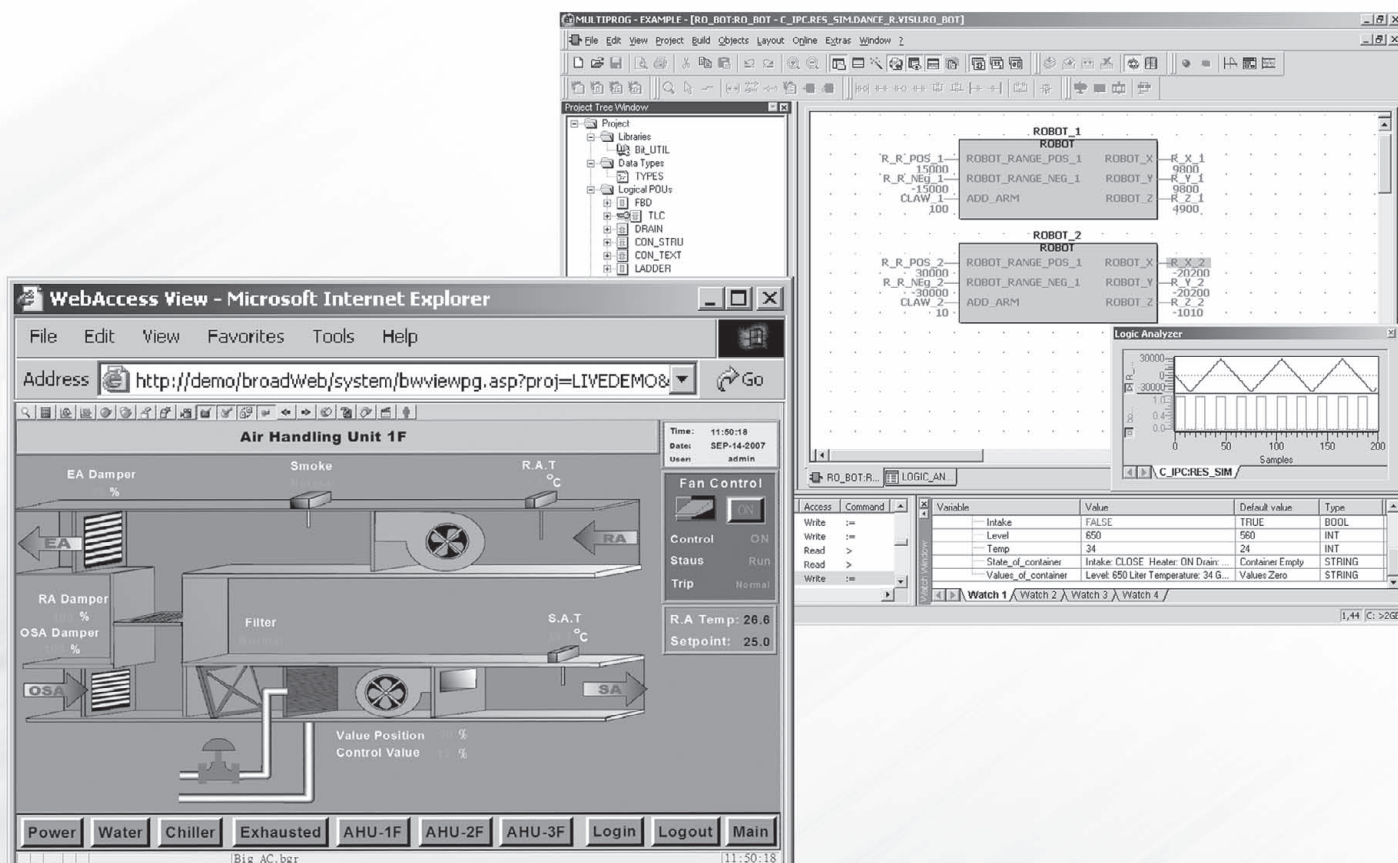


Automation Software

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To view all of Advantech's Automation Software, please visit www.advantech.com/products.



Advantech WebAccess

Browser-based HMI/SCADA Software



Features

- View, control and configure system remotely over an intranet or the Internet using ordinary web browser.
- Mobile client support for: iOS, Android and Windows mobile devices
- Supports open standard programming: TCL, JavaScript and VB script
- Open real-time data connectivity: OPC, Modbus, BACnet, DDE Server
- Open offline data connectivity: SQL Server, Oracle, MySQL, MS Access database
- Full LonWorks LNS and BACnet support
- Distributed SCADA architecture with central database server
- Redundant SCADA, ports and devices
- Global access to alarms and data
- SMS alarm notification, e-mail alarm, report and messages
- Integrated video and audio
- Scalable system architecture, same database, graphics for Windows CE, embedded XP and Windows
- Multi-layer inter-operable SCADA nodes

Introduction

Advantech WebAccess is a 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 built around the latest internet technologies, the basic components are:

