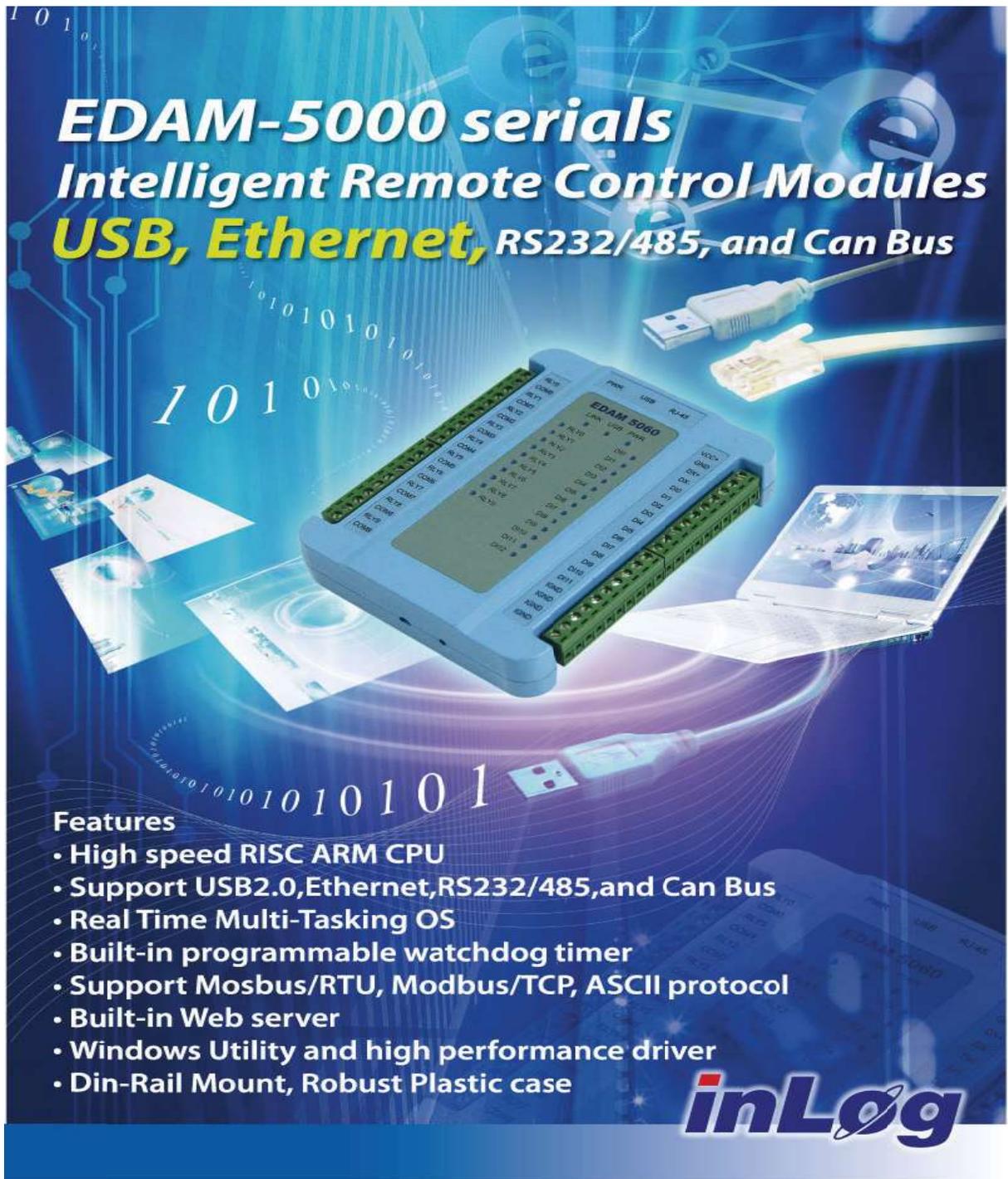


# EDAM-5000 Series

Ethernet/USB/RS485 Remote Control Modules



The advertisement features a central image of the EDAM-5000 module, a blue DIN-rail mounted device with a green terminal block and a USB port. The background is a blue and purple digital-themed graphic with binary code (0s and 1s) and glowing lines. A laptop is shown in the lower right, and a USB cable is visible in the upper right. The text is overlaid on the image in various colors and fonts.

