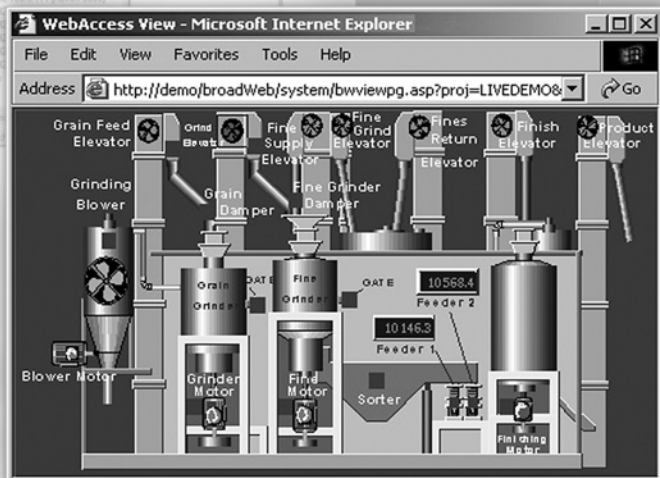
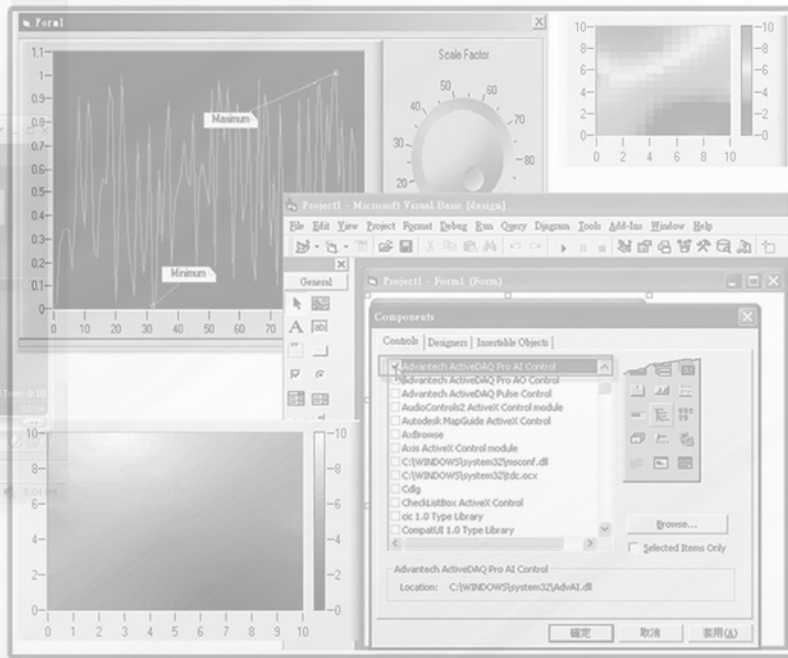
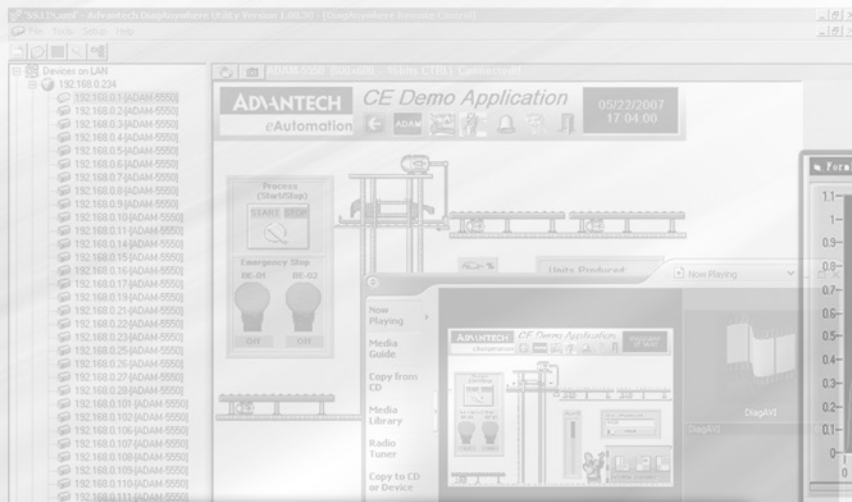