1. SCADA Node: it communicates in real-time with automation equipment and controls the equipment via serial, Ethernet or proprietary communication via multiple built-in device drivers. It not only runs local controls and monitoring but also provides real-time data to all remote clients.
2. Project Node: it is the development platform for WebAccess and is a web server for all clients to connect to the development project or remotely monitor and control the system. All system configuration, project database files and graphics are stored here.
3. Client node: through the ActiveX control inside Microsoft Internet Explorer, it monitors and controls the SCADA Node. The client connects to the Project Node get the address of the SCADA Node, then communicates directly with the SCADA Node using proprietary communications over a TCP/IP connection. Data is displayed in real-time with dynamically animated graphics along with real-time, historical trending and alarm information. Users can acknowledge alarms and change set-points, status and other data.
4. Mobile Client: the Mobile Client interface is intended for use with smart mobile devices, such as iOS, Android and Windows mobile devices. In the mobile client users can browse graphics, data-log trends and tag information in real-time. Set value to tag or acknowledge alarms can also be supported via an intuitive interface.

Feature Details

View and Control from a Remote Web Browser

Using a standard web browser, users can view and control automation equipment used in industrial, manufacturing, process and building automation systems. Field data and alarms are delivered in real-time to remotely browse using animated graphics and sound.

Powerful Remote Diagnose and Maintenance Functionality

The unique feature, which distinguishes WebAccess from the competition, is that all engineering works, such as: database configuration, graphics drawing and system management (download, start and restart remote nodes) is performed using a web browser. If any troubleshooting is needed, no matter where the engineer is, he can use the internet to operate the system remotely. This can significantly increase the efficiency of maintenance operations and reduce maintenance costs.

Full Scalability

A scalable system architecture allows users to run the same database and graphics on Windows CE, Embedded XP and Windows. When a system needs to be upgraded, just download the database to a new machine and get online immediately. A WebAccess SCADA node can be another SCADA node's device with alarm and log synchronized option. So the field's I/O data can be collected in local node and forwarded to regional data center then further transferred to central management.

Vector-based Graphics

WebAccess features vector-based graphics. Regardless of engineer and user computer resolution, WebAccess graphics can be built at any resolution and displayed at any resolution. Vector-based graphics scale infinitely, providing smaller file and data size for fast downloading and data updates.

Rich Building Automation Support

WebAccess supports all open systems in building automation industry. LonWorks devices can be accessed through LNS database, iLon and B-Track. BACnet MS/TP and IP are also supported. Modbus protocol for most of power meters is also a standard driver of WebAccess. In WebAccess Scheduler users can schedule on/off, temperature set points, message base on time-of-day, day-of week and holiday setting.

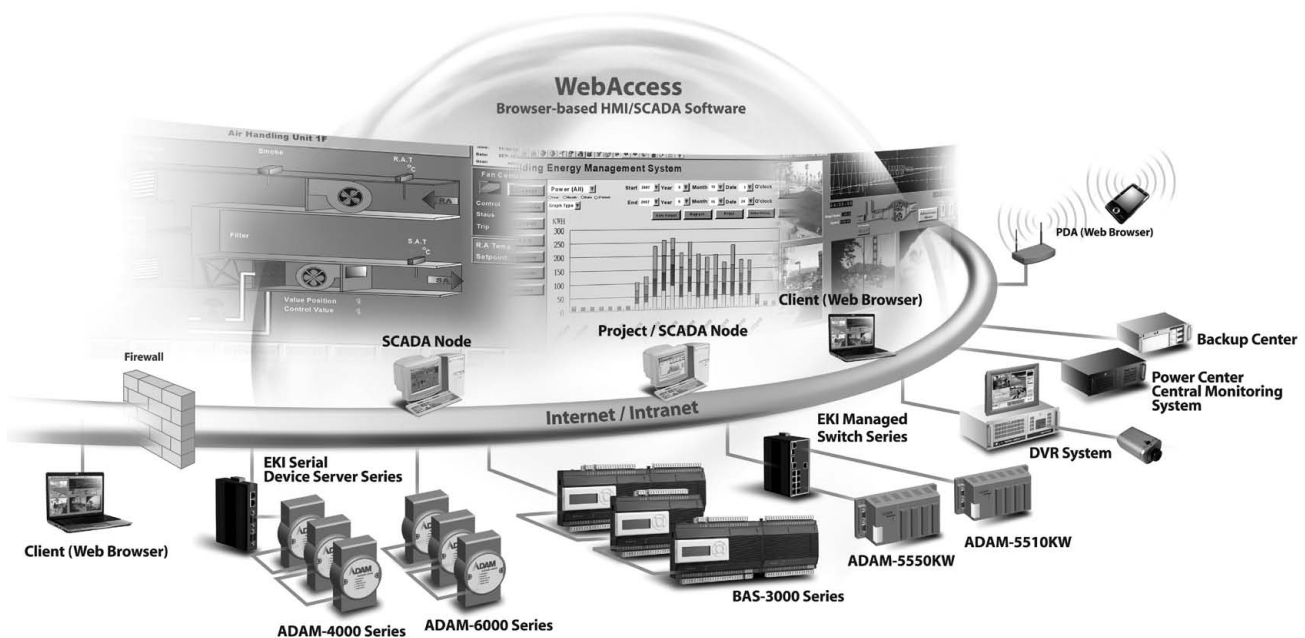
Open Data Connectivity

Advantech Webaccess exchanges online data with 3rd party software in real-time by supporting OPC UA/DA, DDE, Modbus and BACnet Server/Client. It supports SQL, Oracle, MySQL and MS Access for offline data sharing.

