

ADAM-6000 Product Map

Digital Input

Digital Output

Counter

Relay



ADAM-6050

- Isolated 12 DI/6 DO
- DI: 10 ~ 30 V_{DC}
- DO: Max. 30 V_{DC}(sink)



ADAM-6051

- Isolated 12 DI/2 DO/2 Counter
- DI: 10 ~ 30 V_{DC}
- DO: Max. 30 V_{DC}(sink)
- Counter: 1KHz



ADAM-6060

- Isolated 6 DI/6 Relay
- DI: 10 ~ 30 V_{DC}
- Relay: FormA. 25 V_{AC}

Analog Input

Analog Output



ADAM-6015

- 7-channel RTD AI
- Independent channel input type
- Pt-100/1000, Ni, Balco 500
- (Available in Q4 2002)



ADAM-6017

- 8 AI/2 DO
- AI: V, mV, mA
- DO: Max. 30 V_{DC}(sink)



ADAM-6018

- 8 Thermocouple/8 DO
- AI: T/C, V, mV, mA
- DO: Max. 30 V_{DC}(sink)
- (Available in Q4 2002)

Hub

Switch

Fiber-Optic



ADAM-6510

- 4-port Industrial
- 10/100 Mbps Ethernet Hub



ADAM-6520

- 5-port Industrial
- 10/100 Mbps Ethernet Switch



ADAM-6521

- 5-port Industrial
- 10/100 Mbps Ethernet Switch
- with Fiber port

Communication

Controller



ADAM-6500

- Communication Controller
- WinCE 3.0 embedded
- VB/VC programming
- (Available in Q4 2002)

Web-based

Camera



ADAM-6090

Web-based Camera

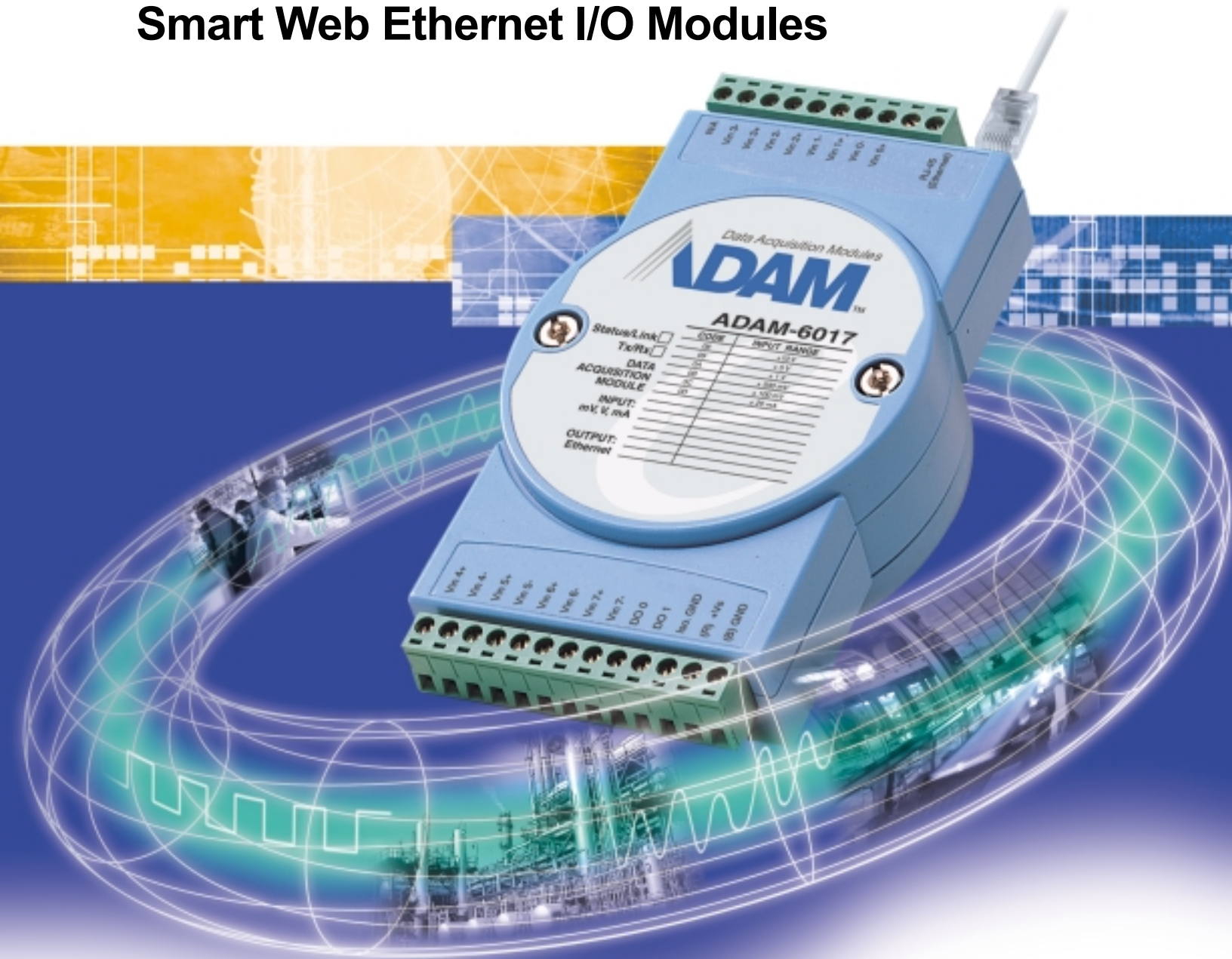
- 10/100 Based-T Ethernet
- Support Wired & Wireless Ethernet
- Up to 20 frame per second
- Provide 2 DI & DO Alarm point
- Web-based system configuration

