

EDAS[®] CE



Programmable Automation Controller

Windows CE

Easy application development using Microsoft's eMbedded Visual C++. Windows CE 3.0 provides true multitasking, allowing both control and monitoring functions to run simultaneously on an EDAS CE system.

Modular I/O

Industrial modular case design provides 8 to 192 channels of isolated I/O per base unit. Supports any combination of analog and digital I/O, and RS-232 data, giving EDAS CE the flexibility to create a wide range of automation and control applications.

Ethernet Connectivity

Ethernet delivers high-speed networking with 10 and 100 Mb/s. Most facilities already have Ethernet installed and components are widely available at very low cost. Ethernet and TCP/IP are standard, integrated components of the PC, Windows, and the Internet.

Network Standards

EDAS CE supports TCP/IP, UDP, SNMP, DHCP, HTTP and time synchronization.

Non-Volatile Storage

EDAS CE can support up to 500 MB of non-volatile storage allowing it to be used in stand-alone data logging applications or to continue operating and logging data in the event of a network disruption.

Microsoft eMbedded Development Tools

With EDAS CE, applications can be developed using Microsoft's eMbedded™ Visual Tools. These tools allow users to write, download and debug applications for the EDAS CE using the popular eMbedded Visual C++ programming environment. The built-in networking, including a TCP/IP stack, allows applications running on EDAS CE to communicate with other computers and other EDAS CE units on your network as part of a plant-wide control and monitoring solution.

The Windows CE 3.0 operating system provides true multitasking with 256 priority levels allowing both high priority and lower priority tasks to be run simultaneously on the same device. This enables a single EDAS CE system to function as both the machine/process control system, and to also function as the machine monitoring system, providing real-time machine and process information to the company's manufacturing execution systems.

Serial-to-Ethernet - SerialSocket

The SerialSocket application can be run on the EDAS CE to provide an Ethernet socket to serial port connection. When Serial Socket is running and configured, a remote device can open a socket connection to the EDAS CE over Ethernet and send and receive data through the RS-232 serial ports on the EDAS CE.

Remote Manager

The Remote Manager interface shows system information for IP 192.168.1.231, name EDASce_1, and location New Install. It lists management functions like Applications Manager, File Manager, Module Manager, System Manager, Security Manager, Update Manager, and Developer's Guide. The Module Manager shows a table of modules:

Module	Model	View	Configure	Description
0	EDAS-2002M	View	Conf	CPU, 10/100baseT, 1-RS232 port
1	EDAS-2002M	View	Conf	Digital IO: 4 out, 8 in, 24Vdc
2	EDAS-2004M	View	Conf	Digital IO: 16 ch, 24Vdc
3	EDAS-2003M	View	Conf	Analog Input: 16/8 SEC/Off ch, 12-bit
4	EDAS-2005M	View	Conf	Digital Output: 12 ch, 24Vdc

The Remote Manager is a Web application that runs on Intelligent Instrumentation's WebDevice Web server. It allows user interaction with the EDAS CE through a standard browser interface.

The Remote Manager allows you to:

- Up/download files
- Run/terminate/view applications running on the EDAS CE
- Configure and View module I/O
- Reboot the EDAS CE
- Download updates to the EDAS CE
- Access documentation of server side scripting

Build Web Enabled Applications

The top screenshot shows a "Web Device Demo" with digital output controls for Port 0 and Port 1. The middle screenshot shows a table of analog input channels:

Channel	Name	Value
Channel0		0.0391
Channel1		-0.0732
Channel2		0.0146
Channel3		-0.0342
Channel4		0.1367
Channel5		0.0781
Channel6		0.0244
Channel7		0.0977
Channel8		0.1318
Channel9		0.0781
Channel10		0.0049
Channel11		-0.0684
Channel12		0.0146
Channel13		-0.0146
Channel14		-0.0439
Channel15		-0.1563

The bottom screenshot shows a chart for Channel 0 and a meter displaying -0.0586.

Armed with only a text editor and browser, you can build and deploy web-based applications directly on the EDAS CE. Using WebDevice's scripting language, you can develop applications that read inputs, set outputs, log data, generate alarms, post data to a database, push data to an intranet server, send email, sound alarms, and provide an HTML user interface. The applets included can be added to web pages to provide real-time displays in a browser.

INCREASE THE VISIBILITY & PRODUCTIVITY OF YOUR OPERATIONS WITH FAST AND ACCURATE DATA ANYWHERE, ANYTIME.