Distributed Architecture

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

1	Motion Control
2	Hazardous Location
3	Energy Automation
4	Building Automation Systems
5	Automation Software
6	Operator Panels
7	Automation Panel PCs
8	Industrial Monitors
9	Industrial Ethernet
10	Device Servers & Gateways
11	Serial Communication Cards
12	Embedded Auto. Computers
13	PACs
14	M2M I/O
15	Distributed Nano Controllers
16	RS-485 I/O
17	Ethernet I/O
18	DAQ Boards



Central Database Server

The Project Node is a centralized database server of configuration data. A copy of the database and graphics of all SCADA nodes is kept on the Project Node. The historical data is also stored in the database in project node.

Redundant SCADA, COM Ports and Devices

Advantech WebAccess assures continuous, reliable communication to automation equipment. WebAccess Backup node activates when the Primary node is down. WebAccess device drivers communicate with backup ports or devices if the primary connection is lost and automatically restores to the primary item when it becomes available.

Historical and Real-Time Trending, Data Logging and Centralized Logs

12 Tags are added to a Trend display without losing the history of the other tags. Real-time data, alarms, and operator actions from all SCADA nodes can be logged to a central ODBC database.

Scheduled Reports

A "Fill-in-the-blanks" reporting package gives average, maximum, minimum, last and totals with summary for user-defined shifts, daily and monthly reports. These reports can be automatically generated and printed or sent to users by e-mail. Users can also query reports from a remote browser anywhere, anytime.

Event Log and Action

An event can trigger data before and after the event to be logged or scripts to be executed.

Enhanced Security

The Area of Responsibility concept restricts changes to data. Users are assigned privileges to restrict display and data access, monitor who connects to the project and SCADA nodes via the web and the changes made and define the accessibility of graphics and operations.

Ample Driver Support

WebAccess supports hundreds of devices. In addition to Advantech I/Os and controllers, WebAccess also supports all major PLCs, controllers and I/Os, like Allen Bradley, Siemens, LonWorks, Mitsubishi, Beckhoff, Yokogawa etc. WebAccess can easily integrate all devices in one SCADA. For a complete listing of WebAccess drivers, refer to WebAccess.advantech.com.

Gateway with WebAccess Installed

With open real-time data connectivity and hundreds of device drivers, WebAccess can integrate all devices and WebAccess-configured hardware becomes the perfect protocol gateway or data concentrator. With intuitive setup, WebAccess converts field device data to Modbus, OPC DA, OPC UA or BACnet protocol, so other software, such as ERP and MES can gain access without knowing the field device protocol. WebLink, a Windows CE Version of WebAccess built in to Advantech's robust hardware platform, can be used as a high performance, low cost data gateway solution.

Ordering Information

■ WebAccess-70-AE	WebAccess V7.0 Software Suit Package
■ 968W0070P0	WebAccess 150 tags control file (Professional)
■ 968W0070P1	WebAccess 300 tags control file (Professional)
■ 968W0070P2	WebAccess 600 tags control file (Professional)
■ 968W0070P3	WebAccess 1200 tags control file (Professional)
■ 968W0070P4	WebAccess 5000 tags control file (Professional)
■ 968W0070P5	WebAccess 20K tags control file (Professional)
■ 968W0070P6	WebAccess 99K tags control file (Professional)

Note: Users need to purchase WebAccess-70-AE and 968W0070Px together, for example: WebAccess-70-AE+968W0070P0

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. It also supports the use of live Video cameras that are IP-enabled via ActiveX control, Windows Media Player, JPEG and other formats supported by Microsoft 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 also supports push button key macros to easily call up video cameras and 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 and helps save energy costs whilst also providing 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

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 a 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 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 PLCs.

Differences between WebAccess Win32 and WinCE Versions

Software Specification	Win32 Professional	WinCE
I/O Tag Number	150/300/600/1200/5000/20K/99K	150/600 (WebView) 600 (WebLink)
Internal Tag Number	150/300/600/1200/5000/20K/99K	150/600 (WebView) 600 (WebLink)
Concurrent Web Client	1024	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
Device Redundancy	YES	NO

Advantech WebAccess Express

Automated Graphical Remote Control Application Program



NEW

Features

- Supports ADAM-4000/6000 series
- Historical and real-time trend
- Auto-detection modules in the system
- HTML historical data export
- Supports one web browser client

Introduction

Advantech WebAccess Express is an automated graphical remote control application program. It automatically discovers all the ADAM modules on the network and serial ports, generates a database and brings real-time data online with prebuilt monitoring graphics. Users can easily get real-time ADAM I/O devices data from remote smart devices with just one click. And what's more it's free with 75 ADAM I/O points.