## **EDAM-5000 series** **Intelligent Remote Control Modules** **USB, Ethernet, RS232/485, and Can Bus**

**Features**

- High speed RISC ARM CPU
- Support USB2.0, Ethernet, RS232/485, and Can Bus
- Real Time Multi-Tasking OS
- Built-in programmable watchdog timer
- Support Mosbus/RTU, Modbus/TCP, ASCII protocol
- Built-in Web server
- Windows Utility and high performance driver
- Din-Rail Mount, Robust Plastic case

**inLog**

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# EDAM-5015

12-ch RTD Input Module



## Features

- ◆ Protocol USB2.0 TCP/IP, MODBUS RTU, MODBUS TCP ASCII Command
- ◆ Support USB 2.0, 10/100 Ethernet, RS485/232C, CAN(Optional)
- ◆ Support PT100, PT1000, Balco 500, NI604, NI1000 RTD Types
- ◆ Support Isolated Input Channels
- ◆ Fully Photo-Isolation 3750Vrms
- ◆ Wide Supply Voltages (10~30V)
- ◆ Built-in TVS/ESD Protection
- ◆ Burn-Out Auto Detection

## Specifications

### Interface:

Communication	USB 2.0, 10/100 Ethernet, RS485/232C, CAN (optional)
Protocol	TCP, UDP, DHCP, ARP, MODBUS RTU, MODBUS TCP ASCII Command
LED Indication	LED for Power, USB and Ethernet link status
Isolation Voltage	3000VDC

Isolation Voltage	2000V
Sampling Rate	100 Samples / Second
Input Impedance	10MΩ
Accuracy	±0.15% or better
Zero Drift	±20uV/ °C
Span Drift	25 ppm/ °C
CMRR	50/60 Hz: 150dB
NMR	50/60 Hz: 100dB
Burn-Out	Wire burn-out auto detection
Over Voltage Protection	±60V

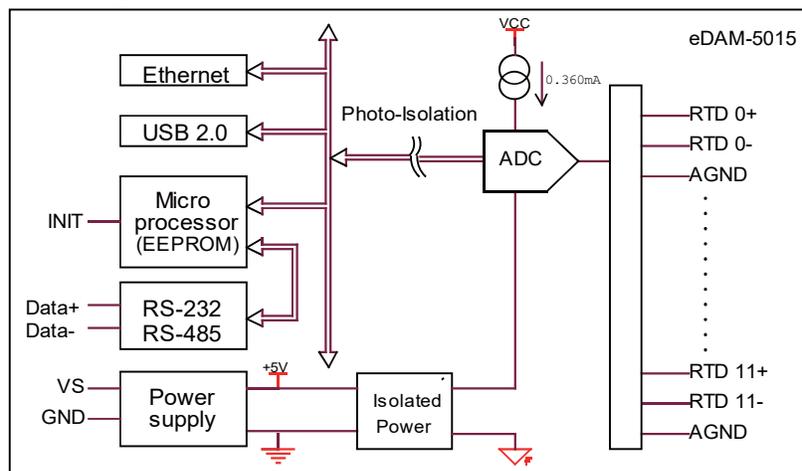
### Analog Input:

Effective Resolution	16-Bit
Input Channels	12 Channels RTD input (2-wires, 3-wires, 4-wires)
Input Type	PT100, PT1000, Balco 500, NI RTD PT100 (-50°C~150°C /0°C~100 °C, 0~200 °C, 0~400°C, -200°C~200°C, PT1000 (-40°C~160°C) Balco 500(-30°C~120°C) Ni604 (-80°C~100°C) Ni1000 (-0°C~100°C)

### Power Requirement :

Consumption	1.5W/ Typical, 2W/max
Power Input	USB powered (400mA max.) or external unregulated +10~+30VDC
Humidity	5 ~ 95% RH, non-condensing

