via power jumper contacts	
Current Consumption(System)	Max. <70mA@5VDC	Max. <80mA@5VDC
Resolution	12 bit	
Signal type	0mA ~ 20mA	
	4mA ~ 20mA	
Signal Characteristics	Differential signal	
Accuracy	±0.1%	
Internal Resistance	250Ω, (Max)	
Conversion time	10ms	
Indicator Description	4 Green Input Status	8 Green Input Status
	Power Status : Green	
	System Status : Green	
	Alarm Status : Red	
Isolation Method	Photocoupler Isolation	
Isolation	500V	
Connection Method	Push-in connection	
General Specifications		
Dimensions (W*D*H)	12 x 105 x 69 mm	
Weight	60g	
Mounting Type	DIN rail mounting	
Operating Temperature	-10 ... 60 °C	
Storage Temperature	-25...+85 °C	
Relative humidity (without condensation)	RH 95%	
Altitude Limit	< 2000 m	
Degree of Protection	IP20	
Pollution Degree	II	
Product Certification	CE, UL	
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)	
Stripping Length	9 mm	
Terminals	DN00510D / DN00710D	
Marketing Label	TM44W	

Analog Input Module



Product Model	GX-AI22C		GX-AI32C	
	Technical Specifications			
Number of Input Channels	4		8	
Supply Voltage(Field)	24 VDC (-15%~+20%)			
Current Consumption(Field)	Max. 15mA@24VDC		Max. 10mA@24VDC	
Supply Voltage(System)	5 VDC; via power jumper contacts			
Current Consumption(System)	Max. <70mA@5VDC		Max. <80mA@5VDC	
Resolution	16 bit			
Signal type	0mA ~ 20mA			
	4mA ~ 20mA			
Signal Characteristics	Differential signal			
Accuracy	±0.1%			
Internal Resistance	250Ω, (Max)			
Conversion time	10ms			
Indicator Description	4 Green Input Status		8 Green Input Status	
	Power Status : Green			
	System Status : Green			
	Alarm Status : Red			
Isolation Method	Photocoupler Isolation			
Isolation	500V			
Connection Method	Push-in connection			
	General Specifications			
Dimensions (W*D*H)	12 x 105 x 69 mm			
Weight	60g			
Mounting Type	DIN rail mounting			
Operating Temperature	-10 ... 60 °C			
Storage Temperature	-25...+85 °C			
Relative humidity (without condensation)	RH 95%			
Altitude Limit	< 2000 m			
Degree of Protection	IP20			
Pollution Degree	II			
Product Certification	CE, UL			
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)			
Stripping Length	9 mm			
Terminals	DN00510D / DN00710D			
Marketing Label	TM44W			

Analog Output Module



Product Model	GX-AQ21V	GX-AQ31V
	Technical Specifications	
Number of Output Channels	4	8
Supply Voltage(Field)	24 VDC (-15%~+20%)	
Current Consumption(Field)	Max. 45mA@24VDC	Max. 25mA@24VDC
Supply Voltage(System)	5 VDC; via power jumper contacts	
Current Consumption(System)	Max. <70mA@5VDC	Max. <90mA@5VDC
Resolution	12 bit	
Signal type	-10V ~ +10V	
	0V ~ +10V	
	0V ~ +5V	
	1V ~ +5V	
Load impedance	>2 KΩ	
Indicator Description	4 Green Output Status	8 Green Output Status
	Power Status : Green	
	System Status : Green	
	Alarm Status : Red	
Isolation Method	Photocoupler Isolation	
Isolation	500V	
Connection Method	Push-in connection	
	General Specifications	
Dimensions (W*D*H)	12 x 105 x 69 mm	
Weight	64g	
Mounting Type	DIN rail mounting	
Operating Temperature	-10 ... 60 °C	
Storage Temperature	-25...+85 °C	
Relative humidity (without condensation)	RH 95%	
Altitude Limit	< 2000 m	
Degree of Protection	IP20	
Pollution Degree	II	
Product Certification	CE, UL	
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)	
Stripping Length	9 mm	
Terminals	DN00510D / DN00710D	
Marketing Label	TM44W	

Analog Output Module



Product Model	GX-AQ22V	GX-AQ32V
Technical Specifications		
Number of Output Channels	4	8
Supply Voltage(Field)	24 VDC (-15%~+20%)	
Current Consumption(Field)	Max. 45mA@24VDC	Max. 25mA@24VDC
Supply Voltage(System)	5 VDC; via power jumper contacts	
Current Consumption(System)	Max. <70mA@5VDC	Max. <90mA@5VDC
Resolution	16 bit	
Signal type	-10V ~ +10V	
	0V ~ +10V	
	0V ~ +5V	
	1V ~ +5V	
Load impedance	>2 KΩ	
Indicator Description	4 Green Output Status	8 Green Output Status
	Power Status : Green	
	System Status : Green	
	Alarm Status : Red	
Isolation Method	Photocoupler Isolation	
Isolation	500V	
Connection Method	Push-in connection	
General Specifications		
Dimensions (W*D*H)	12 x 105 x 69 mm	
Weight	64g	
Mounting Type	DIN rail mounting	
Operating Temperature	-10 ... 60 °C	
Storage Temperature	-25...+85 °C	
Relative humidity (without condensation)	RH 95%	
Altitude Limit	< 2000 m	
Degree of Protection	IP20	
Pollution Degree	II	
Product Certification	CE, UL	
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)	
Stripping Length	9 mm	
Terminals	DN00510D / DN00710D	
Marketing Label	TM44W	

