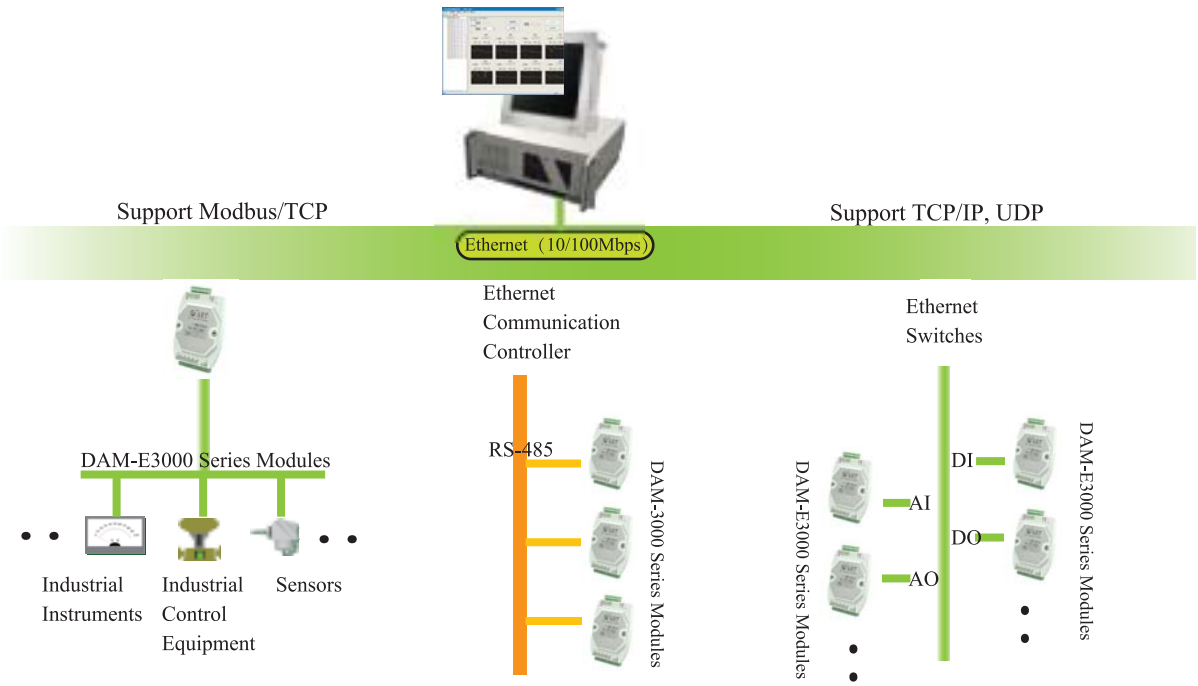
DAM-E3000 Series distributed data acquisition modules



Ethernet for industrial applications

With the development of Internet technology and standards, using remote Ethernet connectivity is one of the most economical, reliable solutions in industrial site, Web control will become an important part in industrial control. DAM-E3000 series of modules have built in Web server. Users can view the data anytime and anywhere through the Internet, and they can also customize the page to configure different applications to meet the demand. Through the application of the product, the users can interview the field data in real time; the actual remote control in industry will be realized.

More suitable to industrial environment

DAM-E3000 series of modules use industrial grade components, so the product can work in the extreme temperature from -40℃ to 85℃. The main processor with an ARM-chip is fast and powerful. Dual watchdog mechanism monitors the CPU and the application program, which automatically reset when the system crashes. It makes DAM-E3000 more suitable for field work and important occasions. Power supply module is +10VDC ~ +30VDC with a reverse protection function, which is frequently-used in the industrial field. DAM-E3000 Series of module also provides isolation protection with isolation voltage up to 3000VDC. Such performance indexes make DAM-E300 Series products extremely being qualified for the complex series of industrial field.

Independent input type configuration of the channels

DAM-E3000 series of modules support a programmed independent input type configuration of the channels. Users can configure every channel of the hot resistance module or thermocouple module for hot resistance type or thermocouple type.
This function makes DAM-E3000 series of modules more flexible to the applications of more conditions.