### Block Diagram



# EDAM-5017

16-ch Analog Input Module with 2-ch  
Isolated DI and 1-ch DO



## Features

- ◆ Protocol USB2.0 TCP/IP, MODBUS RTU, MODBUS TCP ASCII Command
- ◆ Support USB 2.0, 10/100 Ethernet, RS485/232C, CAN(Optional)
- ◆ Fully Photo-Isolation 3750Vrms
- ◆ Wide Supply Voltages (10~30V)

## Specifications

### Interface:

Communication	USB 2.0, 10/100 Ethernet, RS485/232C, CAN (optional)
Protocol	TCP, UDP, DHCP, ARP, MODBUS RTU, MODBUS TCP ASCII Command
LED Indication	LED for Power, USB, Ethernet and 32 LEDs as Digital indicators
Isolation Voltage	3000VDC

### Analog Input:

Effective Resolution	16-bit
Input Channels	16 channels Analog input
Input Type	Voltage, Current
Input Range	$\pm 10V, \pm 5V, \pm 2.5V, \pm 1V, \pm 500mV, \pm 150mV, 0\sim 20mA, 4\sim 20mA$
Sampling Rate	10 Samples / Second
Input Impedance	10M $\Omega$
Accuracy	$\pm 0.15\%$ or better
Zero Drift	$\pm 20\mu V/^\circ C$
Span Drift	25 ppm/ $^\circ C$

### Digital Input:

Input Channel	2 channels
Input Type	Voltage or Switch On/Off
Input Impedance	Logic Low : $0 < V_{in} < 3V_{dc}$ Logic High : $5V < V_{in} < 24V_{dc}$
Isolation Voltage	2000V

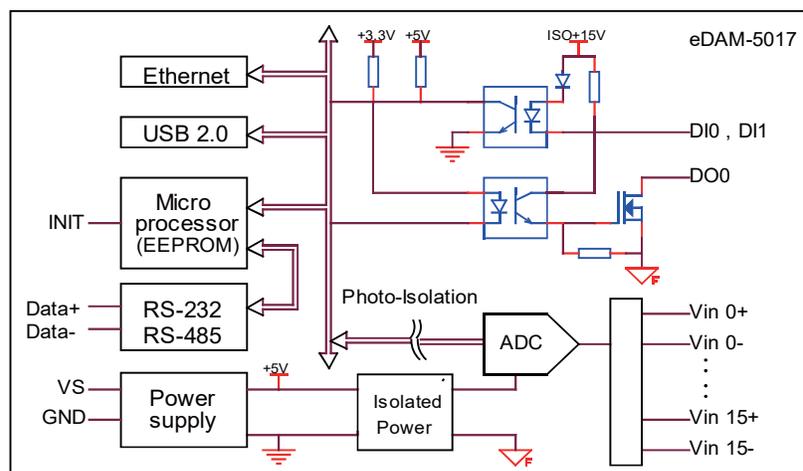
### Digital Output:

Output Channel	1 channel
Output Type	Open collect to 30Vdc/3A(max)
Isolation Voltage	2000V

### Power requirement :

Consumption	1.5W/ Typical, 2W/max
Power Input	USB powered (400mA max.) or external unregulated +10 ~ +30VDC
Humidity	5 ~ 95% RH, non-condensing

## Block Diagram



# EDAM-5019

16-ch Thermocouple Input Module with 2-ch Isolated DI and 1-ch DO



## Features

- ◆ Protocol USB2.0 TCP/IP, MODBUS RTU, MODBUS TCP ASCII Command
- ◆ Support USB 2.0, 10/100 Ethernet, RS485/232C, CAN(Optional)
- ◆ Support Thermocouple J, K, T, R, S, E, B, N, C Type
- ◆ Support Isolated Input Channels
- ◆ Fully Photo-Isolation 3750Vrms
- ◆ Wide Supply Voltages (10~30V)
- ◆ Built-in TVS/ESD Protection
- ◆ Burn-Out Auto Detection

