



## PISO-MN200/PISO-MN200T/PISO-MN200EC

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

### 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
<b>General</b>			
Bus	32-bit/33 MHz universal PCI-Bus		
Communication Speed	2.5, 5, 10, 20 Mbps (Software controlled)		
Interface	Half-duplex RS-485		
Communication Length	Max. 100 M (20 Mbps; 32 Slave modules) Max. 50 M (20 Mbps; 64 Slave modules) Max. 100 M (10 Mbps; 64 Slave modules)		
Communication Connector	PISO-MN200: RJ-45 x 2 PISO-MN200T: 5-pin terminal block PISO-MN200EC: Mini-Clamp connector x 2		
I/O Connector	HD D-Sub 15-pin x 1		
Parallel I/O	Digital input: 8-ch Photo-coupler Isolated (12-24 V, NPN or PNP) Digital output: 4-ch Photo-coupler Isolated (NPN or PNP)		
LED Diagnostics	Connection (green) Communication Error (red)		
Interrupts	Input Change of State, Communication Error		
<b>Environment</b>			
Operating Temp.	0 ~ +60 °C		
Storage Temp.	20 ~ +80 °C		
Operating Humidity	10 ~ 85%; non-condensing		
Storage Humidity	5~ 95%; non-condensing		

### 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



### Software Support

Windows Driver/DLL/Lib	Windows 7/10 32/64-bit Windows XP/2000 32-bit
Programming Tools	VC/VB/BCB

### 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 MN-D622-DIN CR	Distributed Motionnet 16-ch Isolated DI 16-ch Isolated DO Module (RoHS)
MN-3253(T) CR MN-D640-DIN CR	Distributed Motionnet 32-ch Isolated DI Module (RoHS)
MN-3257(T) CR 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)