Reusable counter function of Digital Module

Each channel of Digital Input/Output module can be set to different functions, and these functions work at the same time. Modules with digital input function can turn the low-frequency pulses signals into digital signals via its counting unit. Each digital input channel can be configured as a 32-bit counter, counting frequency up to 500Hz. Digital output can be set to pulse output and the frequency up to 500Hz, which is far higher than the similar products.

Programmable Alarm Output

DAM-E3000 Series Analog Input Modules have an upper and lower limits alarm features. The upper and lower limits can be configured by its host. If the input signals beyond the limits, the modules will set the digital output to alarm value automatically. At the same time, there will be the alarm indication. Alarm output can be used to control the relay switch.

Dual Watchdog Mechanism

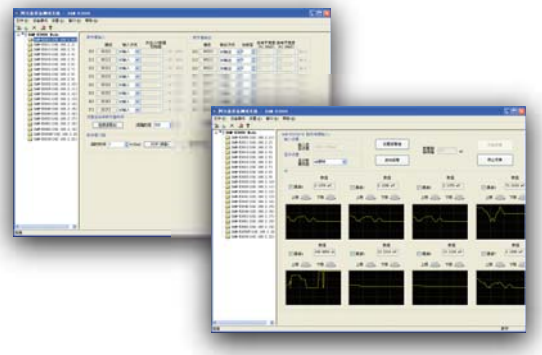
DAM-E3000 series of modules provide a perfect watchdog function, including the hardware watchdog (the module watchdog) and software watchdog (the host watchdog). Through the timer function, the hardware watchdog detects the working state of the module automatically. Reset the module automatically when it crashed and reset the analog output and digital output to the power value. Software watchdog detect whether the communication between the module and the PC is normal or not. If the PC crash or abnormal communication happens, reset the analog input and digital input to a security value.

Software Features

DAM-E3000 series of modules are based on the TCP/IP, UDP and Modbus /TCP protocol standards, package access and operation of the action through the DLL driver library, greatly reducing the strength of the user programming; As a result of the multi-language platform for Windows applications, customers could be familiar to the product in the relative short time. Supporting the provision of standard OPC Server, any kind of OPC Client software package can exchange data with the DAM-E3000 series of modules.

Advanced tools for Windows applications

DAM-E3000 series of modules provide a friendly module tool and the source code is open. Through the program, you can test the program, calibrate the products, monitor, read, and analyze the data, configure the module information and so on. The application can identify different types of modular products, and show the corresponding operator interfaces to help users to convert a variety of field signal to the corresponding engineering units or different displays.

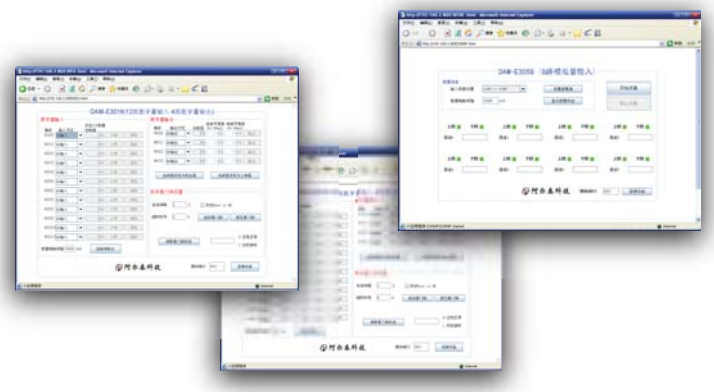


Provide DLL driver interface

The drivers of DAM-E3000 series modules adopt the international common naming way and functional structure. The classification of the functions and the operational processes are more in line with the general habit. With our normative, professional, and simple function interface, you can easily develop Windows applications. Furthermore， multi-language platform demo program support, such as VC, VB, BCB, Delphi and LabVIEW, makes the modules more easy to use.

Through the Internet browser to monitor data

DAM-E3000 series of modules have a default Html page, entering the corresponding IP dynamic data or controlling the external signals. If you need a personalized web page, we have provided a demonstration program of JAVA applet; the users can design their own web pages through referring to the program. Through high-level Windows applications you can also download the page to the module.