ADVANTECH

eAutomation

ADAM-6000

Smart Web Ethernet I/O Modules



Applications

- ▶ Environmental Monitoring
- ▶ Facility Management System
- ▶ Home/Building Automation
- ▶ Machine Automation
- ▶ Factory Automation

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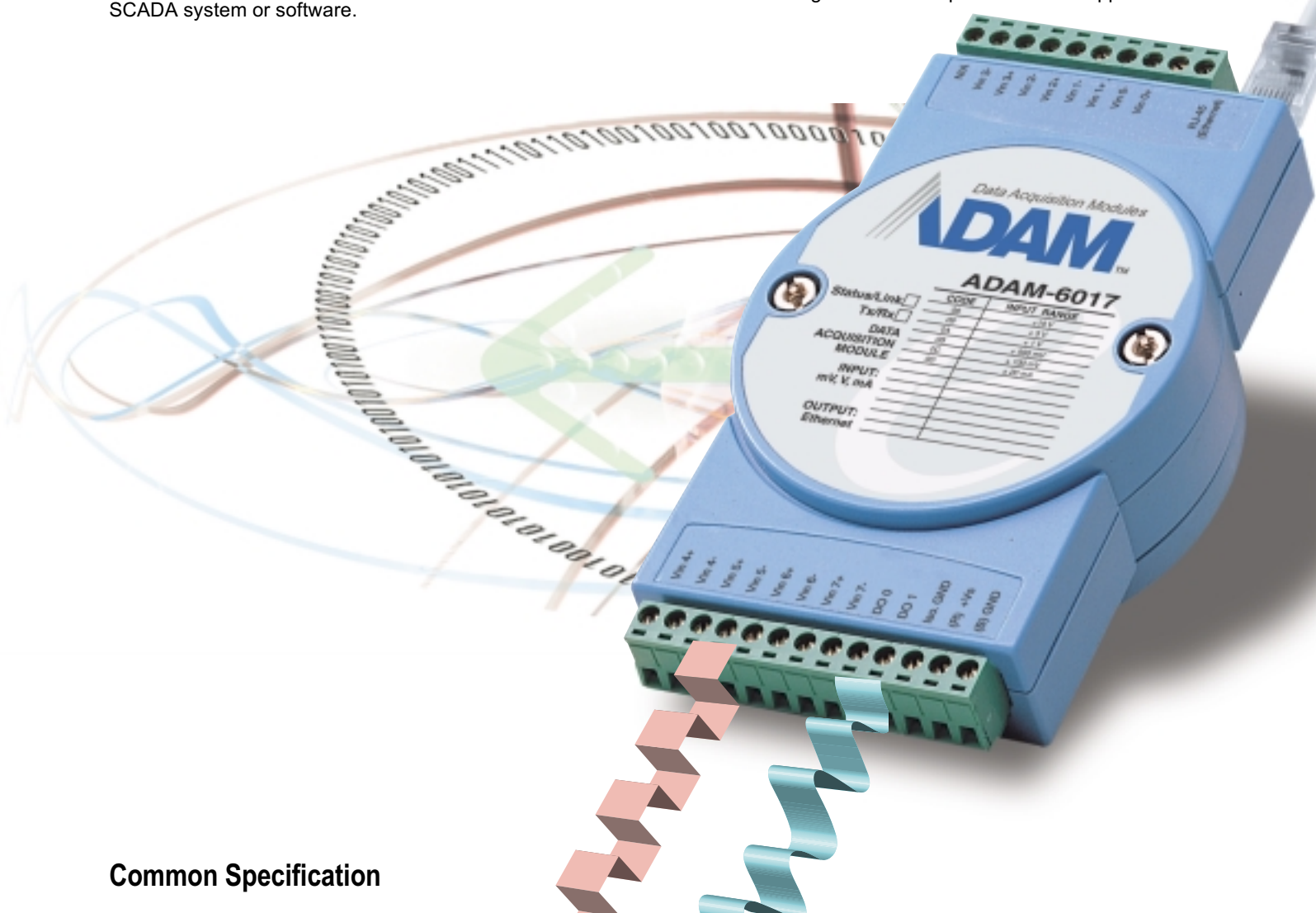
eAutomation

ADAM-6000

ADAM-6000, an Ethernet-based data acquisition and control module, provides I/O, data acquisition and networking in one module to build a cost-effective, distributed monitoring, and control solutions for a wide variety of industrial applications. ADAM-6000 is based on the popular Ethernet networking standard used today in most business environments. Users can easily add ADAM-6000 I/O modules to existing networks or use the system in new networks built with readily available, standard hardware. ADAM-6000 is an Internet Protocol (IP)-based system that supports both TCP and UDP over 10/100 Mbps Ethernet networks. ADAM-6000 also supports industrial standard Modbus/TCP protocol to easily link with legacy HMI/SCADA system or software.

Based on ADAM-6000 series modules, Advantech represents a convergence of technologies by successfully combining I/O, control functions and Ethernet networking into a single, cohesive module.

The ADAM-6500 is a fully functional Ethernet-enabled controller for industrial automation and control. It provides an ideal environment to develop applications converting RS-232/485 devices/equipment data to the Ethernet/Internet world with a minimum amount of effort. Its built-in Windows CE.NET operating system lets users run new programs produced by Microsoft embedded VB or VC++. The Windows environment also includes a web server to allow designers to develop web-enabled applications.



Common Specification

Processor

- 32-bit Processor
- Communication
- 10 Mbps Ethernet
- Polling & Event handling
- Modbus/TCP protocol
- TCP/IP, UDP/IP Protocol

Power Requirement

- Unregulated 10 - 30 V_{DC}
- Protected against power reversal

Environment

- Operating temp.: -10 ~ 65° C
- Humidity: 5% - 95%, non-condensing

Mounting

- Din-rail mounting
- Panel mounting
- Piggyback mounting

Application

Industrial Ethernet networking base

ADAM-6000 series provides various communication modules such as Ethernet hub, Ethernet switch and Ethernet switch with fiber port.