Feature Details

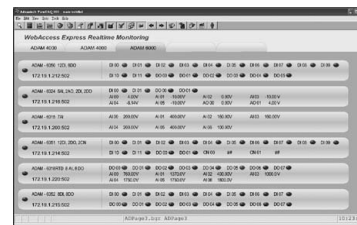
Auto-discover and Deliver Technology

Using state of the art auto-discover technology, WebAccess Express detects all the available communication ports on the machine and discover all the online serial ADAM devices. From Ethernet ports, WebAccess Express also finds all the online ADAM-6000 devices. Automation technology does not stop here, monitoring database is generated from the information gathered from discovered devices. WebAccess Express data engine automatically start to poll real-time data from all the devices.



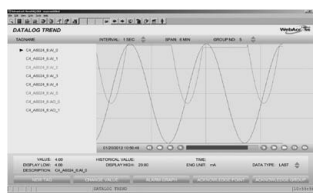
Auto-deposit Functionality

All the analog data are automatically deposited to a historical data log. Users can view data in the Data Log Trend group page, each group contains an ADAM module. The data in the trend page can be exported to HTML and then exported to Excel for further analysis. The trend can also be viewed in the mobile device application.



Auto-display over Internet and on Smart Mobile Devices

All real-time data is delivered to the computer and displayed in preconfigured graphics, which are systematically organized by the comport and device for easy monitoring. By double clicking the analog output or digital output point, a dialog box pops up letting users change the analog value or toggle the digital output. Analog data can also be viewed in trend pages. If an IIS server is installed, the data can also be viewed from remote computers or from a mobile device. Search for "WebAccess mobile" from App Store for iPhone, iPad or from Google Play for Andriod devices.



WebAccess Express Support List

ADAM-4000 Series		ADAM-6000 Series	
ADAM-4015	ADAM-4055	ADAM-6015	ADAM-6052
ADAM-4015T	ADAM-4068	ADAM-6017	ADAM-6060
ADAM-4017+	ADAM-4069	ADAM-6018	ADAM-6066
ADAM-4018+	ADAM-4117	ADAM-6022	
ADAM-4019+	ADAM-4118	ADAM-6024	
ADAM-4024	ADAM-4150	ADAM-6050	
ADAM-4051	ADAM-4168	ADAM-6051	

WebAccess Express Download Linkage



<http://webaccess.advantech.com/downloads.php>

- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
- 17 Ethernet I/O
- 18 DAQ Boards

WebOP Designer

HMI Runtime Development Software



Software Features

- Allows users to manage multiple HMI applications in one project
- Allows users to switch multi-language UI dynamically, with Unicode and multilingual screen text supported
- Provides password protection of designs, macros and upload/download operations
- Supports vertical, horizontal screen displays
- Enables one design to fit all HMI models
- Provides index registers for modifying device addresses at runtime
- Collects data from many devices with various methods
- Supports various data acquisition and trend presentation
- Operation log helps the review and investigation of important events
- Allows to download the runtime data using serial port, Ethernet port, USB client port at HMI and Micro-SD
- Allows to use the USB Memory Sticker for the trouble-free update of the application
- Supports over 300 industrial communication protocols such as SIMATIC S7-1200, BACnet MSTP/BACnet IP etc. and the driver list is growing

Introduction

WebOP Designer is powerful yet intuitive software to create total solutions for WebOP series Human Machine Interface products. WebOP Designer is proven in many application fields and is an easy to use integrated development tool. The features include solution-oriented screen objects, high-end vector graphics, Windows fonts for multi-language applications, recipes, alarms, data loggers and operation logging. WebOP Designer also includes online/offline simulation and other utility programs such as Data Transfer Helper (DTH); recipes editors and text editors.

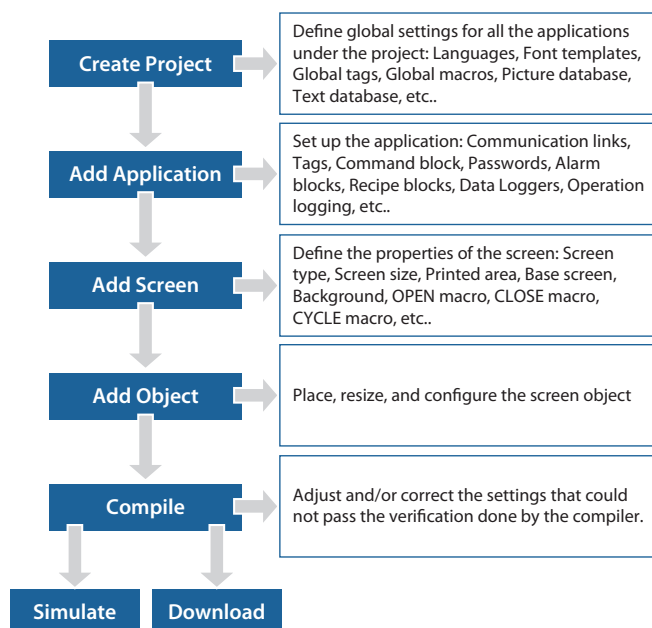
WebOP runtime, a part of WebOP Designer, guarantees reliability and performance of WebOP Series HMI because of the minimum system overhead, high communication data rates, sub-second screen switching, and 24/7 operation. Our fast response software team adds new functions, communication drivers and solutions to the software all the time to meet dynamic needs.