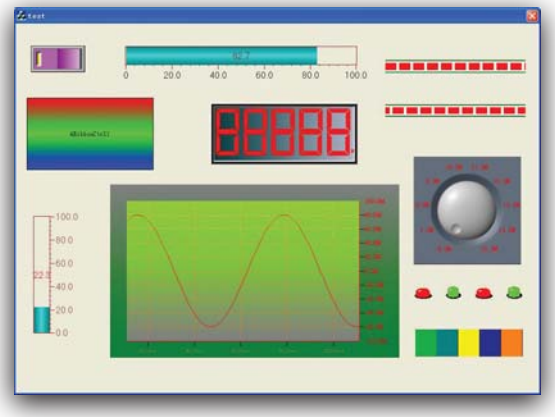


OPC Server

OPC is a normative data exchange style which is widely used by many software and hardware manufacturers all over the world. We provide OPC services based on the TCP / IP, UDP and Modbus / TCP protocol. Any OPC client of the HMI software can get the date from the corresponding modules. It can be used with much configuration software, such as Wincc, Intouch, and iFix, Kingview, MCGS, ForceControl and Century Star. This general-purpose seamless connection way makes different products and softwares being transparent collaboration. We will provide users with more support.

Configuration Control/Software

1 A powerful configuration environment with pleasing interface can shorten the programming cycle of the users. Users can develop applications in VC, VB and other Windows softwares which are more convenient by using our ActiveX controls.
2 Can be run under a variety of configuration environment



Ethernet Bus Data Acquisition Module

Counter/Frequency Module

DAM-E3070D

2-channel Frequency/Counter Input Module

※ Input Type: Counter
※ Input Channels: Independent 2-channel 32-bit counter
※ Maximum Frequency Input: 100 KHz
※ Input: 3750V Isolation or Non-isolation
※ Programmable digital filter
※ LED Displays: 5-bit
※ Provide 10/100 Mbps Ethernet

DAM-E3056AH

8-channel High-speed Analog Input Module

※ Input Channels: 8-ch single-ended input /4-ch differential input
※ Voltage Input Range: ±10V, ±5V, 0~10V, 0~5V
※ Current Input Range: ±20mA, 0~20mA, 4~20mA
※ Resolution: 16-bit
※ Sample Rate: 500 Hz
※ Isolation Voltage: 3000VDC
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

Analog Input Modules

DAM-E3039F

8-channel Thermocouple Analog Input Module

※ Input Type: thermocouple
※ Input Channels: 8-channel differential input
※ Resolution: 16-bit
※ Sample Rate: 10 Hz
※ Analog Isolation Voltage: 3000VDC
※ Output Channels: 1-channel digital output
※ Output Type: open-collector output
※ Max Load: 30V, 100mA
※ Digital Isolation Voltage: 3750VDC
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3058F

8-channel Analog Input Module

※ Input Channels: 8-channel differential input
※ Resolution: 16-bit
※ Input Type: mV, V, mA
※ Sample Rate: 10 Hz
※ Analog Isolation Voltage: 3000VDC
※ Output Channels: 1-channel digital output
※ Output Type: open-collector output
※ Max Load: 30V, 100mA
※ Digital Isolation Voltage: 3750VDC
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3041B

1-channel RTD Analog Input Module

※ Input Channels: 1-channel resistance temperature input
※ Resolution: 16-bit
※ Sample Rate: 10 Hz
※ Input Connect Mode: 2-wire, 3-wire, 4-wire
※ Analog Isolation Voltage: 3000VDC
※ Output Channels: 1-channel digital output
※ Output Type: open-collector output
※ Max Load: 30V, 100mA
※ Digital Isolation Voltage: 3750VDC
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3043

3-channel RTD Analog Input Module

※ Input Channel: 3-channel resistance temperature input
※ Resolution: 16-bit
※ Sample Rate: 10 Hz
※ Input Connect Mode: 2-wire, 3-wire, 4-wire
※ Analog Isolation Voltage: 3000VDC
※ Output Channels: 1-channel digital output
※ Output Type: open-collector output
※ Max Load: 30V, 100mA
※ Digital Isolation Voltage: 3750VDC
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3046

6-channel RTD Analog Input Module

※ Input Channels: 6-channel resistance temperature input
※ Resolution: 16-bit
※ Sample Rate: 10 Hz
※ Input Connect Mode: 2-wire, 3-wire
※ Isolation Voltage: 3000VDC
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