## Specifications

### Interface:

Communication	USB 2.0, 10/100 Ethernet, RS485/232C, CAN (Optional)
Protocol	TCP, UDP, DHCP, ARP, MODBUS RTU, MODBUS TCP ASCII Command
LED Indication	LED for Power , USB, Ethernet link status
Isolation Voltage	3000VDC

### Analog Input:

Effective Resolution	16-bit
Input Channels	16 Channels Analog input
Input Type	Voltage, Current, Thermocouple
Input Range	$\pm 150\text{mV}$ , $\pm 500\text{mV}$ , $\pm 1\text{V}$ , $\pm 2.5\text{V}$ , $\pm 20\text{mA}$
Thermocouple Type	J, K, T, R, S, E, B
Sampling Rate	10 Samples / Second
Input Impedance	10M $\Omega$
Accuracy	$\pm 0.15\%$ or better
Zero Drift	$\pm 20\mu\text{V}/^\circ\text{C}$
Span Drift	25 ppm/ $^\circ\text{C}$

### Digital Input:

Input Channel	2 Channels
Input Type	Voltage or Switch On/Off
Input Impedance	Logic Low : $0 < V_{in} < 3\text{Vdc}$ Logic High : $5\text{V} < V_{in} < 24\text{Vdc}$
Isolation Voltage	2000V

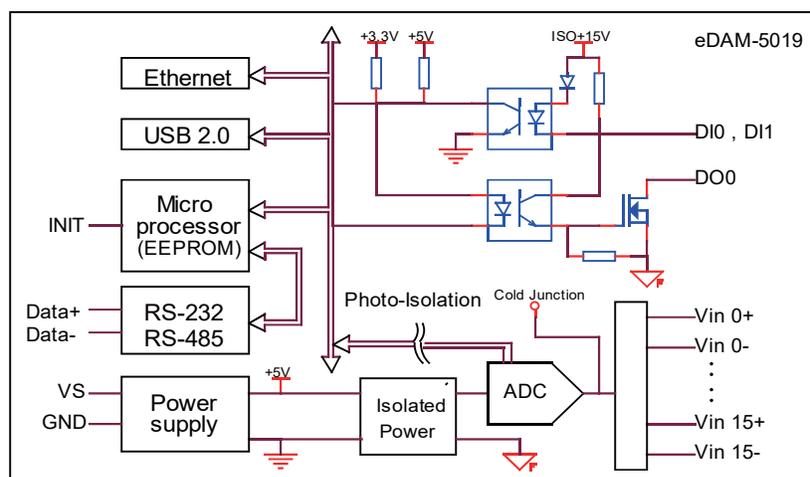
### Digital Output:

Output Channel	1 Channel
Output Type	Open collect to 30Vdc/3A(max)
Isolation Voltage	2000V

### Power Requirement :

Consumption	1.5W/ Typical, 2W/max
Power Input	USB powered (400mA max.) or external unregulated +10 ~ +30VDC
Humidity	5 ~ 95% RH, non-condensing

## Block Diagram



# EDAM-5028

8-ch MOSFET Output and 24-ch Isolated Digital Input Module



## Features

- ◆ Support USB 2.0, 10/100 Ethernet, RS485/232C, CAN(optional)
- ◆ Protocol USB2.0 TCP/IP, MODBUS RTU, MODBUS TCP ASCII Command
- ◆ Support Isolated Input Channels
- ◆ Fully Photo-Isolation 3750Vrms
- ◆ Wide Supply Voltages (10~30V)

## Specifications

### Interface:

Communication	USB 2.0, 10/100 Ethernet, RS485/232C, CAN (Optional)
Protocol	TCP, UDP, DHCP, ARP, MODBUS RTU, MODBUS TCP ASCII Command
LED Indication	LED for Power and link status
Isolation Voltage	3000VDC

### Power Requirement :

Consumption	1.5W/ Typical, 2W/max
Power Input	USB powered (400mA max.) or external unregulated +10 ~ +30VDC
Humidity	5 ~ 95% RH, non-condensing

