LSSCG01 Scanner Gateway module

Gigabit Ethernet 1000BASE-T Specification compliance Bridge unit for D-Ring (For optical communicatoin expansion)

■Summary

＊Major function　　　　　　　：　Giga-bit Ethernet-Optical communication bridge

＊Module ambient temperature　：　-5 to 60℃

DIASYS Netmation®

DIASYS Netmation4S®

Mitsubishi Power is a power solutions brand of Mitsubishi Heavy Industries.

MOVE THE WORLD FORW≫RD MITSUBISHI HEAVY INDUSTRIES GROUP

CGS-S7601-E-11 (2025.10.31)

SL : 1　ECT : N/A

LSSCG01　Scanner Gateway module

Gigabit Ethernet 1000BASE-T Specification compliance Bridge unit for D-Ring (For optical communicatoin expansion)

■Specifications

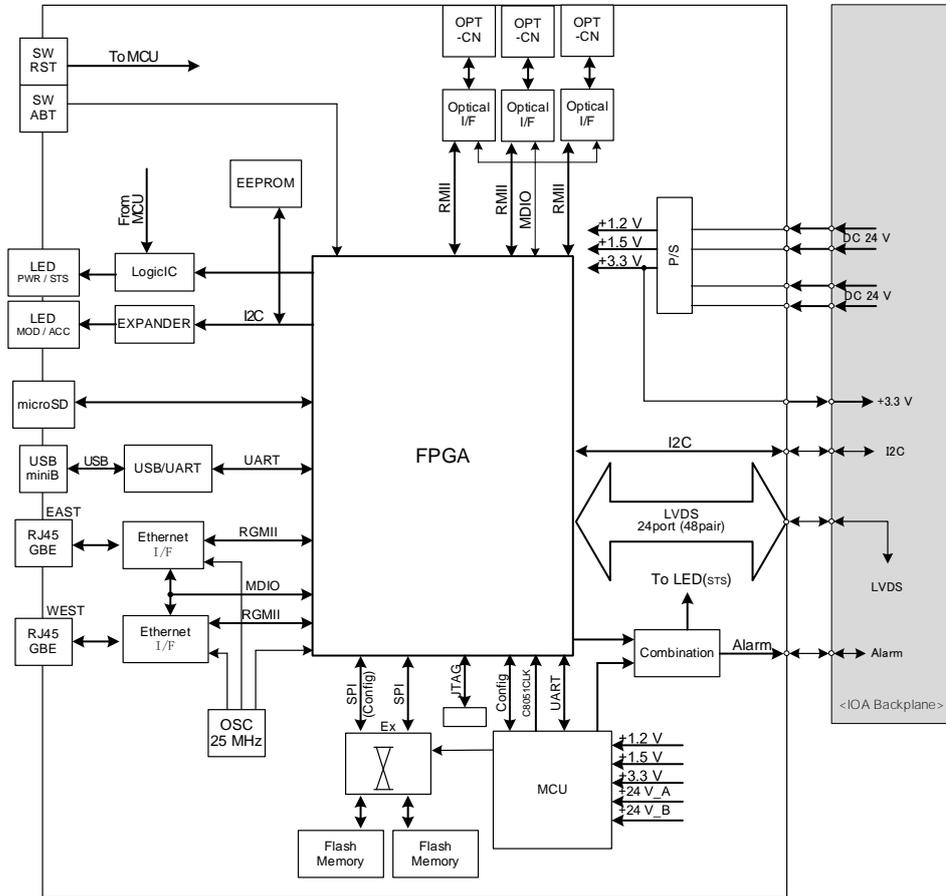| ITEM		SPECIFICATION	
Function		I/O module communication (LVDS)	
		D-Ring (Giga-bit Ethernet ring communication)	
		Optical communication interface for expansion (100 Mbps multimode communication)	
Number of D-Ring addressing node		Maximum 32 node	
EEPROM		2 kbit (For initial setting information of MAC address)	
Ethernet interface	For D-Ring	1000BASE-T	: 2
Optical communication interface	For optical communication expansion	100BASE-FX	: 3 Connector type: MT-RJ (No pins) Cable specification: multimode50/125 μ m or 62.5/125 μ m
User interface		Micro SD card　　　　　: 1 Control/standby switch　: 1 Reset switch　　　　　 : 1 USB mini-B　　　　　　: 1	
Controller		Spartan6 XC6SLX100	
I/O Communication	Communicaton method	LVDS	
	Communication speed	100 Mbps	
Self-diagnostic functions		Clock abnormal check CRC check (FPGA) Memory check Power voltage check Configuration check	
Data check method		CRC32	
Indicator		4: PWR(Power) / STS(Status) / MOD(Mode) / ACC(Access)	
Hot swap		Possible	
Power supply		DC 24 V ±20% (The voltage supplied from the backplane)	
Environmental conditions	Module ambient temperature	(Operating) -5 to 60℃ (Storage) -40 to 85℃	
	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		444 mA	
Weight		0.27 kg	
Dimensions		111 mm (D) x 117 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) ".

LSSCG01 Scanner Gateway module

Gigabit Ethernet 1000BASE-T Specification compliance Bridge unit for D-Ring (For optical communicatoin expansion)

■Block diagram

P/S	:	Power Supply
I2C	:	Inter-Integrated Circuit
OPT-CN	:	Optical connector
RJ45_GBE	:	RJ45 connector _ Giga bit Ethernet
RMII	:	Reduced Media Independent Interface
MDIO	:	Management Data Input/Output Bus
FPGA	:	Field Programmable Gate Array
MCU	:	Micro controller Unit
UART	:	Universal Asynchronous Receiver Transmitter
JTAG	:	Joint Test Action Group
SPI	:	Serial Peripheral Interface
Flash	:	Flash memory
Ex	:	Exchange device
CLK	:	Clock Oscillator
OSC	:	Oscillator
EEPROM	:	Electrically Erasable Programmable Read-Only Memory
SW_RST	:	Reset switch
SW_ABO	:	Abort switch
LED	:	Light Emitting Diode
PWR/STS	:	Power/Status
MOD/ACC	:	Mode/Access

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