



Bridging the Gap between Real World and Computer



EMD8204/8



Software key function

Ethernet Module Digital I/O

Features

- Over-voltage and over-current protection on digital input
- Various IO combinations :
4 photo isolated input and 4 relay output (EMD8204)
8 photo isolated input and 8 relay output (EMD8208)
- Input counter function
- IP re-assignment
- UDP and TCP/MODBUS protocol
- Peer to peer response time < 2ms
- Standalone function : step sequence control instruction, device to device communication
- Software key function

Introduction

EMD8204/8 is an Ethernet digital I/O module. All the photo isolated input provide with different options, 4 Photo isolated inputs and 4 relay outputs, 8 Photo isolated inputs and 8 relay outputs or 8 photo isolated inputs and 8 Transistor outputs.

The module also provide the software counter function for any input up to 100Hz(5ms) counting speed.

It can work as a stand alone web server to provide control directly by web page. It also provide password to prevent un-authorized change.

To work as a standalone controller, users can configure the step sequence by the demo program or via their application and download the step sequences to the module. It will store on the non-volatile memory and run the programmed steps while standalone mode is enabled.

DII is provided for WinXP, Win7 and later or LINUX platform and sample programs come with VB source code.

Applications

- For remote contact sensing
window or door open/close signal sensing
alarm signal sensing
fire detector signal sensing
- For remote contact make or break control
window or door open close control
light control
Power on/off control

Ordering Information

- **EMD8204** : Ethernet I/O module, 4 photo isolated input
4 Relay output
- **EMD8208** : Ethernet I/O module, 8 photo isolated input
8 Relay output
- **JD52000** : 110/220Vac to 24Vdc @1.5A power supply
- **JS52026** : 110/220Vac to 24Vdc @0.75A power adapter

Specifications

Digital Input

- Photo isolated input : 4 (EMD8204)
8 (EMD8208)
- Logic high level : 3.15V(min)
- Logic low level : 1.35V(max)
- Over-voltage protection : 60Vdc(max)
- Over-current protection : 50mA(max)
- Counter input : any digital input
- Counter speed : 100Hz (max) square wave

Digital Output

- Relay output points : 4 (EMD8204)
8 (EMD8208)
- Relay capacity : 3A@250Vac, 3A @30Vdc

Ethernet

- 10/100M auto switch x 2 port
- WDT : 1~1000sec based on 0.1 sec time base for communication discontinuity detect
- Response time 2ms

Main Card General

- Power requirement : 24Vdc
- Operation Temperature : 0 °C ~ +70 °C
- Storage Temperature : -20 °C ~ +80 °C
- Operation Humidity : 5~95% RH, non-condensing
- Dimensions : 115.4(D)*136(W)*34(H)mm
4.6(D)*5.4(W)*1.4(H)in

Software Support

► PC OS Support

WinXP, Win7 and later or Linux O.S.
Embedded XP, Win CE (at request)

► Library

DLLs, VI library

► Develop Software

Visual C++, Visual Basic,
Borland C/C++ Builder, LabVIEW etc

► Example Source Code

Visual Basic