Ethernet-enabled devices to acquire/monitor real-time data on-line

Through Ethernet networking, HMI/SCADA systems and controllers can access or gather real-time data from ADAM-6000-ethernet enabled DA&C modules. This real-time data can be integrated with business systems to create valuable, competitive business information instantly.

Just-fit mixed I/O design

ADAM-6000's mixed I/O design optimizes the I/O systems, eliminates engineering efforts and maintenance cost. For small DA&C systems or standalone control units within larger scaled systems, ADAM-6000 can easily fit application needs by using one or two modules only. With additional embedded control modules, ADAM-6000 can easily create a localized, less complex and more distributed I/O architecture.

Powerful, pre-built mathematic functions

The pre-built mathematic functions include MAX, MIN, AVG, ...etc. With these pre-built functions, field raw data is transferred to a more usable form inside module, so it reduces Ethernet communication and host PC computing loading.

Pre-built and user-defined web page for remote browser monitoring

Each ADAM-6000 module features an embedded web server and a pre-built I/O module web page to display real-time I/O data values, alarm and module status thru LAN or internet. Using an internet browser, users can easily monitor real-time I/O data values and alarm no matter of their location. Moreover, users can design their own web page to replace the pre-installed web page.

Industrial Modbus/TCP protocol supported

ADAM-6000 series supports the industrial standard Modbus/TCP protocol to connect HMI/SCADA. Advantech also provides an OPC server for Modbus/TCP to integrate ADAM-6000 I/O real-time data values with OPC client- enabled software.

Ready for the industrial environment

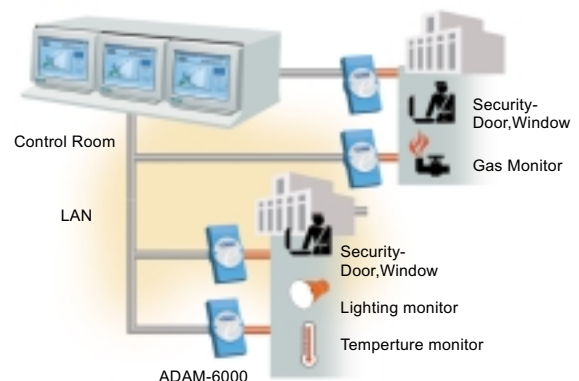
ADAM-6000 modules accept any unregulated power source between +10 and +30 V_{DC}. They are protected from accidental power supply reversals. The operating temperature is from -10° C to 65° C. Users can easily mount ADAM-6000 module thru DIN-Rail, Wall and PiggyBack mounting.

Software

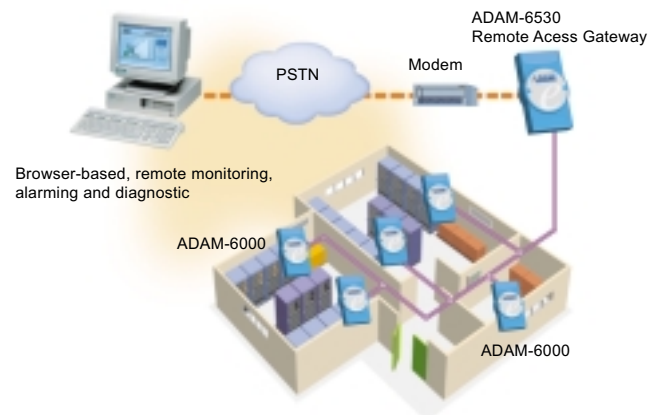
- TCP, UDP, DHCP client and HTTP server supported
- Pre-built monitor/alarm web page
- Modbus/TCP supported
- Windows-based configuration utility via LAN

Home/Building Automation

Acquire/Display real-time data at HMI/SCADA



Facility Management System



Factory Automation