Analog Output Module



Product Model	GX-AQ21C	GX-AQ31C
	Technical Specifications	
Number of Output Channels	4	8
Supply Voltage(Field)	24 VDC (-15%~+20%)	
Current Consumption(Field)	Max. 40mA@24VDC	Max. 35mA@24VDC
Supply Voltage(System)	5 VDC; via power jumper contacts	
Current Consumption(System)	Max. <70mA@5VDC	Max. <90mA@5VDC
Resolution	12 bit	
Signal type	0mA ~ 20mA	
	4mA ~ 20mA	
Load impedance	< 500Ω	
Indicator Description	4 Green Output Status	8 Green Output Status
	Power Status : Green	
	System Status : Green	
	Alarm Status : Red	
Isolation Method	Photocoupler Isolation	
Isolation	500V	
Connection Method	Push-in connection	
	General Specifications	
Dimensions (W*D*H)	12 x 105 x 69 mm	
Weight	64g	
Mounting Type	DIN rail mounting	
Operating Temperature	-10 ... 60 °C	
Storage Temperature	-25...+85 °C	
Relative humidity (without condensation)	RH 95%	
Altitude Limit	< 2000 m	
Degree of Protection	IP20	
Pollution Degree	II	
Product Certification	CE, UL	
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)	
Stripping Length	9 mm	
Terminals	DN00510D / DN00710D	
Marketing Label	TM44W	

Analog Output Module



Product Model	GX-AQ22C	GX-AQ32C
	Technical Specifications	
Number of Output Channels	4	8
Supply Voltage(Field)	24 VDC (-15%~+20%)	
Current Consumption(Field)	Max. 40mA@24VDC	Max. 35mA@24VDC
Supply Voltage(System)	5 VDC; via power jumper contacts	
Current Consumption(System)	Max. <70mA@5VDC	Max. <90mA@5VDC
Resolution	16 bit	
Signal type	0mA ~ 20mA	
	4mA ~20mA	
Load impedance	< 500Ω	
Indicator Description	4 Green Output Status	8 Green Output Status
	Power Status : Green	
	System Status : Green	
	Alarm Status : Red	
Isolation Method	Photocoupler Isolation	
Isolation	500V	
Connection Method	Push-in connection	
	General Specifications	
Dimensions (W*D*H)	12 x 105 x 69 mm	
Weight	64g	
Mounting Type	DIN rail mounting	
Operating Temperature	-10 ... 60 °C	
Storage Temperature	-25...+85 °C	
Relative humidity (without condensation)	RH 95%	
Altitude Limit	< 2000 m	
Degree of Protection	IP20	
Pollution Degree	II	
Product Certification	CE, UL	
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)	
Stripping Length	9 mm	
Terminals	DN00510D / DN00710D	
Marketing Label	TM44W	

Temperature module



Product Model	RTD Module GX-RT200		TC Module GX-TC200
Technical Specifications			
Number of Input Channels	4	Number of Input Channels	4
Supply Voltage(Field)	24 VDC (-15%~+20%)	Supply Voltage(Field)	24 VDC (-15%~+20%)
Current Consumption(Field)	Max. 15mA@24VDC	Current Consumption(Field)	Max. 15mA@24VDC
Supply Voltage(System)	5 VDC; via power jumper contacts	Supply Voltage(System)	5 VDC; via power jumper contacts
Current Consumption(System)	Max. 80mA@5VDC	Current Consumption(System)	Max. 70mA@5VDC
Sensor Type	Pt50, Pt100, Pt200, Pt500 (-200°C~850°C) Pt1000 (-200°C~300°C) Ni100 (-60°C~180°C) Ni120 (-80°C~260°C)	Sensor Type	B, E, J, K, N, R, S, and T
Sensor Connection	2/3/4 - wire	Conversion Time	200 ms
Conversion Time	30 ms	Resolution	16 bit
Resolution	16 bit	Accuracy	±0.3% FSR
Accuracy	±0.1% FSR	Indicator Description	4 Green Input States
Indicator Description	4 Green Input States	Isolation Method	Photocoupler Isolation
Isolation Method	Photocoupler Isolation	Protective Circuit	Overvoltage Protection
Protective Circuit	Overvoltage Protection	Connection Method	Push-in connection
Connection Method	Push-in connection		
General Specifications			
Dimensions (W*D*H)	12 x 105 x 69 mm	Dimensions (W*D*H)	12 x 105 x 69 mm
Weight	70 g	Weight	62 g
Mounting Type	DIN rail mounting	Mounting Type	DIN rail mounting
Operating Temperature	-10 ... 60 °C	Operating Temperature	-10 ... 60 °C
Storage Temperature	-25...+85 °C	Storage Temperature	-25...+85 °C
Relative humidity (without condensation)	RH 95%	Relative humidity (without condensation)	RH 95%
Altitude Limit	< 2000 m	Altitude Limit	< 2000 m
Degree of Protection	IP20	Degree of Protection	IP20
Pollution Degree	II	Pollution Degree	II
Product Certification	CE, UL	Product Certification	CE, UL
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)	Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)
Stripping Length	9 mm	Stripping Length	9 mm
Terminals	DN00510D / DN00710D	Terminals	DN00510D / DN00710D
Marketing Label	TM44W	Marketing Label	TM44W