Automation Software

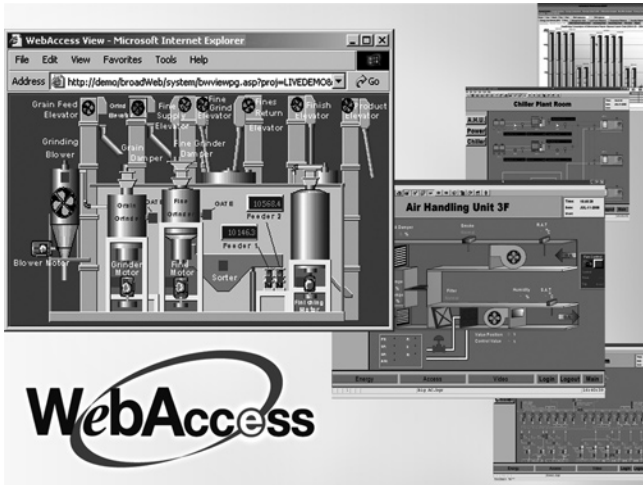
Advantech WebAccess	Browser-based HMI/SCADA Software	1-2
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Advantech WebAccess



Browser-based HMI/SCADA Software



Features

- View, control, configure system remotely over an intranet or the Internet using ordinary Web browser
- Supports Vector-based Graphics
- Use the open standard programming TCL, JScript or VB script
- Control equipment based on pre-defined schedule (time, date and holiday)
- Distributed SCADA Architecture
- Central Database Server
- Redundant SCADA and COM ports
- Global access to alarms and data
- Supports LonWorks LNS and BACnet IP
- Email alarm, report and message
- Customized functional toolbox
- Video and audio with animation

Introduction

Advantech WebAccess is fully web browser-based software package for human-machine interfaces (HMI), and supervisory control and data acquisition (SCADA). All the features found in conventional HMI and SCADA software packages are available in an ordinary Web browser including Animated Graphics Displays, Real-time Data, Control, Trends, Alarms and Logs. WebAccess is totally based on standard internet architecture, its basic component includes:

1. SCADA Node: it communicates in real-time with automation equipments and control the equipment via Serial, Ethernet or proprietary communications. The SCADA Node can provide supervisory control and data acquisition functions, includes supplying communication driver (Modbus, PLC, and I/O systems), real-time and historical trending. It also can monitor and log alarm and event. The SCADA Node has its own run-time database and all graphics.
2. Project Node: it is the developing platform for WebAccess, and all system configuration and project development is implemented on the Project Node. It is a web server for all Client and SCADA node to connect with.
3. Client: through an ActiveX control inside Internet Explorer Web browser, it has the ability to monitor and control the SCADA Node simultaneously. The Client connects to the Project Node only to get the address of the SCADA Node. The Client then communicates directly with the SCADA Node using proprietary communications over a TCP/IP network connection. Data is displayed in real-time with dynamically updated graphics, and user can monitor real-time and historical trending with alarm record. Besides, user can acknowledge alarms and change setpoints, status and other data.
4. Thin Client: The Thin Client interface is intended for use with PDA, Pocket PCs and Handheld computers. Other ASP enabled web browsers can view the thin client graphics. Thin Client interface supplies static snapshots of dynamic graphics as GIFs and JPEGs. No plug-in or ActiveX control is required. Real-time Data, Alarms and changes to data are through a text type interface. Thin Client has been tested with the iPAQ series of pocket PCs. The thin client does not communicate with the SCADA node directly. The Thin Client communicates directly to the Project Node (Web Server).

Features

Web Browser Client to View and Control

Using a standard Web browser, users can view and control automation equipment used in industrial, manufacturing, process and building automation systems. Data is displayed to users in real-time with dynamically updated graphics using full-motion animation.

Powerful Remote Diagnose and Maintenance Functionality

The unique feature, which distinguishes WebAccess from the competition, is that all engineering project, configuration, graphics building (DRAW) and software management (download, start and restart remote nodes) is performed using a standard Web browser. If there is any troubleshooting needed, no matter wherever the operator is located, he can use the standard internet to operate the system. This can significantly increase the efficiency of maintenance operation and reduce the maintenance cost.

Vector-based Graphics

WebAccess features Vector-based graphics. Vector-based graphics provide smaller file sizes and faster download. Because Vector-based graphics use mathematic algorithm to save image, its file size is much smaller than Bitmap graphics. Therefore it is much faster to transfer Vector-based graphics on internet. Besides, WebAccess features user interface self-adaptive adjustment technology, no matter how user adjust the screen ratio of monitor, WebAccess can ensure all the user interface will be displayed on the screen. When the resolution of screen increases, the display performance will also become better respectively.

Import BMP, JPEG and GIF

Except Vector-based graphics, WebAccess also supports the most popular BMP, JPEG and GIF Bitmap format file, and user can zoom in or zoom out these image as well as animation configurations. WebAccess also provides build-in animation image libraries.