System Requirements

Minimum OS Requirements:

- Windows 2000 SP4
- Windows XP SP2 (for all flavors of XP such as Home, Media Center, Tablet PC)
- Windows Server 2003
- Windows Vista
- Windows 7

Project Development Steps



Feature Details

Global Settings and Resources Sharable to all Applications of the Same Project

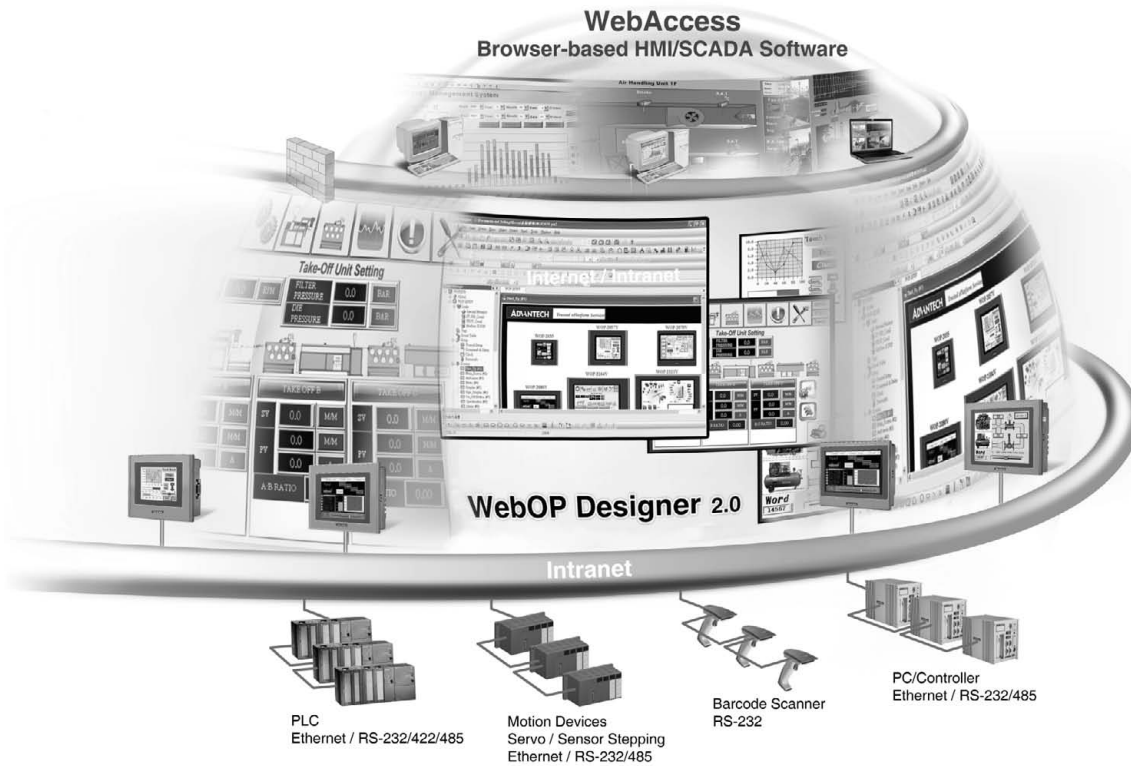
- Multi-languages (up to 10 languages)
- Font templates (up to 20 fonts for each language, TrueType fonts supported)
- Picture database (BMP, JPG, GIF, WMF), Sound database (WAV), Text Database
- Global Tags
- Global Macros

Plenty of Solution-oriented Screen Objects

- For common HMI needs:
Buttons, Lamps, Message displays, Numeric displays, Numeric entries, Character displays, Character entries, Time displays, Date displays, Bar Graphs, Meters, etc.
- For animation:
Pictures displays, GIF displays, Animated graphics, Dynamic rectangles, Dynamic circles, Pipelines, Circular bar graph, etc. Color of basic graphic objects (text, lines, rectangles, circles, etc.) changeable.
Shape and color of buttons and lamps changeable.
- For advanced functions:
Line chart, Scatter chart, Recipe selector, Recipe table, Alarm history display, Active alarm display, Alarm count display, Historic trend graph, Historic data table, Historic event table, Historic line chart, Operation log display, Sub-link table, etc.