Serial Communication Module



HSC Module



Product Model	GX-CM111	GX-HC100	
Technical Specifications			
Number of Channels	3	Number of counters	2
Supply Voltage(System)	5VDC	Supply Voltage (Field)	24 VDC (-15%~+20%)
Current Consumption	Max. 130mA @ 5VDC	Current Consumption(Field)	Min. 40mA@24VDC
Communication Protocol	Modbus RTU	Supply Voltage(System)	5 VDC; via power jumper contacts
Communication Mode	Modbus Master, Slave	Current Consumption(System)	Max. 160mA@5VDC
Baud Rate	1200 ~ 115.2 kbps	Max Counting rate	Max 500kHz
Signal Type	RS232, RS485	Voltage Range for Signal (0)	0 VDC...7VDC
Data Bits	7, 8	Voltage Range for Signal (1)	12 VDC...24 VDC
Stop Bits	1, 2	Counting Type	Encoder mode/Direction mode/ Up mode/Down mode
Parity	None, Odd, Even	Number of Output Channels	2
Character Interval	1.5T~200T, defaultT:3.5T	Max. Output Current per Channel for Signal	0.5A
Response Timeout	default, 1000 ms	Output Type	SOURCE
Polling Time	default, 100 ms	Number of Input Channels	2
Read Data Processing Mode	Hold the last input value, clear the input value	Input Voltage Range for Signal	(0) : 0 VDC...10 VDC, (1) : 15 VDC...30 VDC
Data Output Mode	Polling, data changes event	Input Filter	3ms
Power on Event Output	Prohibit, Enable	Input Type	Sink / Source
Module Control Enable	Prohibit, Enable	Indicator Description	2 Green Output States 12 Green Input States System Power Status : Green Field Power Status : Green Alarm Status : Red
Module Control Mode	Polling, rising edge trigger		
Slave ID	default, 1		
Slave Response Time	default, 50 ms		
Free Port Communication	auto-report, reply mode		
Indicator Description	3 Green Send States 3 Red Error States System Power Status : Green Alarm Status : Red	Isolation Method	Photocoupler Isolation
		Protective Circuit	Overvoltage Protection
		Connection Method	Push-in connection
Connection Method	Push-in connection		
General Specifications			
Dimensions (W*D*H)	12 x 105 x 69 mm	Dimensions (W*D*H)	12 x 105 x 69 mm
Weight	65 g	Weight	62 g
Mounting Type	DIN rail mounting	Mounting Type	DIN rail mounting
Operating Temperature	-10...+60 °C	Operating Temperature	-10...+60 °C
Storage Temperature	-25...+85 °C	Storage Temperature	-25...+85 °C
Relative humidity (without condensation)	RH 95%	Relative humidity (without condensation)	RH 95%
Altitude Limit	< 2000 m	Altitude Limit	< 2000 m
Degree of Protection	IP20	Degree of Protection	IP20
Pollution Degree	II	Pollution Degree	II
Product Certification	CE, UL	Product Certification	CE, UL
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)	Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)
Stripping Length	9 mm	Stripping Length	9 mm
Terminals	DN00510D / DN00710D	Terminals	DN00510D / DN00710D
Marketing Label	TM44W	Marketing Label	TM44W

Pulse Output Module



Product Model	GX-PL100
Technical Specifications	
Number of Input Channels	8
Input Type	SINK / SOURCE
Supply Voltage(Field)	24 VDC (-15%~+20%)
Current Consumption(Field)	Min. 25mA@24VDC
Supply Voltage(System)	5 VDC; via power jumper contacts
Current Consumption(System)	Max. 100mA@5VDC
Pulse output voltage	Determined by input voltage
Pulse output frequency	200kHz
Pulse mode	Single pulse (pulse + direction), dual pulse (CW/CCW)
Number of Pulse Output Channels	2
Pulse output type	SINK
Input Channel Function	Positive limit switch, negative limit switch, origin switch, brake
Input Signal Logic Selection	Normally Open, Normally Closed
Exercise mode	Absolute position mode, relative position mode, velocity mode
trapezoidal acceleration and deceleration	Support
Home mode	Supports 4 sizes (19, 21, 24, 28)
Emergency brake	Support
Indicator Description	8 Green Input States 、 4 Green Output Status
	System Power Status : Green
	Field Power Status : Green
Connection Method	Alarm Status : Red
	Push-in connection
General Specifications	
Dimensions (W*D*H)	12 x 105 x 69 mm
Weight	70 g
Mounting Type	DIN rail mounting
Operating Temperature	-10...+60 °C
Storage Temperature	-25...+85 °C
Relative humidity (without condensation)	RH 95%
Altitude Limit	< 2000 m
Degree of Protection	IP20
Pollution Degree	II
Product Certification	CE, UL
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)
Stripping Length	9 mm
Terminals	DN00510D / DN00710D
Marketing Label	TM44W

