MITSUBISHI POWER

LSGCM09 Ethernet/IP (CIP) Communication module

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

■Summary

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

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■Specifications

ITEM			SPECIFICATION
Communication port	Number of channels		1 *1
	Communication speed		100 Mbps / 10 Mbps
	Communication size	IO device (Implicit) *2	Process input: Maximum 5712 byte Process output: Maximum 5760 byte
		PLC device (Explicit) *2	Transmission (request data): Maximum 1400 byte Reception (response data): Maximum 1400 byte
	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
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) *4
Dielectric voltage			DC 500 V
Communication with IOA	Communicaton method		LVDS
	Communication speed		100 Mbps
Self-diagnostic functions			Power voltage check (24 V, 3.3 V, 1.2 V) 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			DC 24 V ±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		(Operating / Storage) 10 to 95% RH (No condensation)
Vibration			3.5 mm @ 5 to 8.4 Hz 1 G @ 8.4 to 150 Hz
Shock			15 G 11 ms
Current consumption			Less than 150 mA
Weight			0.164 kg
Dimensions			97 mm (D) x 94 mm (H) x 46 mm (W) (Except projection)
Standard/Directive			EN 61131-2:2007, 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.
*4 It can be used as a redundant by installing two of this module, establishing two independent communication lines, and then selecting the data in the upper application logic.

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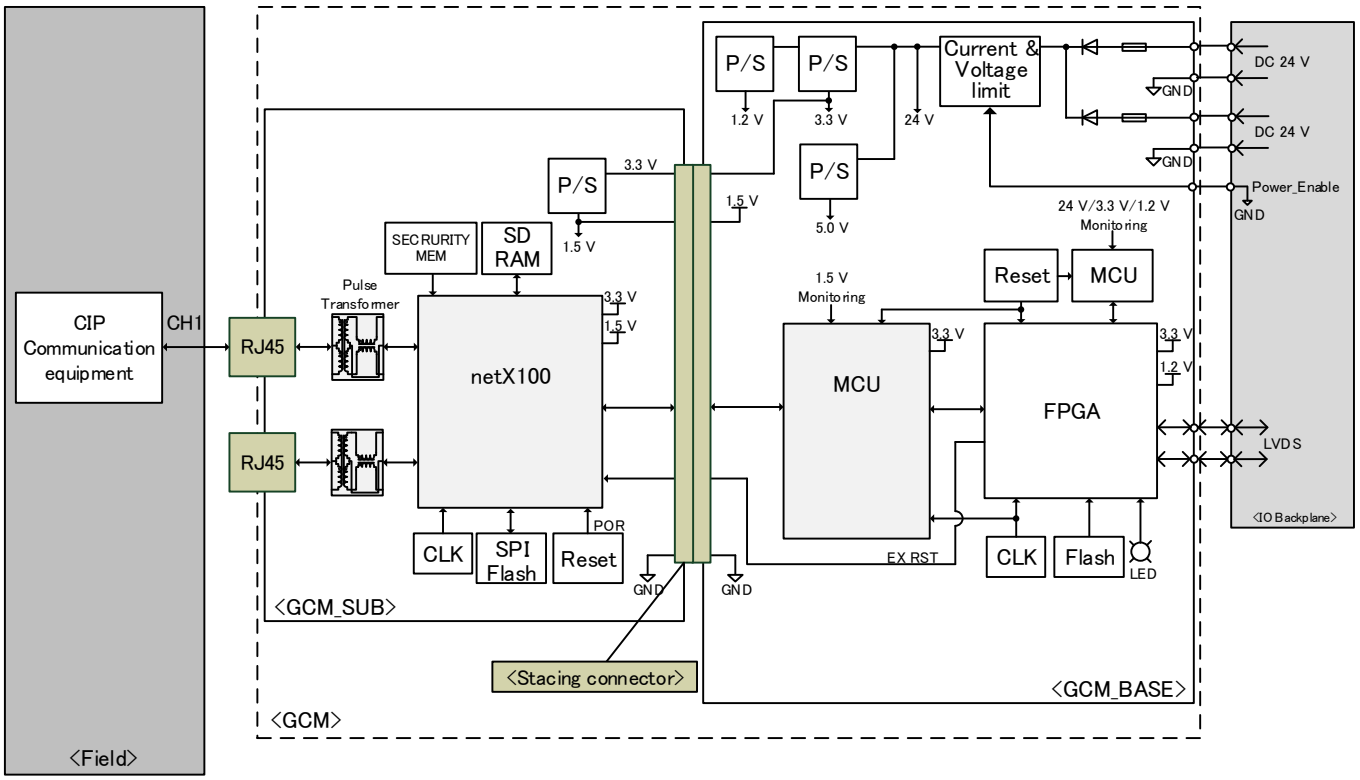
■Block diagram



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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