Import AutoCAD DXF

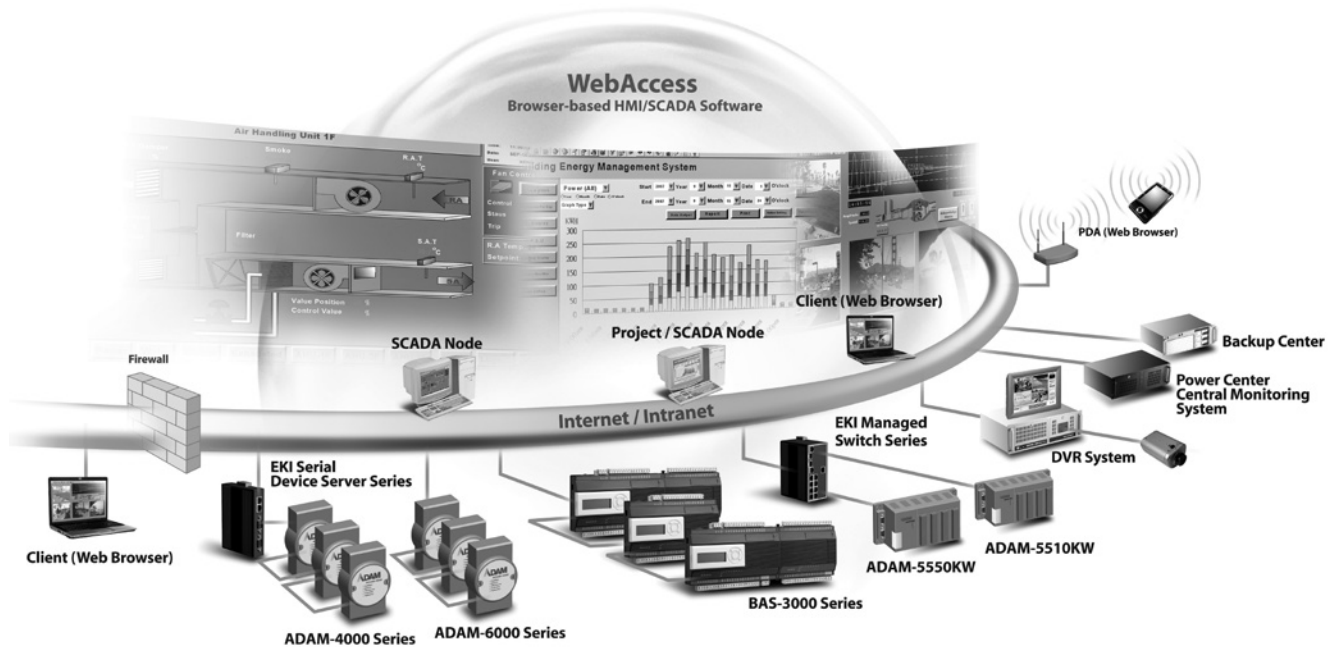
WebAccess environment is similar to AutoCAD, and this can make engineer who is familiar with AutoCAD get used to WebAccess in short time. Users can even import the DXF format file into WebAccess. Users can edit the imported data and decide the animation configuration.

Scripts Using TCL, Java Script or VB Script

Scripts in WebAccess use the open source programming languages TCL, Java Script or VB Script and allow users to develop customized actions, calculations and reports.

Scheduler

The Scheduler provides control and changes setpoint status based on time and date. Lights, Fans, and HVAC equipment are turned on and off based on the time, day of week and date. The Scheduler is also used in process control and manufacturing applications. All these schedule configurations can be modified remotely through internet.



Distributed Architecture

SCADA nodes run independent of any other node. Each SCADA node communicates to automation equipment using communication driver supplied with WebAccess.

Central Database Server

The project node is a centralized database server of configuration database and configurable process database through ODBC interface.

Redundant SCADA & COM Ports

Assure continuous, reliable communications to automation equipment.

DDE, OPC and ODBC Interface

Microsoft communications standards to exchange data with your automation equipment, spreadsheets, databases or 3rd party software.

Historical and Real-time Trend, Data and Centralized Logs

Each tag is logged to a separate file on the SCADA node, and user can view the real-time and historical data from the historical trend. Besides, new tags can be added to a historical trend display without losing history of other tags. User can decide the background, color and type of real-time and historical trend display. Real-time data, alarms, event from all nodes are logged to central ODBC database.

Alarm

Each tag comes with multiple alarm type. User doesn't need to use extra program for the alarm, instead, user only need to configure the alarm type (HH, H, L, LL, DEV and ROC) for each tag. The alarm for analog tag also supports Deadband. WebAccess features alarm filter, alarm grade, alarm sorting, alarm historical record, and alarm value on-line adjustment.