Power Module



Product Model	GX-PS110	GX-PS111	
Technical Specifications			
Supply Voltage (Field)	24 VDC (-15%~+20%)	Supply Voltage (Field)	24 VDC (-15%~+20%)
Current carrying capacity (Field)	Max 6.0 A	Current carrying capacity (Field)	Max 8.0 A
Protection (Field)	overcurrent protection, anti-reverse connection protection over voltage protection, under voltage protection	Protection (Field)	overcurrent protection, anti-reverse connection protection over voltage protection, under voltage protection
Supply Voltage (System)	5 VDC	Indicator Description	Field Power Status : Green
Total current (system supply)	Max 2.0 A @5VDC	Connection Method	Push-in connection
Protection (System)	overcurrent protection, anti-reverse connection protection over voltage protection, under voltage protection		
Indicator Description	System Power Status : Green Field Power Status : Green		
Connection Method	Push-in connection		
General Specifications			
Dimensions (W*D*H)	12 x 105 x 69 mm	Dimensions (W*D*H)	12 x 105 x 69 mm
Weight	65 g	Weight	60 g
Mounting Type	DIN rail mounting	Mounting Type	DIN rail mounting
Operating Temperature	-10...+60 °C	Operating Temperature	-10 ... 60 °C
Storage Temperature	-25...+85 °C	Storage Temperature	-25...+85 °C
Relative humidity (without condensation)	RH 95%	Relative humidity (without condensation)	RH 95%
Altitude Limit	< 2000 m	Altitude Limit	< 2000 m
Degree of Protection	IP20	Degree of Protection	IP20
Pollution Degree	II	Pollution Degree	II
Product Certification	CE, UL	Product Certification	CE, UL
Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)	Conductor Cross Section	0.2mm ² ...1.5mm ² (AWG 24...16)
Stripping Length	9 mm	Stripping Length	9 mm
Terminals	DN00510D / DN00710D	Terminals	DN00510D / DN00710D

Marking Label

TM44W	TM45W

iO-GRID NEMO

P30	PROFINET	32 ch Digital Input, Sink Type	GFND-1A1A
		32 ch Digital Input, Source Type	GFND-2A2A
		32 ch Digital Output, Sink Type	GFND-3A3A
		32 ch Digital Output, Source Type	GFND-4A4A
		16 ch Digital Input/Output, Sink Type	GFND-1A3A
		16 ch Digital Input/Output, Source Type	GFND-2A4A
P31	EtherCAT	32 ch Digital Input, Sink Type	GFNC-1A1A
		32 ch Digital Input, Source Type	GFNC-2A2A
		32 ch Digital Output, Sink Type	GFNC-3A3A
		32 ch Digital Output, Source Type	GFNC-4A4A
		16 ch Digital Input/Output, Sink Type	GFNC-1A3A
		16 ch Digital Input/Output, Source Type	GFNC-2A4A
P32	EtherNet/IP	32 ch Digital Input, Sink Type	GFNF-1A1A
		32 ch Digital Input, Source Type	GFNF-2A2A
		32 ch Digital Output, Sink Type	GFNF-3A3A
		32 ch Digital Output, Source Type	GFNF-4A4A
		16 ch Digital Input/Output, Sink Type	GFNF-1A3A
		16 ch Digital Input/Output, Source Type	GFNF-2A4A
P33	Modbus TCP	32 ch Digital Input, Sink Type	GFNB-1A1A
		32 ch Digital Input, Source Type	GFNB-2A2A
		32 ch Digital Output, Sink Type	GFNB-3A3A
		32 ch Digital Output, Source Type	GFNB-4A4A
		16 ch Digital Input/Output, Sink Type	GFNB-1A3A
		16 ch Digital Input/Output, Source Type	GFNB-2A4A
P34	CC-LINK	32 ch Digital Input, Sink Type	GFNH-1A1A
		32 ch Digital Input, Source Type	GFNH-2A2A
		32 ch Digital Output, Sink Type	GFNH-3A3A
		32 ch Digital Output, Source Type	GFNH-4A4A
		16 ch Digital Input/Output, Sink Type	GFNH-1A3A
		16 ch Digital Input/Output, Source Type	GFNH-2A4A
P35	CC-Link IE Field Basic	32 ch Digital Input, Sink Type	GFNK-1A1A
		32 ch Digital Input, Source Type	GFNK-2A2A
		32 ch Digital Output, Sink Type	GFNK-3A3A
		32 ch Digital Output, Source Type	GFNK-4A4A
		16 ch Digital Input/Output, Sink Type	GFNK-1A3A
		16 ch Digital Input/Output, Source Type	GFNK-2A4A
P36	CC-Link IE Field Basic	24 ch Digital Input / 8 ch Digital Output, Sink Type	GFNK-1C38
		8 ch Digital Input / 24 ch Digital Output, Sink Type	GFNK-183C

