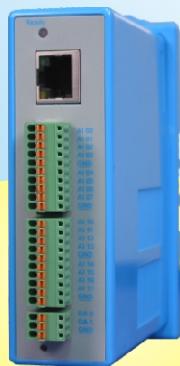




Bridging the Gap between Real World and Computer



EMA7308/A/D/DA RoHS New



 [Software key function](#)

Introduction

EMA7308 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-anthorized change.

Applications

- ▶ For remote analog voltage sensing
 - sensor signal sensing
 - analog voltage monitoring
- ▶ For remote voltage output
 - speed control
 - light dimmer control
 - temperature control

Ordering Information

- ▶ **EMA7308** : Ethernet module, 24bit uni-polar 8 differential/16 single end analog input, 2 12bit analog output
- ▶ **EMA7308A** : Ethernet module, 24bit uni-polar 8 differential /16 single end analog input, 2 16bit analog output
- ▶ **EMA7308D** : Ethernet module, 24bit bi-polar 8 differential analog input, 2 12bit analog output
- ▶ **EMA7308DA**: Ethernet module, 24bit bi-polar 8 differential analog input, 2 16bit analog output
- ▶ **JD52000** : 110/220Vac to 24Vdc @1.5A power supply
- ▶ **JD52026** : 110/220Vac to 24Vdc @0.75A power adapter

Ethernet Module Analog I/O

Features

- ▶ Over-voltage protection on analog input
- ▶ Over-load protection on analog output
- ▶ High common mode voltage up to 10V (EMA7308D,EMA7308DA)
- ▶ 24 bit accuracy
- ▶ 10 samples per second
- ▶ Differential or single end analog input(EMA7308,EMA7308A)
- ▶ Multiple analog input range:
0~5V, 0~10V, 4~20mA, 0~20mA (EMA7308,EMA7308A)
-5~+5V, -10~+10V, 4~20mA, 0~20mA (EMA7308D,EMA7308DA)
- ▶ -10V ~ +10V output
- ▶ IP re-assignment
- ▶ Direct web page control
- ▶ 10/100M auto detection

Specifications

Analog Input

- ▶ Input Channels : unipolar for EMA7308,EMA7308A
single end 16 channels or differential 8 channels
Bipolar for EMA7308D, EMA7308DA
differential 8 channels
- ▶ 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 : for EMA7308, EMA7308A
0~5V(23bit), 0~10V(24bit), 0~20mA(23bit), 4~20mA(22bit)
for EMA7308D, EMA7308DA
-5V~ +5V(23bit), -10V~ +10V(24bit), 0~20mA(23bit),
4~20mA(22bit)
- ▶ Input Filter : 7.03K, 3.52K, 1.76K, 879Hz
- ▶ Over-voltage Protection : 20Vdc(max)

Analog Output

- ▶ Output Points : 2 channels
- ▶ Resolution : 12-bit (EMA7308, EMA7308D)
16-bit (EMA7308A, EMA7308DA)
- ▶ Output Range : -10V~ +10Vdc
- ▶ Over Load Protection : 50ma(peak)

Ethernet

- ▶ 10/100M auto switch

General

- ▶ Power Requirement : 12Vdc ~24Vdc
- ▶ Operation Temperature : 0 to +70 degree C
- ▶ Storage Temperature : -20 to +80 degree C
- ▶ Operation Humidity : 5~95% RH, non-condensing
- ▶ Dimensions : 89(D)*110(W)*34(H) mm
3.5(D)*4.33(W)*1.39(H)in