Recipe Function

Recipes provide an easy method for operators and users to change the value of hundreds of settings.

Enhanced Security

Using the Area of Responsibility concept to restrict changes to data, users can be assigned various privileges to restrict display and data access.

HTML Reports

Generate HTML Reports using menu-based queries of centralized ODBC Logs based on date, time, tag, including: analog and discrete data, System Log, Alarm Log and Operator Action Log. Copy and paste these html reports to EXCEL, Word, etc.

Excel Import/Export

Users can create and modify Tag in a spreadsheet using copy, paste, edit and other Excel tools. Databases can be imported from other HMI packages.

Email Alarms, Reports and Messages

WebAccess will e-mail alarms, reports, and logs to pagers and PCs. Alarms can be acknowledged using the reply mail.

Customized Functional Toolbox

Use Microsoft Icon files to build tool bars. These can be imported from any application. Or, animate Toolbars buttons built using DRAW to provide flashing, color change, text changes or any animation.

- 1 Automation Software
- 2 Touch Panel PC
- 3 Industrial Panel PC
- 4 Industrial Monitor
- 5 Fanless Box PC
- 6 Ethernet Switch
- 7 Device Server
- 8 Serial Comm. Card
- 9 DAQ
- 10 Signal Conditioning
- 11 USB DAQ
- 12 Motion Control I/O
- 13 PC-based Controller
- 14 PAC
- 15 RS-485 I/O
- 16 Ethernet I/O
- 17 Building Automation
- 18 Video Surveillance

Web-enabled Video Display

WebAccess allows operators and users to monitor equipment and facilities directly using web-enabled full-motion video cameras, audio and web cams. WebAccess supports the use of live Video cameras that are IP-enabled via an ActiveX control, Windows Media Player, JPEG and other formats supported by Internet Explorer 6.0 (or later). The Video Image appears in the same display area as Graphic Displays, Alarms and Trends. Optionally, WebAccess can launch the Video in a "Pop-up" window. WebAccess supports pushbutton keymacros to easily call up Video Cameras. WebAccess scripts can be used to automatically rotate between multiple cameras and send Point-Tilt-Zoom (PTZ) commands.

Advantech's BEMS

Advantech's Building Energy Management System software analyzes energy usage, helps save energy costs. Additionally, it provides the following features:

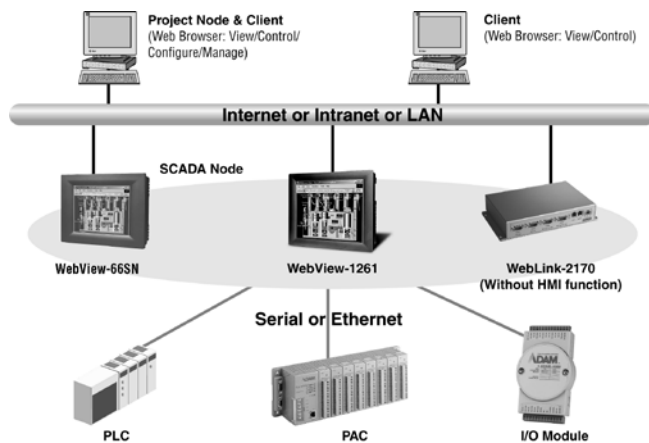
- Receive, store and analyze metering and sensor data to optimize energy usage.
- Provides powerful analysis and reporting tools for exploring cost reduction opportunities.
- Automates cost allocation and supports utility bill validation.

WebAccess CE Version

Advantech provides the WebView-66SN, WebView-1070, WebView-120H, WebView-1261, WebView-1270 and WebLink-2170, all as SCADA Nodes. When purchasing these products, users will get one CD containing all the necessary programming tools. This allows users to program applications on their own PC (Project Node), and then download it into the the SCADA Node through Internet, Intranet or LAN.

When the application is running on the SCADA Node, users can monitor and control the application on another computer (Client) through the same network. The SCADA Node hardware provided by Advantech can connect with Advantech BAS-3000 series, ADAM-4000 series, ADAM-5000 series, ADAM-6000 series and PLC.

The complete structure can be seen in picture below.



