Before using the units

To use the units safely and effectively, please read this document and refer to GFK-2745 & network adapter user manuals for further details.

Warnings and Cautions

Warning notices are used in this publication to emphasize that hazardous voltages, currents, temperatures, or other conditions that could cause personal injury exist in this equipment or may be associated with its use. In situations where inattention could cause either personal injury or damage to equipment, a Warning notice is used. **Warning!**

- Installing or removing modules or wiring with power applied to the system or field wiring can cause an electrical arc. This can result in unexpected and potentially dangerous action by field devices. Arcing is an explosion risk in hazardous locations. Be sure that the area is non-hazardous or remove power appropriately before installing or removing modules or wiring.
- Potentially dangerous voltages are present on a module's terminals, even when system power is turned off. Field power must be turned off when installing or removing a Terminal Block assembly.
- Personnel who install, operate and maintain automation systems that contain these products must be trained and qualified to perform those functions.
- Overloading power modules or Network adapter can result into electric arc & damage to modules.

Caution notices are used where equipment might be damaged if care is not taken. **Caution!**

- Check the rated voltage and terminal array before wiring.
- Ensure that specified environmental conditions are not exceeded. Avoid placing the module in direct sunlight.
- Review module specifications carefully, and ensure that input and output connections are made in accordance with the specifications.
- Use specified cables for wiring.
- Field Power Isolators must be used according to the requirements of the 5VDC/24VDC/48VDC or AC Voltage modules used in the system.
- If system power consumption exceeds the power limits, use system power expansion modules.
- System power and field power must be supplied from separate sources.

1. Power Module specifications*

▶ 1-1. Power Module Specifications

Model	ST-7111	ST-7511	ST-7241	ST-7641
System Input Voltage range	11Vdc to 28.8Vdc		--	
System Power Input Voltage	Normal 24Vdc		--	
Field Power Input Voltage	Normal 24Vdc (20%)		Arbitrary 5Vdc,24Vdc,48Vdc,120Vac,240Vac	
I/O Bus 5Vdc current	Max. 5Vdc, 1A		--	
Field Power Contacts Current	Max. 10A			
Indicator	2 Green Input state	1 Green/Red LED, Module Status / 2Green LED, Input Status	Non Indicate	1 Green/Red LED, Module Status
Type	--	ID Type	--	ID Type
Cable wiring	I/O Cable Max. 2.0㎟ (AWG 14)			
Surrounding Air Temp./ Ambient Temp.	-20℃ to 55℃ for UL applications ; -20℃ to 60℃ for non-UL applications ; Storage -40℃ to 85℃			
Relative Humidity	5% ~ 90%, without condensation			

* Specifications and designs could be changed without advance notice

1. Power Module specifications*

▶ 1-2. Potential distributor module Specifications

Model	ST-7008	ST-7108	ST-7118	ST-7188	ST-7408	ST-7508	ST-7518	ST-7588
Field Power Voltage	Shield	0Vdc	24Vdc	24Vdc, 0Vdc	Shield	0Vdc/L2/N*	24Vdc/L1*	24Vdc/L1*, 0Vdc/L2/N*
Field Power Contacts Current	Max.10A							
indicator	No Indication				1 Green/Red LED, Module Status			
Power dissipation	Expansion Power Distributor	--		Expansion Power Distributor	--		Max. 18mA @ 5Vdc	
Type	--				ID Type			
Cable wiring	I/O Cable Max. 2.0㎟(AWG 14)							
Surrounding Air Temp./ Ambient Temp.	-20℃ to 55℃ for UL applications ; -20℃ to 60℃ for non-UL applications ; Storage -40℃ to 85℃							
Relative Humidity	5% ~ 90%, without condensation							

* L1, *L2/N, 120 ~240Vac ;

2. Release Information

Part Number	ST-7111-AA	ST-7511-AA	ST-7241-AA	ST-7641-AA	ST-7008-AA	ST-7108-AA	ST-7118-AA	ST-7188-AA
HW Version	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Firmware Revision	20.000	20.000	20.000	20.000	20.000	20.000	20.000	20.000

Part Number	ST-7408-AA	ST-7508-AA	ST-7518-AA	ST-7588-AA
HW Version	20.00	20.00	20.00	20.00
Firmware Revision	20.000	20.000	20.000	20.000