Communication Links

The WebOP series HMI products can have at most 4 built-in communication ports. The WebOP Designer software allows you to create up to 4-links and 255 sub-links for one application. More than 300 communication drivers allow 1-to-N (one panel to a wide variety of industrial devices) or N-to-1 (multiple panels to one device) connections.



One Design for all Models

The WebOP Designer software provides the auto resizing function to resize all the objects so they can fit the new screen size when you change the HMI model. It makes the HMI model changes done in seconds.

Easy to Accumulate/Reuse Design Achievements

- Import/Export Function
The WebOP Designer software provides the simple method for importing and exporting data between applications or projects. The data includes Language setting, Font templates, Pictures, Sounds, Text, Tags, Macros, Application, Screen, Alarm messages, Control block and status word settings, etc.
- Object Library
The object library makes configuring, managing and sharing user-defined objects easier. It contains default objects, common objects, object groups and global objects.

Enhanced Intellectual Property (IP) Protection

WebOP Designer strengthens the IP protection by password with different levels. You can set the password to protect project, password table and global macros. You can also use up to 9 levels of passwords to secure the operations and restrict access to the objects. You can choose to prohibit uploading and copying of the panel application stored in the HMI unit.

Recipe

Distinguish from the conventional recipe operations, the WebOP Designer provides complete solutions to deal with recipes:

- Supports up to 16 recipe blocks
- Provides recipe selector for selecting a recipe and recipe table for displaying and modifying recipe data at runtime
- Provides Recipe Editor, an independent executable program, to view and edit recipe data saved in a binary file on PC
- Able to notify a bit when the recipe operations are performed successfully to prevent data loss

Data Collected into a CSV/TXT file

Allows to save/load collected data to/from CSV or TXT files. Those two standard file formats allow the easy manipulation data on PC.

Alarm

The WebOP Designer supports up to 16 discrete alarm blocks and up to 16 analog alarm blocks. It provides alarm history display, active alarm display, alarm count display and alarm marquee to display alarms in the application.

Macros, an easy-to-learn language with simple syntax

Application developers may program their own solutions using the macro commands for:

- Operations that are not supported in a standard object or feature of WebOP Designer
- Sequential, Interactive, Conditional and File operations
- Non-linear data conversions
- Data exchange between two controllers
- Simple communication drivers
- Hard-to-implement tasks in controllers
- Offloading the burden of controllers to boost their performance

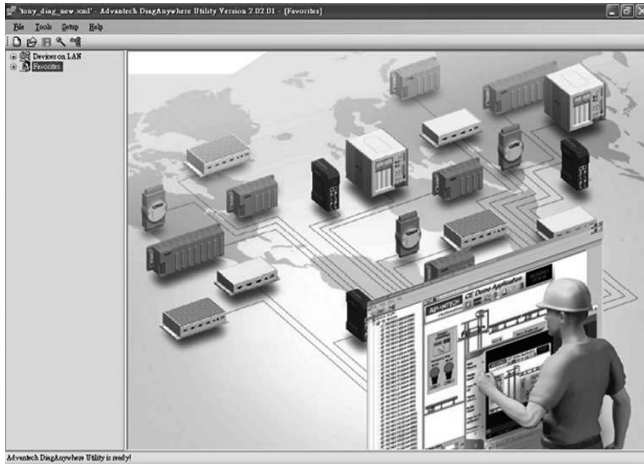
Simplified Architecture

- Real time WYSIWYG screen editor, 8 toolbars and screen manager
- Screen overview that shows the relations among screens of the current application
- Link overview that shows the relations among links of the current application
- Object list that shows the screen objects and the associated I/O address of the current screen
- I/O list that shows all the I/O addresses of the project and their owners
- Compiler to verify, optimize, and build the designs
- Online/offline simulation for design verification
- Data Transfer Helper (DTH), an independent executable program, to help you get/update application data through serial port or Ethernet port
- Text Editor for editing all screen texts in multi-languages

1	Motion Control
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15	Distributed Nano Controllers
16	RS-485 I/O
17	Ethernet I/O
18	DAQ Boards

DiagAnywhere

Universal Perception and Instant Decision - Remote Maintenance Software



Features

- Remotely monitor up to 24 target devices
- Remote control shutdown and wake up
- Remote screen snapshot
- Health check of CPU/memory/temperature/voltage
- Remote screen recording
- File transfer function to save critical data and settings
- Windows-based authentication
- Favorite device grouping time synchronization
- Patent remote management for IPC

Introduction

"DiagAnywhere", an abbreviation of "Diagnose Anywhere", is remote maintenance software for remotely monitoring and controlling Advantech TPC, APAX, UNO and ADAM devices with Windows-based operating systems. Currently, DiagAnywhere includes the utility on the client side and the server on the target devices. The supported platforms include Windows XP, XP Embedded, Windows 7, Windows 2009, CE 5.0 and CE 6.0. 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 concerns.

Feature Details

Remote Monitoring and Control

DiagAnywhere can monitor up to 24 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

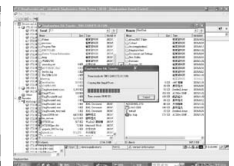
The selected target devices can be grouped under favorite groups. This function can help users to organize the device groups and save the maintenance time.



