

LSGCM09 Ethernet/IP (CIP) Communication module

LS communication Ethernet / IP (CIP) communication : 1ch

■ Summary



- * Communication port : 1
- * Module ambient temperature : -5 to 60°C

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Specifications

ITEM		SPECIFICATION	
Communication port	Number of channels	1 * ¹	
	Communication speed	100Mbps / 10Mbps	
	Communication size	IO device (Implicit) * ²	Process input : Maximum 5712byte Process output : Maximum 5760byte
		PLC device (Explicit) * ²	Transmission (request data) : Maximum 1400byte Reception (response data) : Maximum 1400byte
	Communication method	CSMA / CD method	
	Number of connections	IO device	Maximum 64 devices
		PLC device	Maximum 4 devices
	Communication port number	502	
	Communication mode	Supports client function and server function	
	Action mode	Supports only Master mode	
Function code	Supports the following function codes 1:Coil Reading DO 2:Input status Reading DI 3:Holding register Reading AO 4:Input register Reading AI 5:Coil Write 1 point to DO 6:Holding register Write 1 point to AO 15:Multiple coils Batch writing to DO 16:Multiple holding register Batch writing to AO		
Number of registered commands	For IO device : 64 command * ³ For PLC device : 100 command * ³		
Duplication correspondence	Possible(Two units installed , Select data in CPU Application Logic)		
Dielectric voltage	DC500V		
Communication with IOA	Communication method	LVDS	
	Communication speed	100Mbps	
Self-diagnostic functions	Power voltage check (24V, 3.3V, 1.2V) Clock abnormal check (FPGA-MCU for diagnosis, MCU for diagnosis -FPGA) Heartbeat check (FPGA=>MCU for diagnosis, MCU for diagnosis=>FPGA, FPGA=>MCU for communication) CRC check (FPGA) Exception interrupt check(MCU for communication) Check communication setting file(MCU for communication) Connection check with host computer(DPS, MPS, etc.)(MCU for communication)		
Supported protocol	Ethernet / IP master		
Protection	(Power supply protection) Overvoltage protection Overcurrent protection		
Indicator	Status indicator LED	4 : RUN(Run)/STS(Status)/NSA(Network status A)/NSB(Network status B)	
	Communication status display LED	2(LINK:1 , ACTIVE:1)	
Hot swap	Possible		
Power supply	DC24V ±20% (The voltage supplied from the backplane)		
Environmental conditions	Module ambient temperature	(Operating) -5 to 60°C (Storage) -40 to 85°C	
	Module ambient humidity	Less than 95%RH (No condensation)	
Vibration	3.5mm @ 5 to 8.4 Hz 1G @ 8.4 to 150 Hz		
Shock	15G 11ms		
Current consumption	Less than 150mA		
Weight	0.164kg		
Dimensions	97mmD x 94mmH x 46mmW (Except projection)		
Standard/Directive	IEC61131-2-2007, RoHS		

* About compliant module type

For compliant modules of this product, please refer to "Compliant backplane list (CGS-S9901-E-XX)".

For compliant modules of this product, please refer to "Compliant accessory connector list (CGS-S9902-E-XX)".

*¹ Although this communication port has 2 ports, it can be connected to either port.

However, please do not connect 2 ports except loop connection.

*² "Implicit" is a communication that is made periodically after establishing a connection in advance.

"Explicit" is a communication that transmits a request command from the master side to the partner device and receives response data from the partner device in response to the request command.

Explicit communication supports only non-connection type communication.

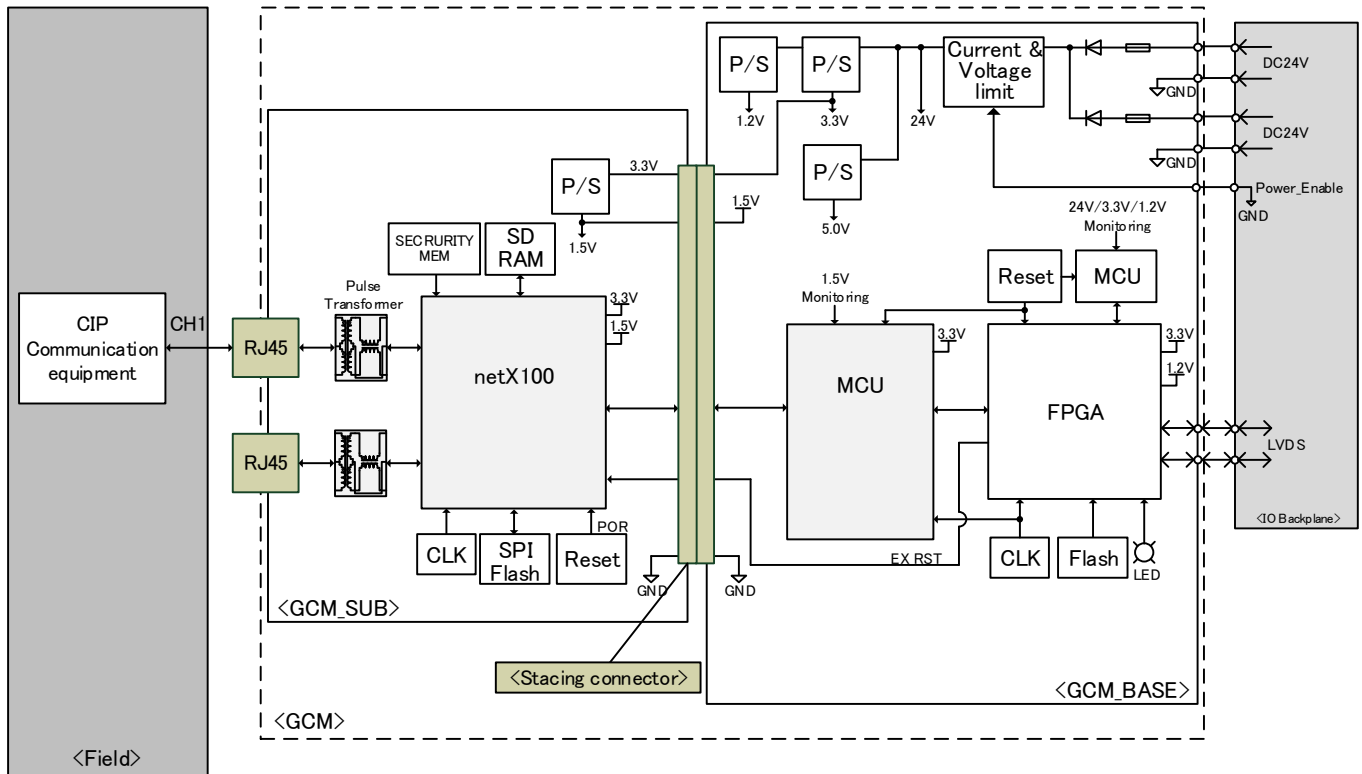
*³ The number (value) written here does not guarantee the operation.

Depending on the system environment, adjustment such as slowing down the communication cycle is required.

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■ Block diagram



- P/S : Power supply
- CLK : Clock
- FPGA : Field programmable gate array
- LED : Light emitting diode
- MCU : Micro control unit
- GND : Ground
- Serial GNDx : Isolation ground
- LVDS : Low Voltage Differential Signaling
- BP : BackPlane
- ⎓ : fuse
- ⏏ : diode

When using, please read the instruction manual attached to the product carefully and use it properly.

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