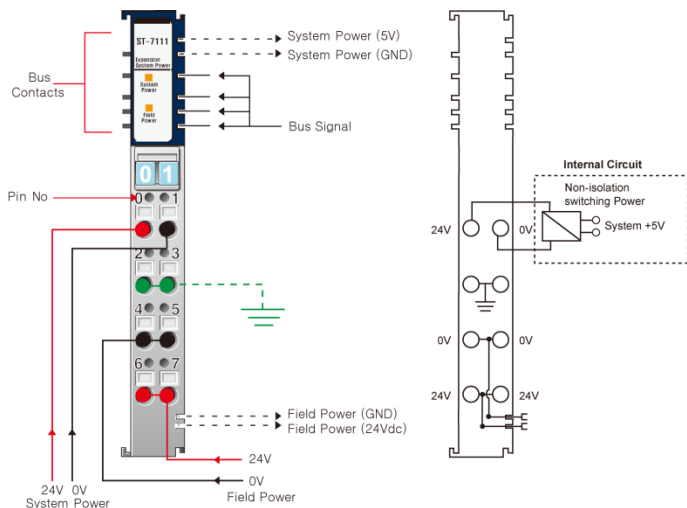## 3. Electronic Documentation

Manuals:
> *PACSystems RSTi I/O User Manual, GFK-2745*
> *PACSystems RSTi Network Adapter User Manuals*

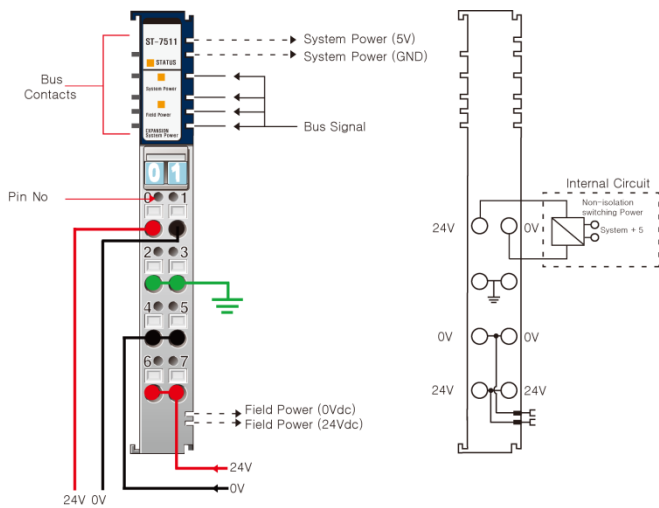The most recent user documents are available on the Support website: http://www.ge-ip.com/support

* Specifications and designs could be changed without advance notice
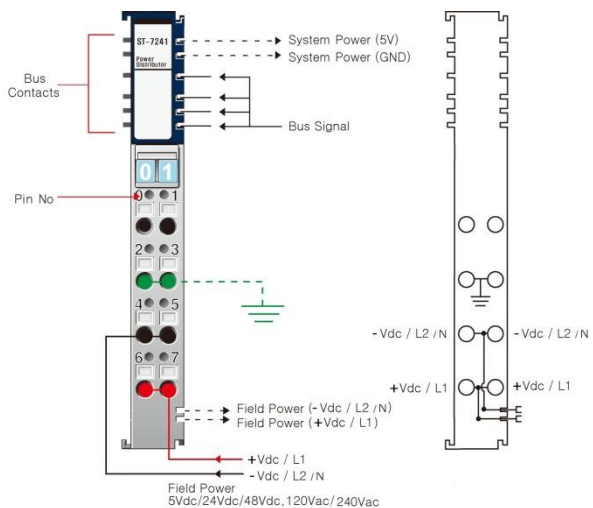
4. Wiring Diagrams

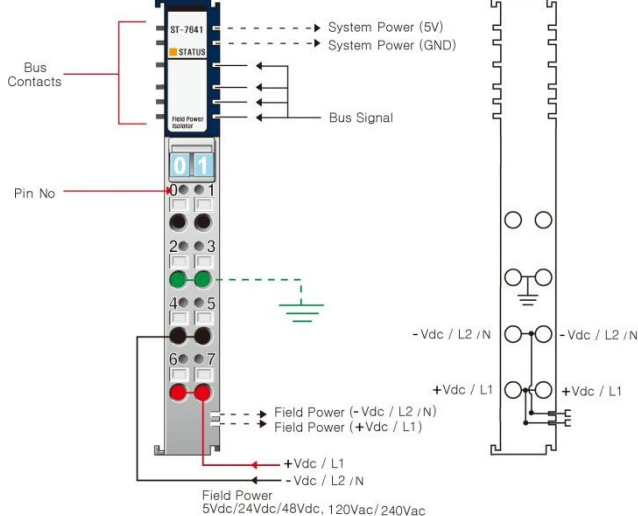## ST-7111 : 1Channel Expansion Power Supply Module

