



Bridging the Gap between Real World and Computer

EMC8432/85



Software key function



Ethernet Module to RS232/422/485 Converter

Features

- ▶ Over-voltage protection on digital input
- ▶ Various IO combinations : 8-bit configurable I/O's, any bit can be input or output
- ▶ High drive capacity on digital output
- ▶ UDP and TCP/MODBUS protocol
- ▶ **Isolated RS422/485 to Ethernet (EMC8485)**
- ▶ **RS232 to Ethernet (EMC8432)**
- ▶ Baudrate up to 921.6K
- ▶ Wide power range
- ▶ 10/100M auto detection
- ▶ Standalone function : step sequence control in struction
- ▶ Peer to peer response time < 2ms
- ▶ 8 enhanced TTL I/O

Introduction

EMC8432 is an ethernet communication module for RS232, while EMC8485 for RS422/RS485.

The EMC8485 has isolated differential signals for better long distance connection.

All The module has 8-bit I/O's, any I/O can be as TTL level input or enhanced drive capacity output [500mA(peak),45Vdc(max)].

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

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

Applications

- ▶ For RS232/422/485 to ethernet conversion
- ▶ For ethernet to RS232/422/485 conversion

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

Ordering Information

- ▶ **EMC8432** : Ethernet I/O module to RS232 (8 TTL IO) Module (include M23406)
- ▶ **M23406** : 9-pin D type male cable 10cm
- ▶ **EMC8485** : Ethernet I/O module to RS422/485 (8 TTL IO) Module
- ▶ **JD52000** : 110/220Vac to 24Vdc @1.5A power supply
- ▶ **JS52026** : 110/220Vac to 24Vdc @0.75A power adapter

Specifications

EMC8432

- ▶ Baudrate : 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 921600
- ▶ Data Bits : 5, 6, 7, 8
- ▶ Stop Bits : 1, 1.5
- ▶ Parity : None, Even, Odd

EMC8485

- ▶ Isolation : magnetic coupler
- ▶ Baudrate : 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 921600
- ▶ Data Bits : 5, 6, 7, 8
- ▶ Stop Bits : 1, 1.5
- ▶ Parity : None, Even, Odd

Digital Input

- ▶ Input points : max 8(Configurable)
- ▶ Logic high level : 3.15V(min)
- ▶ Logic low level : 1.35V(max)
- ▶ Over-voltage protection : 60Vdc(max)
- ▶ Over-current protection : 50mA(max)

Digital Output

- ▶ Transistor output : max 8(Configurable)
- ▶ Transistor capacity : 50mA, 45Vdc(max)
- ▶ Standalone function : 32 steps control in struction

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 : 12Vdc ~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