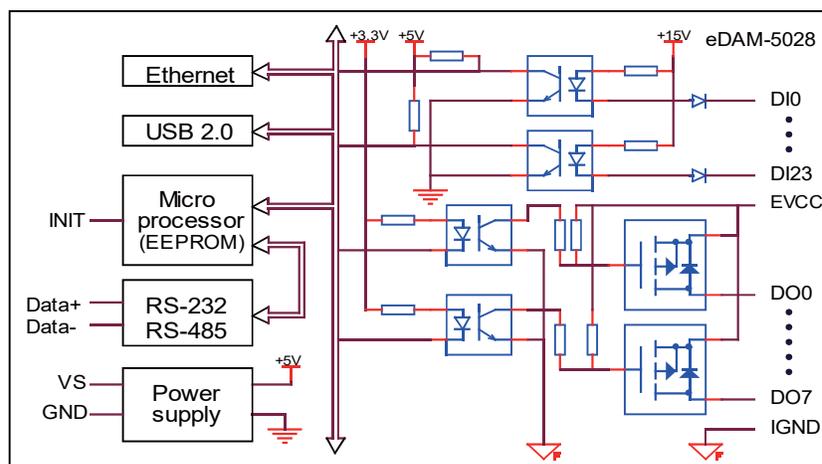
### Digital Input:

Input Channels	24 Channels
Input Type	Voltage or Switch On/Off
	Logic Low for 3Vdc maximum, Logic High for 5Vdc minimums
Isolation Voltage	2000V

### Digital Output:

Output Channel	8 Channels
Output Type	Source Output up to 30Vdc/3A(max)
Isolation Voltage	2000V

## Block Diagram



# EDAM-5029

16-ch Isolated MOSFET Output and 16-ch Isolated Digital Input Module



## Features

- ◆ Support USB 2.0, 10/100 Ethernet, RS485/232C, CAN(Optional)
- ◆ Protocol USB2.0 TCP/IP, MODBUS RTU, MODBUS TCP ASCII Command
- ◆ Support Isolated Input Channels
- ◆ Fully Photo-Isolation 3750Vrms
- ◆ Wide Supply Voltages (10~30V)

## Specifications

### Interface:

Communication	USB 2.0, 10/100 Ethernet, RS485/232C, CAN (Optional)
Protocol	TCP, UDP, DHCP, ARP, MODBUS RTU, MODBUS TCP ASCII Command
LED Indication	LED for Power, USB, Ethernet and 32 LEDs as Digital indicators
Isolation Voltage	3000VDC

### Digital Input:

Input Channels	16 Channels
Input Type	Voltage or Switch On/Off
	Logic Low for 3Vdc maximum, Logic High for 5Vdc minimums
Isolation Voltage	2000V

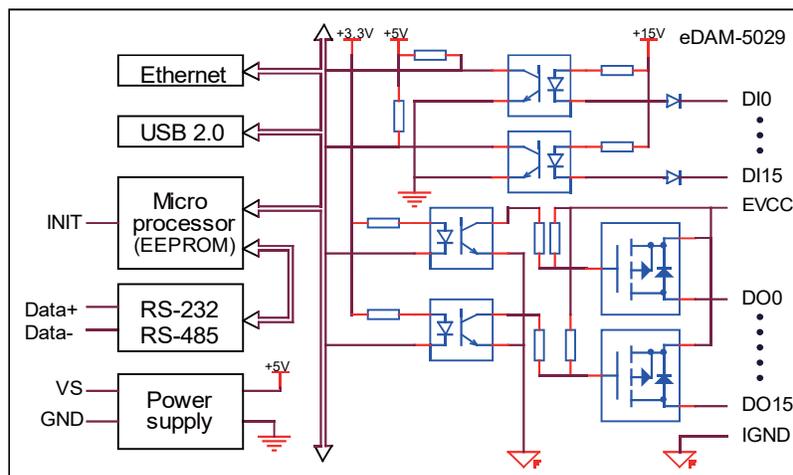
### Digital Output:

Output Channel	16 Channels
Output Type	Source Output up to 30Vdc/3A(max)
Isolation Voltage	2000V