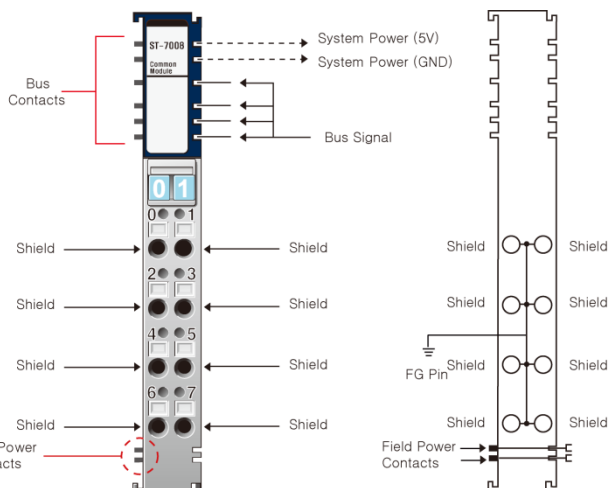## ST-7511 : 1Channel Expansion Power Supply, ID Type

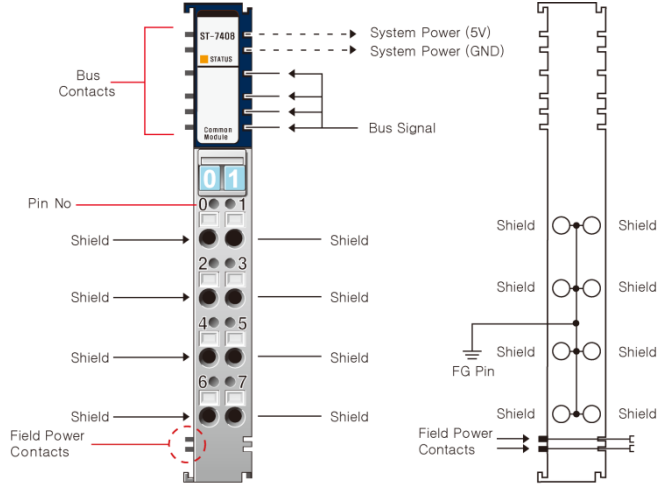## ST-7241 : 1Channel Field Distributor, 5V~48Vdc, 120~240Vac

ST-7641 : 1Channel Field Distributor Module , 5V~48Vdc, 120~240Vac, ID Type
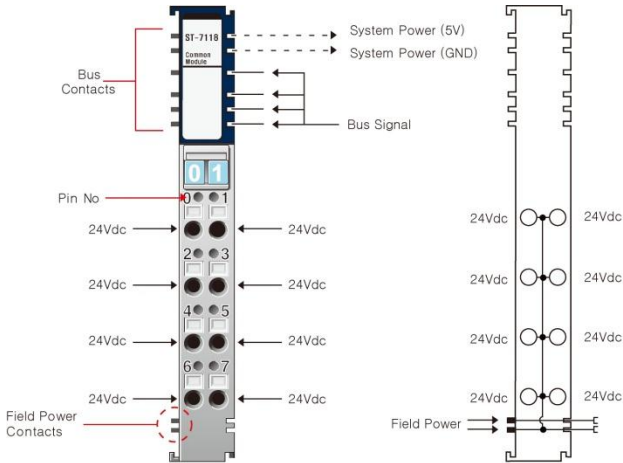