PROFINET



Product Model	GFND-1A1A	GFND-2A2A	GFND-3A3A	GFND-4A4A	GFND-1A3A	GFND-2A4A
Communication Specifications						
Communication Protocol	PROFINET					
Connection Method	RJ-45 jack					
Number of Interfaces	2					
Transmission speed	10/100 Mbps					
Technical Specifications						
Max. Input Data Length	4 bytes	4 bytes	----	----	2 bytes	2 bytes
Max. Output Data Length	----	----	4 bytes	4 bytes	2 bytes	2 bytes
Supply Voltage	24 VDC (-15%~+20%)					
Current Consumption	Max. 130mA@24VDC	Max. 130mA@24VDC	Max. 170mA@24VDC	Max. 160mA@24VDC	Max. 150mA@24VDC	Max. 150mA@24VDC
Number of Channels	32 Channel Input		32 Channel Output		16 Channel Input / 16 Channel Output	
Input Type	Sink	Source	----	----	Sink	Source
Output Type	----	----	Sink	Source	Sink	Source
Input Voltage range for signal (0)	15VDC...30 VDC	0 VDC...10 VDC	----	----	15VDC...30 VDC	0 VDC...10 VDC
Input Voltage Range for Signal (1)	0 VDC...10 VDC	15VDC...30 VDC	----	----	0 VDC...10 VDC	15VDC...30 VDC
Max. Output current per channel	----	----	0.5A	0.5A	0.5A	0.5A
Input Filter	3ms	3ms	----	----	3ms	3ms
Load type	----	----	Ohmic load/ inductive load / lamp load		Ohmic load/ inductive load / lamp load	
Indicator Description	32 Green / Input Status		32 Green / Output Status		16 Green / Input Status / Output Status	
			Power Status : Green			
			System Status : Green			
			Alarm Status : Green/Red			
Isolation Method	Communication Status : Green/Red					
Isolation	Digital Isolator					
Protective Circuit	500V					
Connection Method	Overvoltage Protection / Undervoltage Protection / Overcurrent Protection					
	Push-in connection					
General Specifications						
Dimensions (W*D*H)	25 x 116 x 85 mm					
Weight	140 g					
Mounting Type	DIN rail mounting					
Operation Temperature	-10 ... 60 °C					
Storage Temperature	-25...+85 °C					
Relative humidity (without condensation)	RH 95%					
Altitude Limit	< 2000 m					
Degree of Protection	IP20					
Pollution Degree	II					
Product Certification	CE, UL					
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)					
Stripping Length	9 mm					
Terminals	Channel : DN00208D / DN00308D / DN00508D / DN00708D / DN01008D Power : DN00510D / DN00710D					

EtherCAT



Product Model	GFNC-1A1A	GFNC-2A2A	GFNC-3A3A	GFNC-4A4A	GFNC-1A3A	GFNC-2A4A
Communication Specifications						
Communication Protocol	EtherCAT					
Connection Method	RJ-45 jack					
Number of Interfaces	2					
Transmission speed	100 Mbps					
Technical Specifications						
Max. Input Data Length	4 bytes	4 bytes	----	----	2 bytes	2 bytes
Max. Output Data Length	----	----	4 bytes	4 bytes	2 bytes	2 bytes
Supply Voltage	24 VDC (-15%~+20%)					
Current Consumption	Max. 110mA@24VDC	Max. 110mA@24VDC	Max. 140mA@24VDC	Max. 140mA@24VDC	Max. 130mA@24VDC	Max. 130mA@24VDC
Number of Channels	32 Channel Input		32 Channel Output		16 Channel Input / 16 Channel Output	
Input Type	Sink	Source	----	----	Sink	Source
Output Type	----	----	Sink	Source	Sink	Source
Input Voltage range for signal (0)	15VDC...30 VDC	0 VDC...10 VDC	----	----	15VDC...30 VDC	0 VDC...10 VDC
Input Voltage Range for Signal (1)	0 VDC...10 VDC	15VDC...30 VDC	----	----	0 VDC...10 VDC	15VDC...30 VDC
Max. Output current per channel	----	----	0.5A	0.5A	0.5A	0.5A
Input Filter	3ms	3ms	----	----	3ms	3ms
Load type	----	----	Ohmic load/ inductive load / lamp load		Ohmic load/ inductive load / lamp load	
	32 Green / Input Status		32 Green / Output Status		16 Green / Input Status / Output Status	
Indicator Description	Power Status : Green System Status : Green Alarm Status : Green/Red Communication Status : Green/Red					
Isolation Method	Digital Isolator					
Isolation	500V					
Protective Circuit	Overvoltage Protection / Undervoltage Protection / Overcurrent Protection					
Connection Method	Push-in connection					
General Specifications						
Dimensions (W*D*H)	25 x 116 x 85 mm					
Weight	140 g					
Mounting Type	DIN rail mounting					
Operation Temperature	-10 ... 60 °C					
Storage Temperature	-25...+85 °C					
Relative humidity (without condensation)	RH 95%					
Altitude Limit	< 2000 m					
Degree of Protection	IP20					
Pollution Degree	II					
Product Certification	CE, UL					
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)					
Stripping Length	9 mm					
Terminals	Channel : DN00208D / DN00308D / DN00508D / DN00708D / DN01008D Power : DN00510D / DN00710D					

