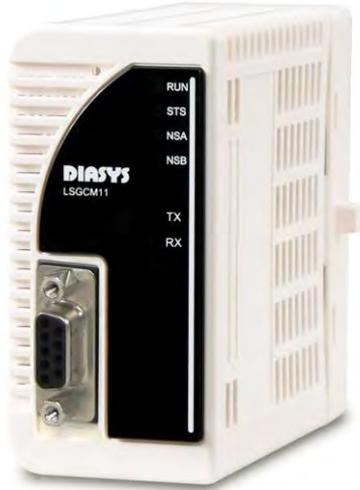


LSGCM11 Profibus (RS485) Communication module

LS communication Profibus (RS485) : 1 ch

■ Summary



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

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■ Specifications

ITEM		SPECIFICATION
Communication port	Number of channels	1
	Communication speed	9.6 kbps, 19.2 kbps, 93.75 kbps, 187.5 kbps, 0.5 Mbps, 1.5 Mbps, 12 Mbps
	Communication size	·Periodic data Maximum 244 byte / unit Process input from all SLAVE devices : Maximum 5712 byte Process output to all SLAVE devices : Maximum 5760 byte ·Non-periodic data (DIAG, ALARM) Maximum 240 byte / unit
	Communication method	Hybrid system (Token passing method and master / slave communication method)
	Number of SLAVE devices connected	Maximum 125 unit * ¹
	Action mode	Master mode
	Supported protocol	DP-V0, DP-V1 Class 1
	Number of registered commands	·Periodic communication: Maximum 125 command * ¹ ·DIAG, ALARM For reception: Each Maximum 125 command * ¹
	PROFIBUS communication ID	GCM (MASTER)side communication ID is 1. * ²
Duplication correspondence	Possible (Two units installed, Data selection in CPU Application Logic) * ³	
Dielectric voltage	DC 500 V	
Communication with IOA	Communication method	LVDS
	Communication speed	100 Mbps
Self-diagnostic functions	Power voltage check (24 V, 3.3 V, 1.5 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)	
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 TXD (CH 1 TXD Status) / RXD (CH 1 RXD Status)
Hot swap		Possible
Power supply		DC 24 V \pm 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
Rated Current		150 mA
Weight		170 g
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 Depending on the system environment, adjustment such as slowing down the communication cycle is required.

*² The communication ID at the time of module doubled the control side 1, and the stand-by side with 0.

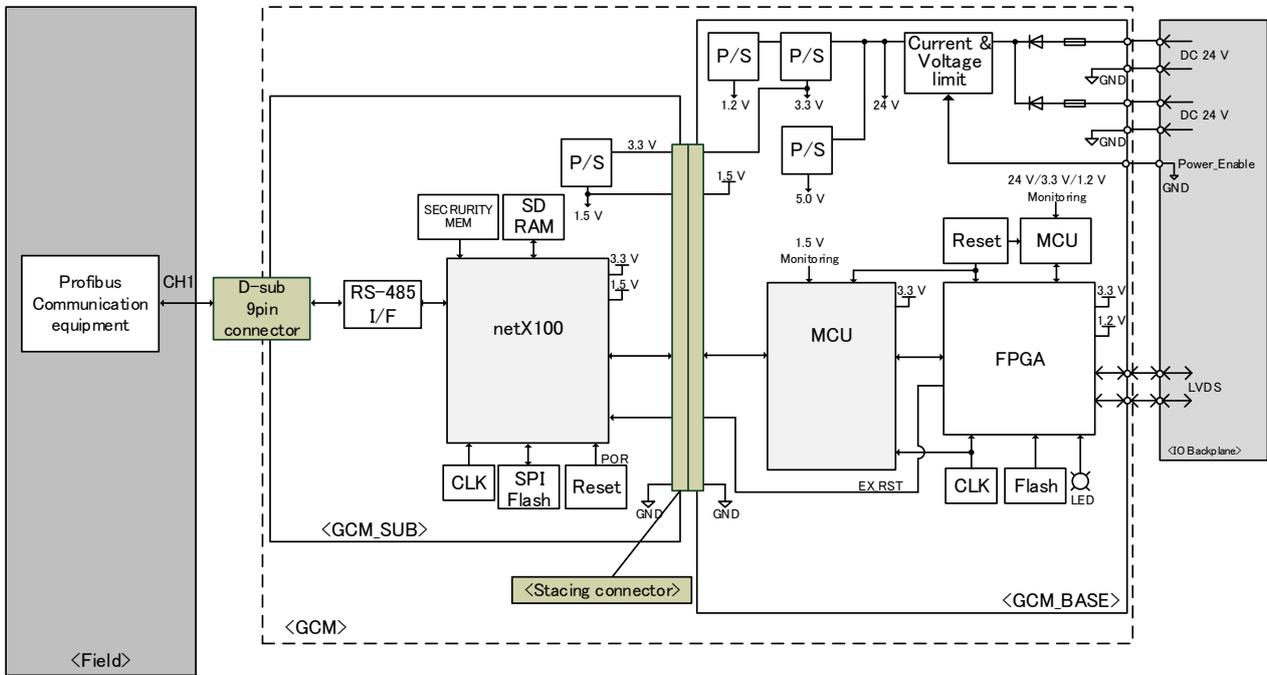
*³ To make this module redundant, use a single-correspondence backplane (LSIOB01/LSIOB01-2/LSIOB01-4).

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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