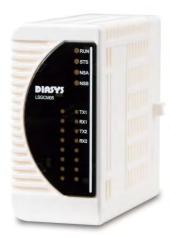


LSGCM05 CAN Communication module

LS communication CAN 2ch

■Summary



*Communication port : 2 (Individual isolation)

* Module ambient temperature : -5 to 60°C



LSGCM05 CAN Communication module

LS communication CAN 2ch

■Specifications

lT	EM	SPECIFICATION
	Number of channels	2 (Individual isolation)
Communication port	Communication speed	50K、125K、250K、500K、1Mbps *Compliant with ISO 11898 standard
	Communication size	Maximum transmit / receive total 16 Kbytes
	Communication 6/26	Standard CAN (Standard format only)
	Supported protocol	CANopen (Standard format only)
		J1939 (Extended format only)
	Number of registered commands	Event transmission command: 100 pcs / channel *1
		Periodic send command: 100 pcs / channel *1
		Receive command: 100 pcs / channel *1
		CANopen
		Transmit / receive NMT master message
		Sending / receiving Guarding request message
		Send / receive Heartbeat message
		Send / receive Emergency message
	Support command	Send / receive Sync message
	oupport communa	Transmit / receive Process data message
		J1939
		Address Claim function not supported (No dynamic network configuration change)
		Packet segmentation function not supported
		(Maximum data length of one message is 8 bytes)
		Supplement)Position the extended ID and specify it in the communication setting file
T	Duplication correspondence	Possible(Two units installed , Select data in CPU Application Logic)
Terminating resistance		Required for external line connection terminal block side DC500V
Dielectric voltage		
Communication with IOA	Communication method	LVDS
	Communication speed	100Mbps
		Power voltage check (24V, 3.3V, 1.2V)
		Clock abnormal check (FPGA-MCU for diagnosis , MCU for diagnosis -FPGA)
Self-diagnostic functions		Heartbeat check (FPGA-MCU for diagnosis, MCU for diagnosis -FPGA)
		CRC check (FPGA)
		Check communication setting file
		Communication check WDT manitaring (communication MCLI)
		WDT monitoring (communication MCU) Overvoltage protection
Protection	(Power supply protection)	Overcurrent protection
Indicator Insulation type	Status indication LED	4 : RUN(Run) / STS(Status) /NSA(Network status A) / NSB(Network status B)
	Communication LED	4 : TXD(CH0-1 TXD Status) /RXD(CH0-1 RXD Status)
	GOTHINGHICATOR LLD	iCoupler(Analog devices)*2
Hot swap		possible
Power supply		DC24V ±20% (The voltage supplied from the backplane)
ower suppry	T	(Operating) -5 to 60°C
Environmental conditions	Module ambient temperature	(Storage) -40 to 85°C
	Module ambient humidity	Less than 95%RH (No condensation)
Vibration Shock		3.5mm @ 5 Hz ~ 8.4 Hz
		1G @ 8.4 Hz ~ 150 Hz
		15G 11ms
Current consumption		Less than 150mA
·		
Weight		0.124kg
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 Depending on the system environment, adjustment such as slowing down the communication cycle is required.
- *2 iCoupler is an analog technology company's isolation technology.

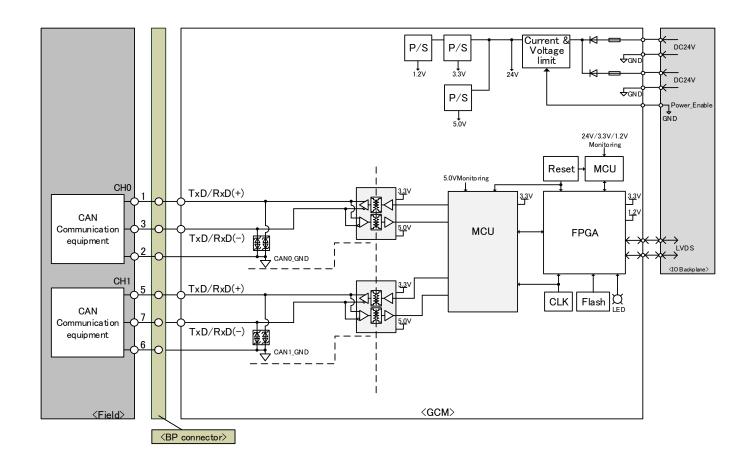
By combining high-speed CMOS and monolithic air core transformer, it has excellent performance characteristics.



LSGCM05 CAN Communication module

LS communication CAN 2ch

■Block diagram



P/S : Power supply CLK : Clock

FPGA : Field programmable gate array

LED Light emitting diode
MCU : Micro control unit
GND : Ground

CANX_ GND : Isolation ground

LVDS : Low Voltage Differential Signaling

: ESD protection diode

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

This catalog may not be distributed or reproduced in whole or in part without permission.

Please be aware that due to product improvements and modifications, the product description in this catalog may differ in certain respects from the actual product.

DIASYS Netmation/DIASYS Netmation4S is a registered trademark of Mitsubishi Hitachi Power Systems, Ltd.

The service names and product names of other companies described in this catalog are the trademarks or registered trademarks of each company.