Analog Output Modules

DAM-E3061

1-channel Analog Output Module

※ Output Channels: 1-channel analog output
※ Resolution: 12-bit
※ Output Type: V, mA
※ Output Range: 0~5V, 0~10V or 0~20mA, 4~20mA
※ Isolation Voltage: 2000VDC
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3062

2-channel Analog Output Module

※ Output Channel: 2-channel analog output
※ Resolution: 12-bit
※ Output Type: V, mA
※ Output Range: 0~5V, 0~10V or 0~20mA, 4~20mA
※ Isolation Voltage: 2000VDC
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

Digital Input / Digital Output Modules

DAM-E3011

8-ch Isolation Digital Input/1-ch Open-collector Output Module

※ Input Channels: 8-channel digital input
※ Output Channels: 1-channel digital output
※ Output Type: open-collector output
※ Max Load: 30V, 200mA
※ Isolation Voltage: 3750V
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3012

16-channel Isolation Digital Input Module

※ Input Channels: 16-channel digital input
※ Digital Input: wet contact
Logic level 0: +1V
Logic level 1: +4V~+30V
※ Isolation Voltage: 3750V
※ Support 10/100 Mbps Ethernet
※ Support Dual Watchdog
※ Provide default or custom built web page

DAM-E3013

16-channel Isolation Digital Input Module

※ Input Channels: 16-channel digital input
※ Digital Input: dry/wet contact
※ Isolation Voltage: 3750V
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3014

16-channel Isolation Digital Output Module

※ Output Channels: 16-channel digital output
※ Output Type: open-collector output
※ Max Load: 30V, 200mA
※ Isolation Voltage: 3750V
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3016

12-ch Isolation Digital Input/4-ch Open-collector Output Module

※ Input Channels: 12-channel isolation digital input
※ Digital Input: dry/wet contact
※ Output Channels: 4-channel digital output
※ Output Type: open-collector output
※ Max Load: 30V, 200mA
※ Isolation Voltage: 3750V
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3017

2-ch Isolation Digital Input /8-ch PhotoMos Relay Output Module

※ Input Channels: 2-channel isolation digital input
※ Input Type: wet contact
Logic level 0: +1V;
Logic level 1: +4V~+30V
※ Output Channels: 8-channel digital output
※ Output Type: PhotoMos relay output
※ Contact Rating: 350VAC @0.13A
※ Isolation Voltage: 3750V
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3018

8-channel Relay Output Module

※ Output Channels: 8-channel digital output
※ Output Type: A- type relay output
※ Contact Rating: 250VAC @1A; 30VDC @2A
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3021

8-ch Isolation Digital Input/8-ch Open-collector Output Module

※ Input Channels: 8-channel isolation digital input
※ Input Type: dry/wet contact
※ Output Channels: 8-channel digital output
※ Output Type: open-collector output
※ Max Load: 30V, 200mA
※ Isolation Voltage: 3750V
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3024

6-ch Isolation Digital Input/6-ch A-type Relay Output Module

※ Input Channels: 6-channel isolation digital input
※ Digital Input: dry/wet contact
※ Output Channels: 6-channel digital output
※ Output Type: A-type relay output
※ Contact Rating: 250VAC @1A; 30VDC @2A
※ Isolation Voltage: 3750V
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3025

6-ch Isolation Digital Input/5-ch Power Relay Output Module

※ Input Channels: 6-channel isolation digital input
※ Input Type: dry/wet contact
※ Output Channels: 5-channel digital output
※ Output Type: A-type power relay output
※ Contact Rating: 250VAC @1A; 30VDC @2A
※ Isolation Voltage: 3750V
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page

DAM-E3026

6-ch Isolation Digital Input/6-ch AC SSR Relay Output Module

※ Input Channels: 6-channel digital input
※ Input Type: dry/wet contact
※ Output Channels: 6-channel digital output
※ Output Type: AC solid state relay output
※ Contact Rating: 100~ 240VAC @1A
※ Isolation Voltage: 3750V
※ Support 10/100 Mbps Ethernet
※ Provide default or custom built web page