EMA-8308/A/D/DA *New*

Ethernet Module Analog I/O

Software key function

Features

➤ **Over-voltage protection on analog input**
➤ **Over-load protection on analog output**
➤ **24-bit accuracy**
➤ **10 samples per second**
➤ **-10V~ +10V output**
➤ **IP re-assignment**
➤ **Direct web page control**
➤ **10/100M auto detection**

   EMA-8308 / EMA-8308A
➤ **Differential or single end analog input**
➤ **Multiple analog input range :**
   0~5V, 0~10V, 4~20mA, 0~20mA
   EMA-8308D / EMA-8308DA
➤ **High common mode voltage up to 10V**
➤ **Multiple analog input range :**
   -5~ +5V, -10~ +10V, 4~20mA,0~20mA

Introduction

EMA-8308 is an Ethernet analog I/O module.

Some models have 24-bit unipolar analog input which can be wired as single end or differential input. The other model have 24-bit bipolar analog input but only differential input.

As the models have 2 channel analog output with optional 12-bit or 16-bit bipolar output.

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. Dll is provided for WIN 2000/XP, WIN 7 and later or LINUX platform and sample programs come with VB source code.

Applications

➤For remote analog voltage sensing
  – sensor signal sensing
  – analog voltage monitoring
➤For remote voltage output
  – speed control
  – light dimmer control
  – temperature control

Software Support

➤**PC OS Support**
  Windows 2000/XP, WIN 7 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

➤**EMA-8308 :** Ethernet module, 24-bit uni-polar 8 differential/16 single end analog input, 2 12-bit analog output
➤**EMA-8308A :** Ethernet module, 24-bit uni-polar 8 differential /16 single end analog input, 2 16-bit analog output
➤**EMA-8308D :** Ethernet module, 24-bit bi-polar 8 differential analog input, 2 12-bit analog output
➤**EMA-8308DA:** Ethernet module, 24-bit bi-polar 8 differential analog input, 2 16-bit analog output
➤**JD52000 :** 110/220Vac to 24Vdc @1.5A power supply
➤**JS52026 :** 110/220Vac to 24Vdc @0.75A power adapter

Specifications

Analog Input

➤Input Channels : EMA-8308, EMA-8308A : 16 channels
              unipolar single end or differential
              EMA-8308D : 8 channels bipolar
              EMA-8308DA : 8 channels differential
➤Resolution : 24-bit
➤Offset Error : 2.5uV(typ), 5uV(max)
➤Offset Error Drift : 20nV / °C
➤Input Common Mode Rejection : 120dB
➤Sample Rate : 10 samples/second
➤Input Type : differential or single end (port programmable)
➤Input Range : EMA-8308, EMA-8308A :
           0~5V(23-bit), 0~10V(24-bit), 0~20mA(23-bit),
           4~20mA(22-bit)
           EMA-8308D, EMA-8308DA :
           -5V ~ +5V(23-bit), -10V ~ +10V(24-bit),
           0~20mA(23-bit), 4~20mA(22-bit)
➤Input Filter : 7.03K, 3.52K, 1.76K, 879Hz
➤Over-voltage Protection : 20Vdc(max)

Analog Output

➤Output Points : 2 channels
➤Resolution : 12-bit (EMA-8308, EMA-8308D)
           16-bit (EMA-8308A, EMA-8308DA)
➤Output Range : -10Vdc ~ +10Vdc
➤Over Load Protection : 50ma(peak)

Ethernet

➤10/100M auto switch x 2 port

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 : 107.6(D)*135.8(W)*34(H)mm
           4.3(D)*5.4(W)*1.4(H)in