INDUSTRIAL I/O APPLICATIONS

- Factory Automation
- Process Monitoring & Control
- Machine Monitoring & Control
- Laboratory Automation
- Networked or Stand-alone Operation
- Environmental Monitoring & Control
- Remote Data Acquisition
- Data Logging

FEATURES/BENEFITS

Web Enabled

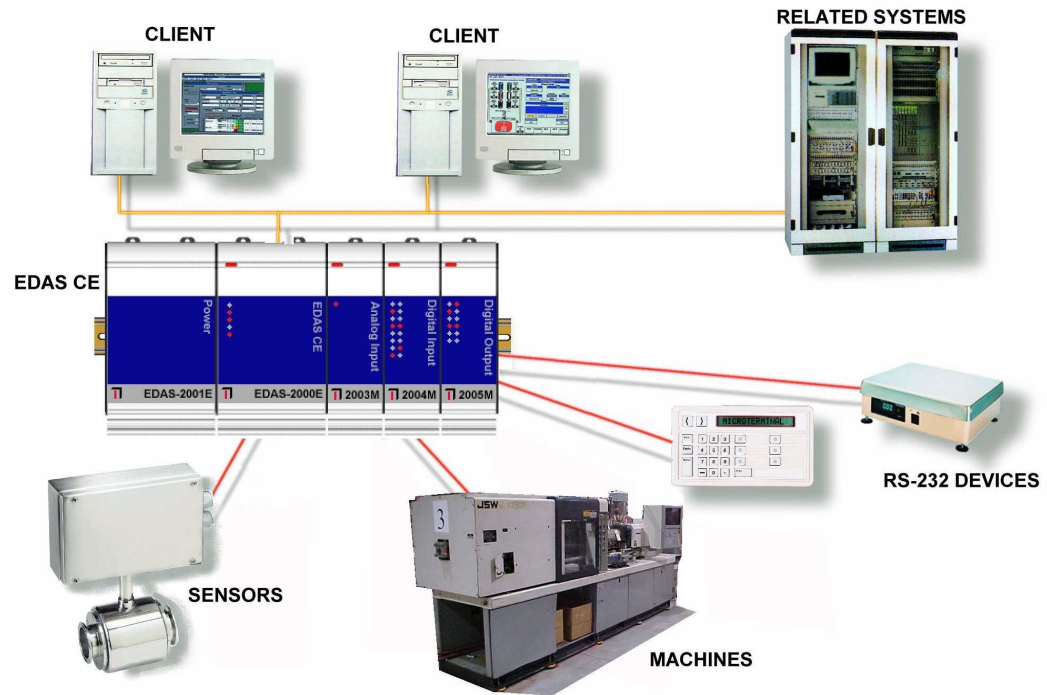
EDAS CE includes an embedded server, WebDevice, with server side scripting capability and "push technology" allowing the user to build Web centric applications that run on the EDAS CE. Using only a text editor and browser, complete Web enabled applications can be implemented.

Open Architecture

EDAS CE's open systems environment provides easy interface to existing and future plant-wide systems. Take advantage of existing network infrastructure, lower cost network components, and already knowledgeable staff for networking and application development and support.

EDAS[®] CE

Ethernet Programmable Automation Controller



Open Architecture Industrial I/O

The EDAS[®] CE was designed using open architecture standards allowing for easy development and deployment into existing and future automation systems. By leveraging the efficiencies of standard technology, you are ensuring a lower Total Cost of Ownership. With EDAS CE you can take advantage of lower component costs, your existing network infrastructure, and existing knowledgeable staff for networking and application development. Digital I/O, analog I/O, RS-232, 10/100BaseT Ethernet and Windows CE, all in an industrial modular package, make EDASCE the ideal solution for a wide range of applications in today's open architecture manufacturing environment.

Networked and Stand-Alone Operation

With built-in 10/100BaseT Ethernet the EDAS CE is ready to run networked applications, providing connectivity across your enterprise. Other networked devices can communicate with the EDAS CE to read and write its I/O points or an application can be downloaded to run directly on the unit. Applications running on the EDAS CE can operate stand-alone allowing the unit to provide real-time control during network downtime.

The EDAS CE supports Compact Flash cards with up to 500 Mbytes of non-volatile local storage, making it ideal for stand-alone or remote data logging applications.

Modular I/O Offers Flexibility

The modular architecture of EDAS CE allows you to mix and match I/O as necessary to meet the needs of a wide range of automation, control, and measurement applications. Each EDAS CE system supports up to 12 modules allowing for systems from 8 to 192 I/O points per base unit.

The modules provide connectivity to virtually all sensors including temperature, pressure, flow, voltage, current, contact closures and RS-232 devices. All modules have rugged industrial aluminum housings that are DIN mountable for easy standard installation and long-term reliable operation.

WebDevice Embedded Web Server

The EDAS CE Base Unit includes an embedded Web server called WebDevice. WebDevice can serve both static and dynamic web pages. Dynamic web pages can include raw or processed data from the I/O modules, serial ports, and non-volatile storage. WebDevice supports push-technology, allowing data from the EDAS CE to be pushed to real-time display applets running on remote workstations. WebDevice can interface with machines that use ODBC to store or retrieve data from databases. WebDevice can also interface with other Web servers running on a wide range of platforms, allowing real-time data to be posted to ASP, PHP, CGI, or other server side processors.

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Intelligent Instrumentation also designs and manufactures data collection and HMI data entry terminals, a few of which are shown here. Supported in more than 30 countries, Intelligent Instrumentation maintains a worldwide network of Regional Marketing Centers, authorized System Integrators and Value Added Resellers. To contact the local office nearest you visit our Web site at www.instrument.com.

Local Contact:



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