EtherNet/IP



Product Model		GFNF-1A1A	GFNF-2A2A	GFNF-3A3A	GFNF-4A4A	GFNF-1A3A	GFNF-2A4A
Communication Specifications							
Communication Protocol	EtherNet/IP						
Connection Method	RJ-45 jack						
Number of Interfaces	2						
Transmission speed	10/100 Mbps						
Technical Specifications							
Max. Input Data Length	4 bytes	4 bytes	----	----	2 bytes	2 bytes	
Max. Output Data Length	----	----	4 bytes	4 bytes	2 bytes	2 bytes	
Supply Voltage	24 VDC (-15%~+20%)						
Current Consumption	Max. 130mA@24VDC	Max. 130mA@24VDC	Max. 170mA@24VDC	Max. 160mA@24VDC	Max. 150mA@24VDC	Max. 150mA@24VDC	
Number of Channels	32 Channel Input		32 Channel Output		16 Channel Input / 16 Channel Output		
Input Type	Sink	Source	----	----	Sink	Source	
Output Type	----	----	Sink	Source	Sink	Source	
Input Voltage range for signal (0)	15VDC...30 VDC	0 VDC...10 VDC	----	----	15VDC...30 VDC	0 VDC...10 VDC	
Input Voltage Range for Signal (1)	0 VDC...10 VDC	15VDC...30 VDC	----	----	0 VDC...10 VDC	15VDC...30 VDC	
Max. Output current per channel	----	----	0.5A	0.5A	0.5A	0.5A	
Input Filter	3ms	3ms	----	----	3ms	3ms	
Load type	-----	-----	Ohmic load/ inductive load / lamp load		Ohmic load/ inductive load / lamp load		
Indicator Description	32 Green / Input Status		32 Green / Output Status		16 Green / Input Status / Output Status		
	Power Status : Green						
	System Status : Green						
	Alarm Status : Green/Red						
	Communication Status : Green/Red						
Isolation Method	Digital Isolator						
Isolation	500V						
Protective Circuit	Overvoltage Protection / Undervoltage Protection / Overcurrent Protection						
Connection Method	Push-in connection						
General Specifications							
Dimensions (W*D*H)	25 x 116 x 85 mm						
Weight	140 g						
Mounting Type	DIN rail mounting						
Operation Temperature	-10 ... 60 °C						
Storage Temperature	-25...+85 °C						
Relative humidity (without condensation)	RH 95%						
Altitude Limit	< 2000 m						
Degree of Protection	IP20						
Pollution Degree	II						
Product Certification	CE, UL						
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)						
Stripping Length	9 mm						
Terminals	Channel : DN00208D / DN00308D / DN00508D / DN00708D / DN01008D Power : DN00510D / DN00710D						

Modbus TCP



Product Model	GFNB-1A1A	GFNB-2A2A	GFNB-3A3A	GFNB-4A4A	GFNB-1A3A	GFNB-2A4A
Communication Specifications						
Communication Protocol	Modbus TCP					
Connection Method	RJ-45					
Number of Interfaces	2					
Transmission speed	10/100 Mbps					
Technical Specifications						
Max. Input Data Length	4 bytes	4 bytes	----	----	2 bytes	2 bytes
Max. Output Data Length	----	----	4 bytes	4 bytes	2 bytes	2 bytes
Supply Voltage	24 VDC (-15%~+20%)					
Current Consumption	Max. 130mA@24VDC	Max. 130mA@24VDC	Max. 170mA@24VDC	Max. 160mA@24VDC	Max. 150mA@24VDC	Max. 150mA@24VDC
Number of Channels	32 Channel Input		32 Channel Output		16 Channel Input / 16 Channel Output	
Input Type	Sink	Source	----	----	Sink	Source
Output Type	----	----	Sink	Source	Sink	Source
Input Voltage range for signal (0)	15VDC...30 VDC	0 VDC...10 VDC	----	----	15VDC...30 VDC	0 VDC...10 VDC
Input Voltage Range for Signal (1)	0 VDC...10 VDC	15VDC...30 VDC	----	----	0 VDC...10 VDC	15VDC...30 VDC
Max. Output current per channel	----	----	0.5A	0.5A	0.5A	0.5A
Input Filter	3ms	3ms	----	----	3ms	3ms
Load type	----	----	Ohmic load/ inductive load / lamp load		Ohmic load/ inductive load / lamp load	
	32 Green / Input Status		32 Green / Output Status		16 Green / Input Status / Output Status	
Indicator Description	Power Status : Green System Status : Green Alarm Status : Green/Red Communication Status : Green/Red					
Isolation Method	Digital Isolator					
Isolation	500V					
Protective Circuit	Overvoltage Protection / Undervoltage Protection / Overcurrent Protection					
Connection Method	Push-in connection					
General Specifications						
Dimensions (W*D*H)	25 x 116 x 85 mm					
Weight	140 g					
Mounting Type	DIN rail mounting					
Operation Temperature	-10 ... 60 °C					
Storage Temperature	-25...+85 °C					
Relative humidity (without condensation)	RH 95%					
Altitude Limit	< 2000 m					
Degree of Protection	IP20					
Pollution Degree	II					
Product Certification	CE, UL					
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)					
Stripping Length	9 mm					
Terminals	Channel : DN00208D / DN00308D / DN00508D / DN00708D / DN01008D Power : DN00510D / DN00710D					

