**EDAM-9051(A)**

- **Features**
  - Support Modbus/TCP, TCP/IP, UDP, ICMP, ARP
  - Ethernet 10/100 Based-T Communication
  - Support 2 Isolated digital output channels (NPN).
  - Provide Pulsed/delay Output Mode
  - Support 12 Isolated digital Input Channels
  - 2 counter (4.5 KHz) input channels
  - Support **Dry Contact** Inputs
  - Fully Photo-Isolation 3750Vrms
  - Status LED indicator

- **Specifications**
  - **Interface:** Ethernet 10/100 Based-T communication.
  - **COMM.:** Support TCP/IP, UDP, ICMP, ARP
  - **Protocol:** ASCII Format, Modbus/TCP
  - **Isolation Digital Input:**
    - Channel: 12 channels (DI0~DI11)
    - Input Level: Logic level status can be inverted via ASCII/Modbus command.
    - Input type: Isolated single ended with comm. source.
    - Dry Contact:
      - Logic level 1 (active): Close to GND
      - Logic level 0 (inactive): Open
    - Input Impedance: 2K ohm
    - Counter input: 500Hz counter input (32-bit + 1-bit overflow)
    - Optical Isolation Voltage: 3750Vrms
  - **Counter:**
    - Channel: 2 (C0=DI12, C1=DI13)
    - Input level:
      - Logic level 1 (active): +5V to 30VDC max
      - Logic level 0 (inactive): +2 Vac max
    - Maximum Count: 4,294,967,285 (32 bit)
  - **Isolation Digital Output:**
    - Digital Output: isolated Open collector (NPN).
    - Channel: 2 channels (DO0~DO1)
    - Output logical level: Logic level status can be inverted via ASCII/Modbus command.
    - Open Collector to +5 ~ 30V / 500 mA max load.
    - Optical Isolation Voltage: 3750Vrms
  - **Display:** Status LED indicator
  - **Power Requirement:**
    - Power Consumption: 1.8 W (Typical)
    - Power Input: +10 ~ +30 VDC
    - Humidity: 5 ~ 95% RH, non-condensing

- **Order information**
  - EDAM-9051(A):
    - 12 DI channels, 2 DO channels and 2 channels counter module.
  - **Flexible OEM/ODM design**

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**Block Diagram**

**Wire Connection**

<table>
<thead>
<tr>
<th>Dry Contact</th>
<th>Counter Input</th>
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<tbody>
<tr>
<td><img src="image1.png" alt="Dry Contact" /></td>
<td><img src="image2.png" alt="Counter Input" /></td>
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