

# LSIOS01-1 I/O scanner card

Gigabit Ether 1000BASE-T specification compliant

## ■ Summary



- \*Main function : GbE-LVDS communication bridge
- \*Operating ambient temperature range : -5 to 60°C
- \*User interfaces
  - Ethernet (1000BASE-T) : 2 in total
  - USB mini-B connector : 1 in total
  - Switches : 2 in total
    - Reset switch
    - Abort switch

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Gigabit Ether 1000BASE-T specification compliant

## ■ Specification

| ITEM                       |                            | SPECIFICATION  |
|----------------------------|----------------------------|--|
| Function                   |                            | LVDS input-output communication<br>Giga-bit Ethernet ring communication                                |
| Communication rate (LVDS)  |                            | 100 Mbps   |
| Number of addressing nodes |                            | Max 96 nodes   |
| EEPROM                     |                            | 2 kbit (For initial setting information of MAC address)  |
| Ethernet interface         |                            | 1000BASE-T : 2   |
| Serial interface           |                            | USB Serial (USB miniB connector) : 1   |
| User interface             |                            | Abort switch : 1<br>Reset switch : 1   |
| Controller                 |                            | Xilinx Spartan7  |
| Self diagnosis             |                            | Clock abnormal check<br>CRC check (FPGA)<br>Memory check<br>Power voltage check<br>Configuration check |
| Data check method          |                            | CRC32  |
| Indications                |                            | 4: Power / Status / Mode / Access  |
| Hot-swapping               |                            | Supported<br>(*Note that emergency stop signal processing must be handled by user circuitry)           |
| Rated voltage              |                            | DC 24 V $\pm$ 20% (Supplied from backplane)  |
| Environmental conditions   | Module ambient temperature | (Operating) -5 to 60°C<br>(Storage) -40 to 85°C  |
|                            | Module ambient humidity    | (Operating / Storage) Less than 95% RH (No condensation)   |
| Vibration                  |                            | 3.5 mm at 5 to 8.4 Hz, 1 G at 8.4 to 150 Hz  |
| Shock                      |                            | 15 G 11 ms   |
| Current consumption        |                            | 244 mA   |
| Weight                     |                            | 270 g or less  |
| Size                       |                            | 112 mm (D) x 177.8 mm (H) x 25.8 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)”.