CC-LINK



Product Model	GFNH-1A1A	GFNH-2A2A	GFNH-3A3A	GFNH-4A4A	GFNH-1A3A	GFNH-2A4A
Communication Specifications						
Communication Protocol	CC-Link					
Connection Method	Push-in connection					
Number of Interfaces	1					
Transmission speed	156/625 Kbps, 2.5/5/10 Mbps					
Technical Specifications						
Max. Input Data Length	4 bytes	4 bytes	----	----	2 bytes	2 bytes
Max. Output Data Length	----	----	4 bytes	4 bytes	2 bytes	2 bytes
Supply Voltage	24 VDC (-15%~+20%)					
Current Consumption	Max. 70mA@24VDC	Max. 70mA@24VDC	Max. 100mA@24VDC	Max. 90mA@24VDC	Max. 80mA@24VDC	Max. 80mA@24VDC
Number of Channels	32 Channel Input		32 Channel Output		16 Channel Input / 16 Channel Output	
Input Type	Sink	Source	----	----	Sink	Source
Output Type	----	----	Sink	Source	Sink	Source
Input Voltage range for signal (0)	15VDC...30 VDC	0 VDC...10 VDC	----	----	15VDC...30 VDC	0 VDC...10 VDC
Input Voltage Range for Signal (1)	0 VDC...10 VDC	15VDC...30 VDC	----	----	0 VDC...10 VDC	15VDC...30 VDC
Max. Output current per channel	----	----	0.5A	0.5A	0.5A	0.5A
Input Filter	3ms	3ms	----	----	3ms	3ms
Load type	----	----	Ohmic load/ inductive load / lamp load		Ohmic load/ inductive load / lamp load	
Indicator Description	32 Green / Input Status		32 Green / Output Status		16 Green / Input Status / Output Status	
	Power Status : Green					
	Run Status : Green					
	Data send/receive : Green/Green					
	Communication Status : Red					
Isolation Method	Digital Isolator					
Isolation	500V					
Protective Circuit	Overvoltage Protection / Undervoltage Protection / Overcurrent Protection					
Connection Method	Push-in connection					
General Specifications						
Dimensions (W*D*H)	25 x 116 x 85 mm					
Weight	140 g					
Mounting Type	DIN rail mounting					
Operation Temperature	-10 ... 60 °C					
Storage Temperature	-25...+85 °C					
Relative humidity (without condensation)	RH 95%					
Altitude Limit	< 2000 m					
Degree of Protection	IP20					
Pollution Degree	II					
Product Certification	CE, UL					
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)					
Stripping Length	9 mm					
Terminals	Channel : DN00208D / DN00308D / DN00508D / DN00708D / DN01008D Power : DN00510D / DN00710D					

CC-Link IE Field Basic



Product Model	GFNK-1A1A	GFNK-2A2A	GFNK-3A3A	GFNK-4A4A	GFNK-1A3A	GFNK-2A4A
Communication Specifications						
Communication Protocol	CC-Link IE Field Basic					
Connection Method	RJ-45					
Number of Interfaces	2					
Transmission speed	100 Mbps					
Technical Specifications						
Max. Input Data Length	32 bits	32 bits	----	----	16 bits	16 bits
Max. Output Data Length	----	----	32 bits	32 bits	16 bits	16 bits
Supply Voltage	24 VDC (-15%~+20%)					
Current Consumption	Max. 120mA@24VDC	Max. 130mA@24VDC	Max. 150mA@24VDC	Max. 160mA@24VDC	Max. 130mA@24VDC	Max. 150mA@24VDC
Number of Channels	32 inputs		32 outputs		16 inputs / 16 outputs	
Input Type	Sink	Source	----	----	Sink	Source
Output Type	----	----	Sink	Source	Sink	Source
Signal Input Voltage Range (0)	15VDC...30 VDC	0 VDC...10 VDC	----	----	15VDC...30 VDC	0 VDC...10 VDC
Signal Input Voltage Range (1)	0 VDC...10 VDC	15VDC...30 VDC	----	----	0 VDC...10 VDC	15VDC...30 VDC
Max. Signal Output Current per Channel	----	----	0.5A	0.5A	0.5A	0.5A
Total Module Output Current	----	----	Max. 5A	Max. 5A	Max. 3A	Max. 3A
Input Filter	3ms	3ms	----	----	3ms	3ms
Load Type	----		Resistive load, inductive load		Resistive load, inductive load	
Indicator Description	32 input status indicators (green)		32 output status indicators (green)		16 input / 16 output status indicators (green)	
	PW system power status: Green SYS status: Green ERR alarm status: Red RUN status: Green		PW system power status: Green SYS status: Green ERR alarm status: Red RUN status: Green		PW system power status: Green SYS status: Green ERR alarm status: Red RUN status: Green	
Isolation Method	Optocoupler Isolation					
Isolation	500 VDC					
Protective Circuit	Power: overvoltage / overcurrent / reverse polarity protection		Power: overvoltage / overcurrent / reverse polarity protection Output channel: overvoltage / overcurrent protection			
Connection Method	Push-in connection					
General Specifications						
Dimensions (W*D*H)	25 x 116 x 85 mm					
Weight	140 g					
Mounting Type	DIN rail mounting					
Operation Temperature	-10 ... 60 °C					
Storage Temperature	-25...+85 °C					
Relative humidity (without condensation)	5% - 90% non-condensing					
Altitude Limit	< 2000 m					
Degree of Protection	IP20					
Pollution Degree	II					
Product Certification	CE, UL					
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)					
Stripping Length	9 mm					
Terminals	Channel: DN00508D / DN00708D / DN01008D Power: DN00510D / DN00710D					