ST-7008 : 8 Channels Shield Module

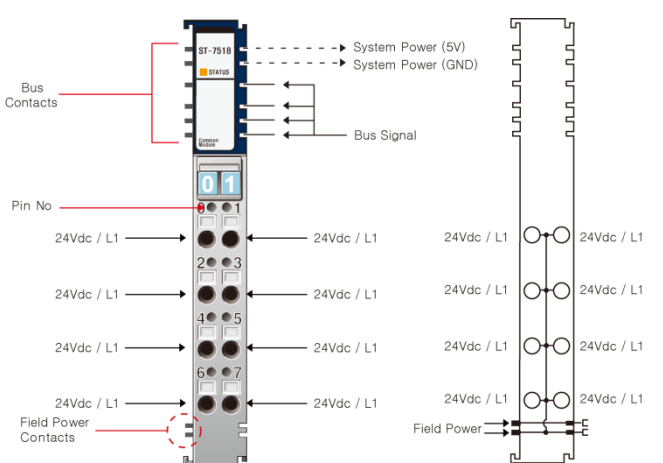## ST-7408 : 8Channels Shield Module. ID Type
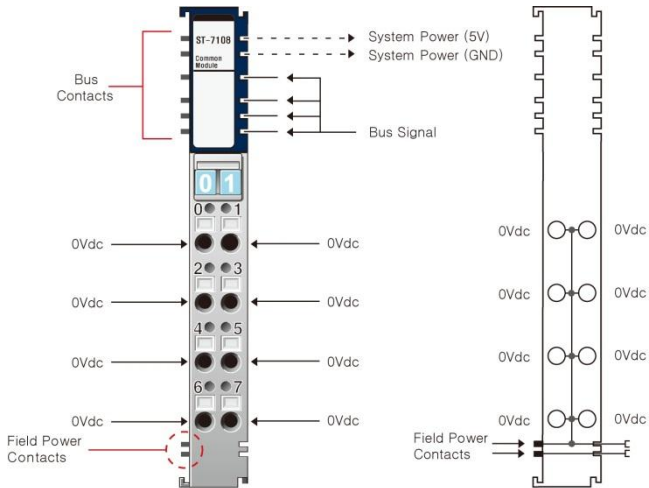
4. Wiring Diagrams

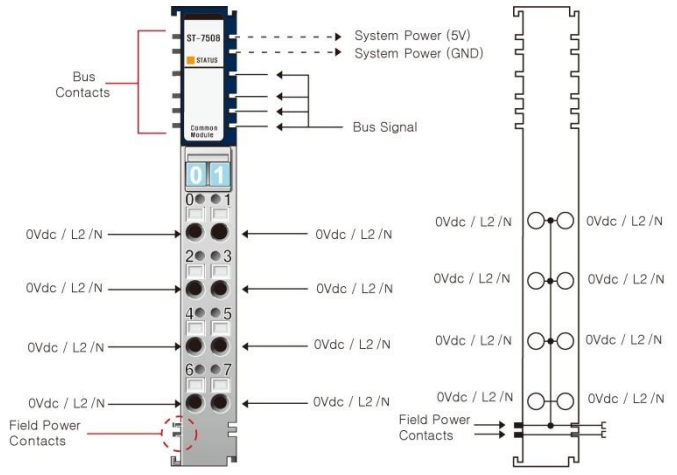## ST-7118 : 8Channels Common Module 24Vdc

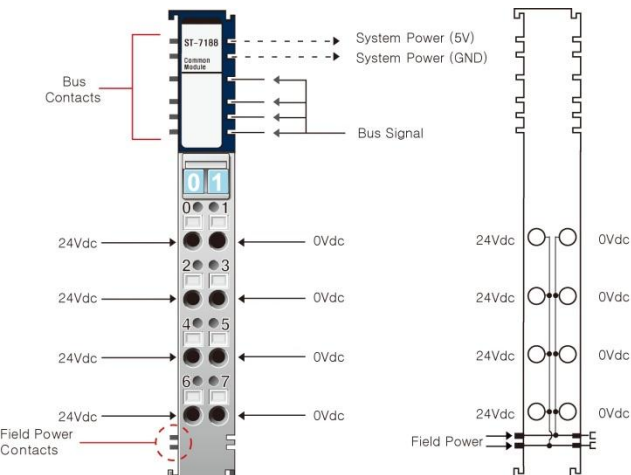## ST-7518 : 8 Channels Common, 24Vdc/L1 ID Type

ST-7108 : 8 Channels Common Module, 0V

ST-7508 : 8Channels Common, 0Vdc/L2/N ID Type

ST-7188 : 8Channels Common Module 24Vdc & 0Vdc

ST-7588 : 8Channels Common Module 24Vdc/L1 & 0Vdc/L2/N ID Type