Differences between WebAccess Win32 and WinCE Versions

Software Specification	Win32 Professional	WinCE
I/O Tag Number	150/300/600/1200/5000/20K /Unlimited	150/600 (WebView) 600 (WebLink)
Internal Tag Number	150/300/600/1200/5000/20K /Unlimited	150/600 (WebView) 600 (WebLink)
Web Client	Unlimited	2
Alarm Logs	5000	1000 (WebView) NO (WebLink)
Action Logs	5000	1000 (WebView) NO (WebLink)
Graphic		
Number of Graphic Pages	Unlimited (limited by H/D size)	100 (WebView only)
Variables per Graphic Page	Unlimited (limited by H/D size)	255 (WebView only)
Tag source	Global	Local (WebView only)
Trend logging		
Number of data logging	Number of IO tags license x 2	50 Tags (WebView only)
Alarm Groups per SCADA	9999	99 (WebView only)
Receipt		
Recipes per Project	Unlimited (limited by H/D size)	100 (WebView only)
Unit per Recipe	999	100 (WebView only)
Item per Unit	999	999 (WebView only)
Scheduler		
Holiday Configuration Group	999	10 (WebView only)
Time Zone Group	9999	99 (WebView only)
Device Loop Group	9999	99 (WebView only)
Equipment Group	9999	99 (WebView only)
Centralized logs on project node via ODBC	YES	NO
SCADA Redundancy	YES	NO
Script language	TclScript/VBScript/JScript	TclScript (WebView only)
Web-enabled Video	YES	NO
E-mail	YES	NO
Data Transfer	YES	NO
OPC	YES	NO
ODBC and SQL Query	YES	NO
Reporting	YES	NO

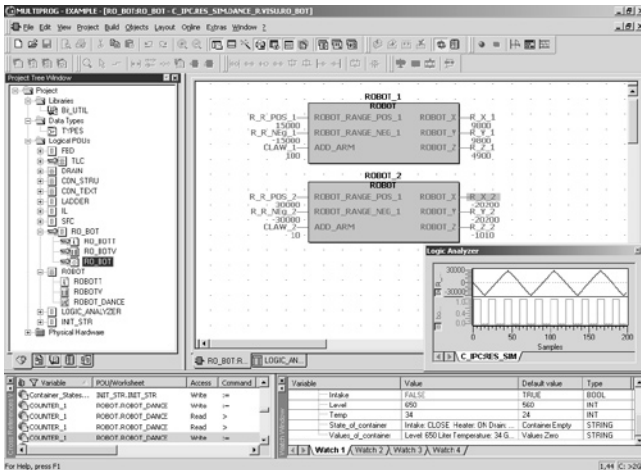
Ordering Information

- **WAP-150-W60** WebAccess Win32 Professional V6.0 150 Tag
- **WAP-300-W60** WebAccess Win32 Professional V6.0 300 Tag
- **WAP-600-W60** WebAccess Win32 Professional V6.0 600 Tag
- **WAP-1200-W60** WebAccess Win32 Professional V6.0 1200 Tag
- **WAP-5000-W60** WebAccess Win32 Professional V6.0 5000 Tag
- **WAP-20K-W60** WebAccess Win32 Professional V6.0 20K Tag
- **WAP-99K-W60E** WebAccess Win32 Professional V6.0 99K Tag
- **WAP-BEMS** Building Energy Management System Software



KW MULTIPROG®

IEC-61131-3 SoftLogic Control Software



Features

- IEC-61131-3 Programming languages
- Intuitive programming with a clear project structure
- Cross-compiling: FBD, LD and IL can be cross-compiled to each other
- Multi user functionality shortens programming time
- Management of distributed controls
- Network variables: Easy and powerful configuration of distributed communication
- Powerful debugging tools: Online changes, PLC simulation, overwriting & forcing, breakpoints, watch windows & recipes, logic analyzer, and cross reference
- Online program download



Introduction

Advantech's Programmable Automation Controller (PAC) solution leverages KW Software's Multiprog and ProConOS as the single developing tool and SoftLogic control kernel. It requires only a one-time design, and then can easily leverage the control know-how into different control platforms to meet versatile automation projects needs. KW SoftLogic also creates single tagging database and HMI Software, such as Advantech Studio, shares the same tagging database by OPC server under Windows CE operating system. All the features can help users to save the visible and invisible cost.

MULTIPROG® supports all IEC 61131-3 programming languages. Depending on the task to be handled, your experience and company standards, you may choose one of the five standardized programming languages. The use of MULTIPROG offers you many advantages. Our long-term experience in the automation industry guarantees you a sophisticated software product.