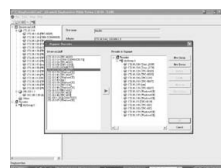
Remote Screen Snapshot



Remote Screen Recording



File Transfer



Device Grouping



Windows-based Authentication



Monitoring 24 Target Devices

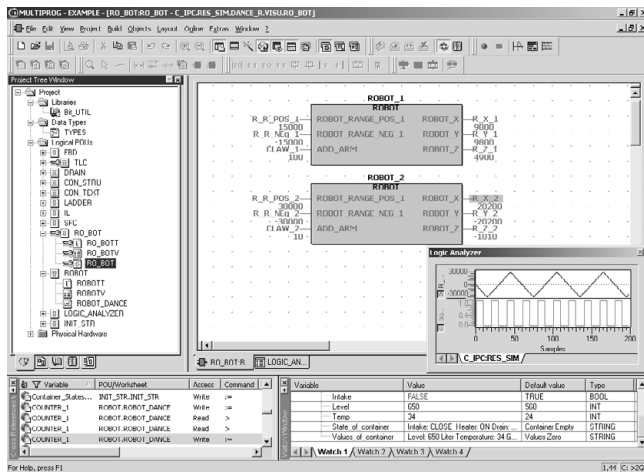
Controlling Target Devices

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** Windows XP, XP Embedded, Windows 7, Windows 2009, CE 5.0 and CE 6.0
- **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



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
- Download Change Function
- Advantech FBs Support (Auto-Tuning PID, Batch Control)

Introduction

Advantech's Programmable Automation Controllers (PAC) leverage KW-Software's Multiprog and ProConOS as a single development tool with the SoftLogic control kernel. Requiring only a one-time design, users 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 WebAccess and other 3rd party SCADA software, 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-6000 Series
- APAX-5000 Series
- APAX-55X0KW 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)*
- **MPROG-ADV46UE** Upgrade Ver. of KW Multiprog Advanced v4.6 (64 kbyte I/O)
- **MPROG-BAS46E** Upgrade Ver. of KW Multiprog Basic v4.6 (128 bytes I/O)
- **MPROG-PRO535E** KW Multiprog Pro v5.35 (128k bytes I/O, Win7 32-bit support)

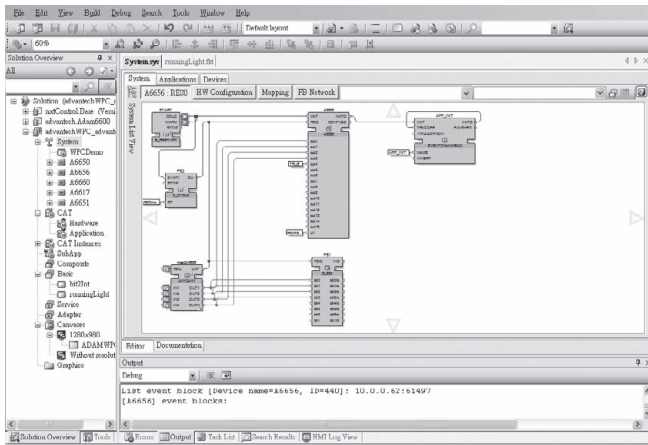
Notes:

Using MPROG-BAS46E Basic (128 Bytes I/O), programmer can leverage 1024 points DI/O (128 Bytes*8), or 32 (APAX and ADAM-5550KW series)/64 (ADAM-5510KW series) points AI/O, or mix of DI/O and AI/O

- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
- 13 PACs
- 14 M2M I/O
- 15 Distributed Nano Controllers
- 16 RS-485 I/O
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- 18 DAQ Boards

IDC Builder

IEC 61499 Function Block Development Tool for Advantech ADAM-6600 Products



Features

- IEC 61499 compliance
- Free of charge software for distributed control system design
- Block-oriented programming
- Integral ADAM-6600 base function block
- Plentiful function block library
- Diagnosis capability
- Project storage in standards-compliant XML
- Flexible design of execution control chart for basic function block
- Live simulation to view code execution (basic block only)

General IEC 61499 Standard Introduction

The IEC 61499, which was official launched by International Electrotechnical Commission (IEC) in 2005, defines an open architecture for the development of distributed control applications in Industrial Process Measurement and Control Systems (IPMCS). IEC 61499 integrates advanced software technologies, event-driven execution, component-based design and distributed control concept. Regarding distributed control systems, IEC 61499 architecture provides all the essential features such as encapsulation of semantics, portability, configurability and a holistic view of distributed applications. The IEC 61499 accomplishes these features above through Function Blocks which is basically extended from IEC 61131 standards and consists of a body with data inputs and outputs and of a head with event inputs and outputs.