### Power Requirement :

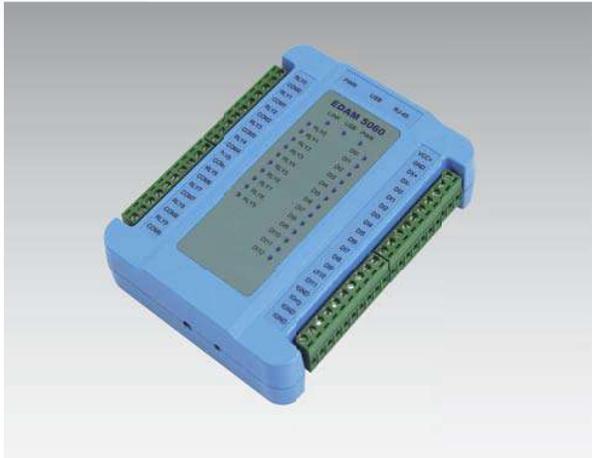
Consumption	1.5W/ Typical, 2W/max
Power Input	USB powered (400mA max.) or external unregulated +10 ~ +30VDC
Humidity	5 ~ 95% RH, non-condensing

## Block Diagram



# EDAM-5060

10-ch Relay and 12-ch Isolated Digital Input Module



## Features

- ◆ Support USB 2.0, 10/100 Ethernet, RS485/232C, CAN(optional)
- ◆ Protocol USB2.0 TCP/IP, MODBUS RTU, MODBUS TCP ASCII Command
- ◆ Support Isolated Input Channels
- ◆ Fully Photo-Isolation 3750Vrms
- ◆ Wide Supply Voltages (10~30V)

## Specifications

### Interface:

Communication	USB 2.0, 10/100 Ethernet, RS485/232C, CAN (Optional)
Protocol	TCP, UDP, DHCP, ARP, MODBUS RTU, MODBUS TCP ASCII Command
LED Indication	LED for Power, USB, Ethernet and 32 LEDs as Digital indicators
Isolation Voltage	3000VDC

Breakdown Voltage	Open Contacts : 1000VAC Contact and Coil : 1000VAC
FCC Surge Voltage	Contact and Coil : 1500V
Insulation Resistance	100M ohm (at 500VDC)
Operate Time	6ms
Release Time	4ms
min. Operations	500000 Times (at 1A/30VDC)

### Digital Input:

Input Channel	12 Channels
Input Type	Voltage or Switch On/Off Logic Low for 3Vdc maximum, Logic High for 5Vdc minimums
Isolation Voltage	2000V

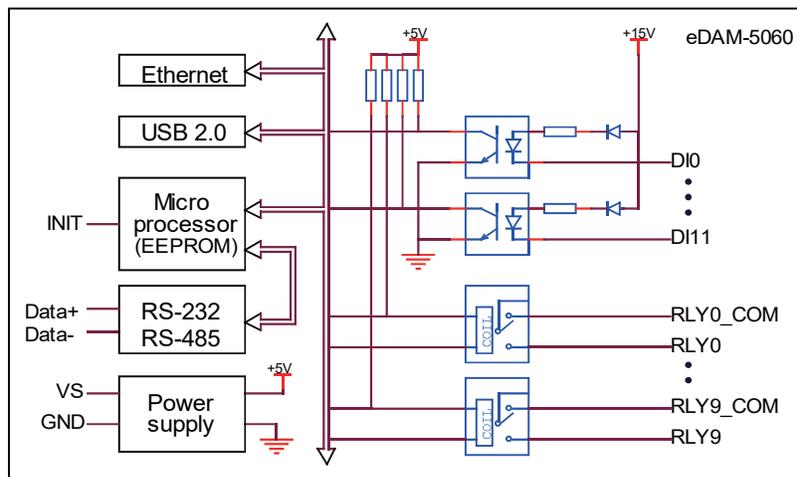
### Power Requirement :

Consumption	1.5W/ Typical, 2W/max
Power Input	USB powered (400mA max.) or external unregulated +10 ~ +30VDC
Humidity	5 ~ 95% RH, non-condensing

### Relay Output:

Relay Channel	10 Relay output
Relay Type	Form-A (DPDT)
Contact Rating	AC 0.5A/125V DC 1A/30V, 3A/110V

### Block Diagram



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