Specifications

Hardware Requirements

Device	Minimum	Recommended
IBM compatible PC with Pentium Processor	200 MHz	350 MHz
System RAM	64 MB	128 MB
Hard Disk	60 MB free memory space	
CD-ROM drive		
VGA Monitor Color Settings	256 colors	True color
Resolution	800 x 600	1024 x 768
RS-232 interface	Optional	
Mouse	Recommended	

Advantech Hardware Supported

- APAX-5000 Series
- ADAM-5550KW Series
- ADAM-5510KW Series

Software Requirements

- Microsoft® Windows NT 4.0 SP5 or Windows 2000/XP
- Microsoft Internet Explorer 5.02 or above

IEC-61131-3 Programming Languages

- Instruction List (IL)
- Structured Text (ST)
- Function Block Diagram (FBD)
- Ladder Diagram (LD)
- Sequential Function Chart (SFC)
- All programming languages can be mixed within one project

Ordering Information

- MPROG-ADV46E KW Multiprog Advanced v4.6 (64 kbyte I/O)
- MPROG-BAS46E KW Multiprog Basic v4.6 (128 bytes I/O)

- 1 Automation Software
- 2 Touch Panel PC
- 3 Industrial Panel PC
- 4 Industrial Monitor
- 5 Fanless Box PC
- 6 Ethernet Switch
- 7 Device Server
- 8 Serial Comm. Card
- 9 DAQ
- 10 Signal Conditioning
- 11 USB DAQ
- 12 Motion Control I/O
- 13 PC-based Controller
- 14 PAC
- 15 RS-485 I/O
- 16 Ethernet I/O
- 17 Building Automation
- 18 Video Surveillance

ADAMView

HMI Software for Data Acquisition



Features

- Complete software package
- Graphic panel configuration
- Modularized and prioritized task design
- BasicScript scripting language to customize your applications
- Easy connection with ADAM I/O series



Introduction

We have noticed that many users apply the ADAM Data Acquisition modules in small base projects. Because the cost ran higher than system hardware, Human Machine Interface software were never suitable for these projects. ADAMView, the ADAM Data Acquisition software, is especially designed for low-volume ADAM projects. It provides a 150 physical points database, ADAM Drivers, for all monitoring and control functions. In brief, ADAMView is a cost-effective and simple SCADA software for the ADAM I/O series.

Specifications

System Requirements

- **CPU** Intel® Pentium® 200 MHz or higher
- **RAM** 64 MB Minimum
- **Disk Space** 20 MB Minimum
- **Display** VGA Resolution or Higher
- **Microsoft Compatible Mouse**
- **OS** Microsoft® Windows® 98, Windows NT 4.0 SP4 or above, Windows 2000, Window XP

Supported Hardware

- ADAM-4000/5000 Series Modules: Link through DLL Driver (Device Manager)

Feature Details

Complete Software Package

ADAMView takes advantage of Microsoft's Windows graphical interface, offering fast and intuitive configuration for human-machine interface and data acquisition applications. This application software combines easy-to-use graphical development and the flexibility of BasicScript, a powerful programming tool. With ADAMView, you can easily design both simple and complex applications, such as factory processes and utility monitoring, Lab testing, or environmental monitoring.

Graphical Panel Configuration

ADAMView provides a wide variety of graphical wizards, allowing users to quickly create an intuitive operator interface. Built-in display objects include bar graph, button, indicator, real time/historical trending, knob, gauge, slider, imported bitmap, numeric display and control.

Modularized and Prioritized Task Design

ADAMView development environment allows you to decompose your system into several smaller modules or tasks. The modular design is very useful to develop, and facilitate large and complicated system maintenance. Each module or task has its own properties, such as scan rate, start/stop method, and priority etc. With 32-bit Windows' multi-tasking capability, all tasks run simultaneously. Moreover, ADAMView software allows you to prioritize your tasks to increase overall performance.

BasicScript Scripting Language to Customize Your Applications

ADAMView is easy to use. It fully integrates BasicScript language in its kernel to meet your specific needs. Over 600 commands are available to perform almost any function you can imagine, including calculations, reading and writing files, DDE, and ODBC. It allows you to access and share data with other applications, such as Microsoft Access and Microsoft Excel. With BasicScript scripting language, you can reuse existing code and build your applications faster and easier.

Easy Connection with ADAM I/O Series

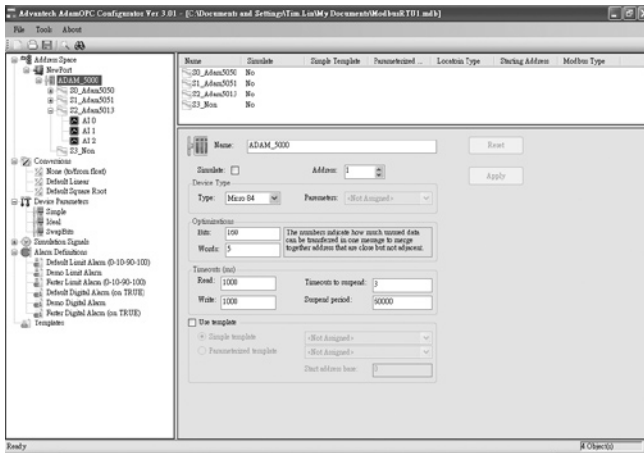
Once you install ADAMView software, you can immediately connect with ADAM-4000/5000 I/O as a complete Data Acquisition System. Current ADAM users can apply direct driver to access all ADAM-4000 modules and ADAM-5000/485 I/O system.