CC-Link IE Field Basic



Product Model	GFNK-1C38	GFNK-183C
Communication Specifications		
Communication Protocol	CC-Link IE Field Basic	
Connection Method	RJ-45	
Number of Interfaces	2	
Transmission speed	100 Mbps	
Technical Specifications		
Max. Input Data Length	24 bits	8 bits
Max. Output Data Length	8 bits	24 bits
Supply Voltage	24 VDC (-15%~+20%)	
Current Consumption	Max. 150mA@24VDC	Max. 130mA@24VDC
Number of Channels	24 inputs / 8 outputs	8 inputs / 24 outputs
Input Type	Sink	Sink
Output Type	Sink	Sink
Signal Input Voltage Range (0)	11VDC...30 VDC	11VDC...30 VDC
Signal Input Voltage Range (1)	-3VDC...5 VDC	-3VDC...5 VDC
Max. Signal Output Current per Channel	0.5A	0.5A
Total Module Output Current	Max. 4A	Max. 1.5A
Input Filter	3ms	3ms
Load Type	Resistive load, inductive load	Resistive load, inductive load
Indicator Description	24 input / 8 output status indicators (green)	8 input / 8 output status indicators (green)
	PW system power status: Green	
	SYS status: Green	
	ERR alarm status: Red	
	RUN status: Green	
Isolation Method	Digital Isolator	
Isolation	500 VDC	
Protective Circuit	Power: overvoltage / overcurrent / reverse polarity protection Output channel: overvoltage / overcurrent protection	
Connection Method	Push-in connection	
General Specifications		
Dimensions (W*D*H)	25 x 116 x 85 mm	
Weight	140 g	
Mounting Type	DIN rail mounting	
Operation Temperature	-10 ... 60 °C	
Storage Temperature	-25...+85 °C	
Relative humidity (without condensation)	5% - 90% non-condensing	
Altitude Limit	< 2000 m	
Degree of Protection	IP20	
Pollution Degree	II	
Product Certification	CE, UL	
Conductor Cross Section	0.2mm² ... 1.5mm²(AWG 24...16)	
Stripping Length	9 mm	
Terminals	Channel: DN00508D / DN00708D / DN01008D Power: DN00510D / DN00710D	

Ethernet Switch

Rugged Industrial Ethernet Switch



Introduction

- Industrial 5/8-port 10/100/1000M Ethernet Switch
- Engineered with a wide range VDC power input.
- Specifically tailored for demanding environments, including hazardous industrial settings or centralized control stations where the reliability of the device is paramount.
- Compact form factor makes it an ideal solution for Industrial Automation, IP surveillance, traffic monitoring, and an extensive array of applications
- Undergone rigorous testing to ensure its suitability for Security, Transportation, and Telco applications.

Ethernet Switch



Product Model	GIS-0801		GIS-0811		GIS-0501		GIS-0511	
Specifications								
Connection Method	10/100M		10/100/1000M		10/100M		10/100/1000M	
	8xRJ-45		8xRJ-45		5xRJ-45		5xRJ-45	
Dimensions (W*D*H)	100.5 x 81.5 x 40 mm				100.5 x 60 x 25.5 mm			
Storage Temperature	-40°C ~85°C							
Operating Temperature	-40°C ~75°C							
Safety	LVD (EN62368-1)							
EMC	CE (EN 55032/35), FCC							
EMI	FCC Part 15 Subpart B Class A							
EMS	IEC 61000-4-2 ESD: Contact: 6KV; Air: 8KV IEC 61000-4-4 EFT: Power: 2KV; Signal: 2KV IEC 61000-4-5 Surge: Power: 2KV; Signal: 2KV							
Power Supply	DC 9.6-60V Power Input							
Power Consumption	1.68W@48 VDC full load		3.36W@48 VDC full load		1.232W@48 VDC full load		2.688W@48 VDC full load	

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