



## PISO-MN200

## PISO-MN200T/PISO-MN200EC

PCI Bus, Dual-line Motionnet Master Card  
(For Distributed Motion & I/O Control)

### Features

- Maximum Communication Speed: 20 Mbps
- Distributed motion control up to 128 axes
- Distributed I/O points up to 4096 points
- Easy connection using RJ-45 phone jack, removable terminal block, or Mini-Clamp connector
- Parallel I/O Ports: 8 Input and 4 Output channels
- Optional quadrature encoder input for linear scale or manual pulse generator input



### Introduction

The PISO-MN200(T/EC) is a PCI Master card that provides two Motionnet serial communication lines for distributed motion and I/O control in machine automation applications. The Master card can be used to connect up to 128 Slave modules (64 x 2 lines). If one of the Motionnet lines is only used for I/O control, it can send/receive signals to/from 2048 points on 64 local devices within 0.97 msec. When it is used to control motors, it can control up to 64 axes, which can be used to execute continuous positioning motion, zero return and even multi-axis interpolation operations. In addition to serial communication, the PISO-MN200(T/EC) is also equipped with parallel I/O ports (8 input channels and 4 output channels) for rapid and instinctive I/O control.

### Specifications

| Model           | PISO-MN200                                        | PISO-MN200T | PISO-MN200EC |
|-----------------|---------------------------------------------------|-------------|--------------|
| Software        |                                                   |             |              |
| OS Support      | Windows 7/10 32/64-bit,<br>Windows XP/2000 32-bit |             |              |
| Development     | VC/VB/BCB                                         |             |              |
| Utility         | EzGo Utility                                      |             |              |
| Hardware        |                                                   |             |              |
| Connector       | HD D-Sub 15-pin x 1                               |             |              |
| LED Indicators  |                                                   |             |              |
| Status          | Connection (green), Communication Error (red)     |             |              |
| General         |                                                   |             |              |
| Interrupts      | Input Change of State, Communication Error        |             |              |
| Digital Input   |                                                   |             |              |
| Channels        | 8                                                 |             |              |
| Type            | 12-24 V, NPN or PNP                               |             |              |
| Isolation       | 3000 Vrms                                         |             |              |
| Input Impedance | 4.7 KΩ                                            |             |              |
| Digital Output  |                                                   |             |              |
| Channels        | 4                                                 |             |              |

| Model                    | PISO-MN200                                                                                                                | PISO-MN200T          | PISO-MN200EC             |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------|--------------------------|
| Type                     | NPN or PNP                                                                                                                |                      |                          |
| Isolation                | 3000 Vrms                                                                                                                 |                      |                          |
| PC Bus                   |                                                                                                                           |                      |                          |
| Type                     | 32-bit/33 MHz universal PCI-Bus                                                                                           |                      |                          |
| Motionnet                |                                                                                                                           |                      |                          |
| Communication Connectors | RJ-45 x 2                                                                                                                 | 5-pin terminal block | Mini-Clamp connector x 2 |
| Transfer Speed           | 2.5, 5, 10, 20 Mbps (Software controlled)                                                                                 |                      |                          |
| Length                   | Max. 100 M (20 Mbps; 32 Slave modules)<br>Max. 50 M (20 Mbps; 64 Slave modules)<br>Max. 100 M (10 Mbps; 64 Slave modules) |                      |                          |
| Protocol                 | Motionnet (Half-duplex RS-485)                                                                                            |                      |                          |
| Power                    |                                                                                                                           |                      |                          |
| Consumption              | +5 V @ 500 mA                                                                                                             |                      |                          |
| Environment              |                                                                                                                           |                      |                          |
| Operating Temperature    | 0 ~ +60 °C                                                                                                                |                      |                          |
| Storage Temperature      | -20 ~ +80 °C                                                                                                              |                      |                          |
| Humidity                 | 5~ 85%; non-condensing                                                                                                    |                      |                          |

### Ordering Information

|                        |                                                                           |
|------------------------|---------------------------------------------------------------------------|
| <b>PISO-MN200 CR</b>   | PCI Bus, Dual-line Motionnet Master Card with RJ-45 (RoHS)                |
| <b>PISO-MN200T CR</b>  | PCI Bus, Dual-line Motionnet Master Card with Terminal Block (RoHS)       |
| <b>PISO-MN200EC CR</b> | PCI Bus, Dual-Line Motionnet Master Card with Mini-Clamp connector (RoHS) |

### Related Products

|                                 |                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------|
| MN-SERVO-xxx(-EC) Series CR     | Distributed Motionnet Single-axis Motion Control Modules (-MJ3 / -PA4 / -YSV / -DAA) (RoHS) |
| MN-2091U(-T) CR                 | Distributed Motionnet Single-axis Universal Motion Control Module (RoHS)                    |
| MN-MP4U-DIN CR                  | Distributed Motionnet Four-axis Universal Motion Control Module (RoHS)                      |
| MN-3254(T) CR<br>MN-D622-DIN CR | Distributed Motionnet 16-ch Isolated DI,<br>16-ch Isolated DO Module (RoHS)                 |

|                                 |                                                        |
|---------------------------------|--------------------------------------------------------|
| MN-3253(T) CR<br>MN-D640-DIN CR | Distributed Motionnet 32-ch Isolated DI Module (RoHS)  |
| MN-3257(T) CR<br>MN-D604-DIN CR | Distributed Motionnet 32-ch Isolated DO Module (RoHS)  |
| MN-AD8-DIN CR                   | Distributed Motionnet 8-ch Analog Input Module (RoHS)  |
| MN-DA2-DIN CR                   | Distributed Motionnet 2-ch Analog Output Module (RoHS) |
| MN-HUB4(EC) CR                  | Distributed Motionnet 4 Port Hub Module (RoHS)         |