Ordering Information

- **PCLS-ADAMVIEW32** ADAMView Data Acquisition Software

OPC Server

OPC Server for ADAM & Modbus Devices



Features

- Supports Microsoft Windows XP/2000/NT/98
- Supports Advantech ASCII, MODBUS/RTU, and MODBUS/TCP protocol
- Compliant with the latest OPC Data Access 1.0, 2.04 and 3.0 standards
- Compliant with the latest OPC Alarm and Events 1.0 and 1.2 standards
- OPC DA and AE Client for rapid testing of your OPC data connections



Introduction

The Industrial Automation Group of Advantech introduces a standardized interface for industrial device servers, the OPC (OLE for process control) Server. An OPC server provides devices, such as an I/O device, to communicate with a wide range of HMI/SCADA software packages residing on a host. Any software system with OPC client capabilities can access the Advantech OPC server drivers.

Key Features of the OPC Servers

- Supports Advantech ASCII, MODBUS/RTU, and MODBUS/TCP protocol.
- Compliant with the latest OPC Data Access 1.0, 2.04 and 3.0 standards.
 - Compliant with the latest OPC Alarm and Events 1.0 and 1.2 standards.
 - Built-in OPC tag simulation and value conversion.
 - Wizards to create OPC Server tags about ADAM series quickly.
- Compatible with OPC client compliant application software.
- Provides OPC custom interface.
- Online configuration capability; add new signals and tags during runtime.
- Tag Multiplier let you create tags quickly.
- OPC DA and AE Client for rapid testing of your OPC data connections.

Specifications

Supported Hardware

- All ADAM-4000 series modules
- All ADAM-5000 series modules
- All ADAM-6000 series modules

Ordering Information

- **PCLS-OPC/ADM30** OPC Server for ADAM ASCII protocol
- **PCLS-OPC/MTP30** OPC Server for Modbus/TCP protocol
- **PCLS-OPC/RTU30** OPC Server for Modbus/RTU protocol

ActiveDAQ Pro

ActiveX Control-based Software for Data Acquisition



Features

- Graphic user interface control components
- Supports all Advantech DAQ devices with high speed functions
- Easy-to-use property sheet interface for configuring controls
- Independent operation of controls
- Uses optional lists instead of direct input
- Default settings for immediate execution
- Properties and parameters are chosen automatically
- Parameter check-up and correction
- Better defined error messages and diagnostic guide
- Supports all widely known development platforms



Introduction

ActiveDAQ Pro is a collection of ActiveX controls for performing I/O operations within any compatible ActiveX control container, such as Visual Basic, Delphi, etc. You can easily perform the I/O operations through properties, events and methods. With ActiveDAQ Pro, you can perform versatile I/O operations to control your Advantech devices.

Graphic User Interface Control Components

Advantech ActiveDAQ Pro GUI control collection consists of abundant of graphic user interface (GUI) control components, which enable users to conveniently and quickly build graph display modules for data acquisition so as to supervise the changing status of the object. ActiveDAQ Pro GUI control collection also helps users easily develop prototype vision applications in an interactive environment without programming.

Supports All Advantech DAQ Devices with High Speed Functions

ActiveDAQ Pro now fully supports all Advantech DAQ cards and functions with complete high speed data acquisition, including AI (analog input), AO (analog output), Digital I/O and counter cards. These high speed functions are preformed by interrupt and DMA data transfer.

Straightforward User Interface

The new version has become less-hardware dependent and it has relied more on intuition during the user interface. During the redesigned process, the target was to decrease the development difficulties. It has become easier for both entry level and advanced level users to manage.

Supports All Widely Known Development Platforms

ActiveDAQ Pro supports Microsoft Windows 2000 and Windows XP operation system. As with the previous version, ActiveDAQ 1.6x, it continues to support all widely known development platforms based on ActiveX technology. These platforms include Microsoft Visual Basic, Visual C++, Visual Basic.Net, Visual C#, Borland C++ Builder and Delphi.

System Requirements

- PC using at least a 266 MHz or higher microprocessor
- Microsoft Windows 2000/ XP/ Vista
- VGA compatible graphics card, supporting at least 256 colors
- Minimum 64 MB of RAM
- 74 MB of free local hard disk space
- One CD-ROM driver

Ordering Information

- **PCLS-ADPSTD** ActiveX Control-based Software for DAQ

- 1 Automation Software
- 2 Touch Panel PC
- 3 Industrial Panel PC
- 4 Industrial Monitor
- 5 Fanless Box PC
- 6 Ethernet Switch
- 7 Device Server
- 8 Serial Comm. Card
- 9 DAQ
- 10 Signal Conditioning
- 11 USB DAQ
- 12 Motion Control I/O
- 13 PC-based Controller
- 14 PAC
- 15 RS-485 I/O
- 16 Ethernet I/O
- 17 Building Automation
- 18 Video Surveillance

DiagAnywhere

Remote Maintenance Software

Features

- Remote Monitor Function
- Remote Control Function
- Remote Screen Snapshot
- Remote Screen Recording
- File Transfer Function
- Windows-based Authentication
- Favorite Devices Grouping Function

Introduction

The “DiagAnywhere”, an abbreviation of “Diagnose Anywhere”, is remote maintenance software for remotely monitoring and controlling Advantech TPC, UNO and ADAM devices with Windows-based operating systems. Currently, the DiagAnywhere includes the utility on client side and the server on the target devices. The supported platforms include Windows XP, Windows XP Embedded, Windows CE.NET 4.2, and Windows CE 5.0. This useful software can help users to achieve major remote maintenance tasks including remote monitoring and control, remote screen snapshot and recording, file upload and download. Windows-based authentication is also supported for security concern.

Remote Monitoring and Control

DiagAnywhere can monitor up to 16 target devices simultaneously. The total refresh rate of the screens can be optimized manually. The other supported functions including remote control function can be operated under only one target device is selected.

Remote Screen Snapshot and Recording

The remote screen snapshot function and remote screen recording function can be utilized for recording the important screen snapshots so the major symptoms of the target device can be analyzed efficiently. These functions are very helpful to the communication between field operators and technical support engineers when they need to investigate the problem remotely.

File Upload and Download

Remote maintenance always needs the functions of uploading files to and downloading files from target devices. DiagAnywhere adopts popular user interfaces of FTP client so users can operate the upload and download function easily.

Windows Based Authentication

DiagAnywhere adopts Windows-based authentication which comes with Windows operating system. Only the account of administrator can logon to the target devices. For security consideration, the server can accept only one connection from the client utility at a time and other connection will be rejected if there is a connection alive.

Favorite Devices Grouping Function

The selected target devices can be grouped under favorite groups. This function can help users to organize the device groups and save the maintenance time.

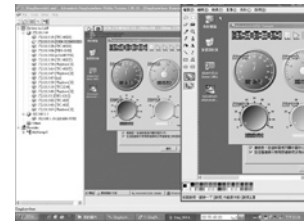
Monitoring 16 Target Devices



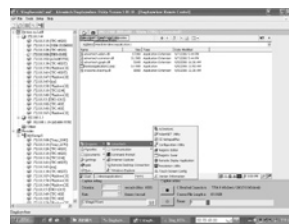
Controlling Target Devices



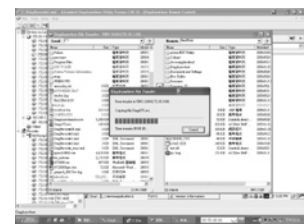
Remote Screen Snapshot



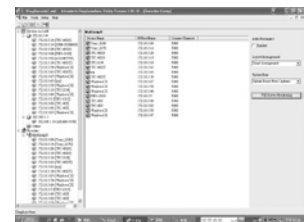
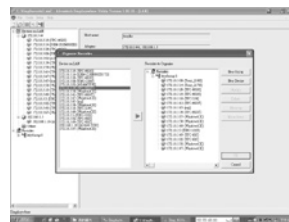
Remote Screen Recording



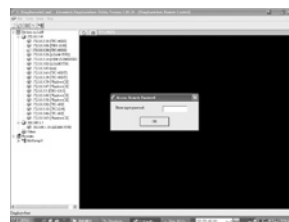
File Transfer



Device Grouping



Windows-based Authentication



System Requirements

- **CPU** Intel Pentium processor 200 MHz or higher
- **RAM** 128 MB memory (Minimum)
- **Disk Space** 5 MB (Minimum)
- **Display** VGA resolution or higher
- **OS** Microsoft Windows 98, SE, Windows 4.0 (SP6 above), Windows 2000/XP
- **Win32 platform** Microsoft .NET Framework installed 1.1 or Higher
- **WinCE platform** Microsoft .NET Compact Framework installed
- **Product Supported** ADAM with Windows OS, UNO, TPC, APAX, AMAX

Ordering Information

- **PCLS-DIAGAW10** Remote Maintenance Software