IDC Builder (Intelligent Distributed Control Builder)

IDC Builder is an easy-to-use FREE software for designing distributed control systems. It has been developed to meet the requirements of systems with one or more different controllers based on the IEC 61499 standard and communication between the distributed controllers is established automatically. With this software, function block control logic can be simply integrated with ADAM-6600 series, using clever operating interface to reduce the complexity of the setting. The IDC builder is based on .NET technology and can therefore be extended without much effort. It allows the programming language Structure Text to create the control algorithm for the basic function block.

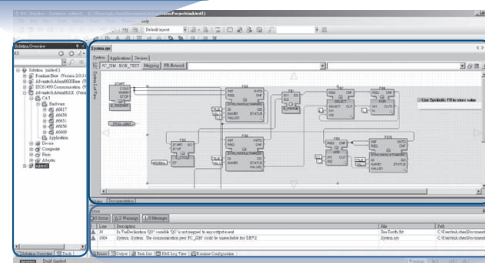
When using this software, customers participate in the development process of the product itself.

Extraction from the list of functions:

- Design of distributed control systems according to IEC 61499
- Design of dynamic visualizations
- Process linking through hardware CATs
- Diagnosis and maintenance also without any other engineering tool
- Automatic communication between distributed logic units
- Project storage in standards-compliant XML
- And much more...

Solution Overview

- Ready-to-use ADAM-6600 Function Block
- Versatile Function Block Library
- Flexible Project Development UI



Edit Zone

- Graphical System Architecture
- Switchable Working Environment
- Simulation for Multiple Devices In Single Window

Message Window

- System Operation Information
- Error and Debug message
- Run-time Configuration Tool

Specifications

System Requirement

- **CPU** 1G Hz (Windows XP)
- **Memory** 512 MB (1~2 GB is recommended)
- **XGA** 1024 x 768 16 Bit
(1280 x 1024 32 Bit is recommended)
- **Hard Disk Memory** 200 MB for installation
50 to 500 MB for engineering data of projects, depending on project size

Software Requirement

All Applications are 32-bit applications for Windows operating system as follows:

- MS Windows XP Professional SP2
- MS Windows Vista
- MS Windows 7

The engineering applications require a Microsoft .NET framework:

- for MS Windows XP/Vista/7, the .NET 3.5 is needed

The MS Internet Explorer 6.0 or higher version is assumed to be available for in all operating systems.

Supported Hardware

- ADAM-6600 Series: Distributed Nano Controllers

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 was not 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.

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 directly apply driver to access all ADAM-4000 modules and ADAM-5000/485 I/O system.

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 Modbus/RTU and ADAM-6000 Modbus/TCP Modules

Ordering Information

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

- 1 Motion Control
- 2 Hazardous Location
- 3 Energy Automation
- 4 Building Automation Systems
- 5 Automation Software
- 6 Operator Panels
- 7 Automation Panel PCs
- 8 Industrial Monitors
- 9 Industrial Ethernet
- 10 Device Servers & Gateways
- 11 Serial Communication Cards
- 12 Embedded Auto. Computers
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- 18 DAQ Boards

DAQNavi

Software Development Package for Advantech DAQ Products



Features

- Supports multiple operating systems including Windows (32-bit and 64-bit), Linux
- Supports common-used development environment including Visual C/C++, Borland C Builder, Visual Basic .NET, Visual C#, Delphi, Java, VB, LabVIEW
- Supports Advantech PCI Express, PCI, PC/104, PCI-104, USB DAQ devices
- Integrated utility environment (Advantech Navigator) for device functionality testing without programming
- Able to generate a simulator device in utility to program and run application without real hardware device
- Pre-defined scenario application examples with source code to shorten programming learning and development time
- Express VI and Polymorphic VIs for both beginner and advanced programming in LabVIEW environment
- Complete documentations and tutorials for hardware specifications, wiring, example code and SDK programming

Introduction

DAQNavi is a completed software package, for programmers to develop their application programs using Advantech DAQ boards or devices. This integrated software package includes drivers, SDK, tutorial and utility. With the user-friendly design, even the beginner can quickly get familiar with how to utilize DAQ hardware and write programs through the intuitive "Advantech Navigator" utility environment. Many example codes for different development environment dramatically decrease users' programming time and effort.

Feature Details

Multiple Operating System Support

DAQNavi supports many popular operating systems (OSs) used in automation applications. For different OSs, API functions will be the same, so users can simply install the driver without modifying their program again when migrating between two different OSs.

DAQNavi supports latest Windows 7/Vista/XP/Server (Both 32-bit and 64-bit).

Besides Windows operating system, Linux is famous for its openness and flexibility. DAQNavi software package also supports Linux OS distributions including Ubuntu, Fedora, Debian and, Susi. For other distributions, contact with Advantech local branch or dealer in your area, for more information.

.NET Support

DAQNavi offers a series of **.NET Component** objects, that you can benefit from platform-unified feature with the latest .NET technology. Users can simply drag and drop the .NET Components within .NET programming environment, such as Microsoft Visual C# and VB .NET. An intuitive window (called "DAQNavi Wizard") will pop-up, and user can perform all configurations by sequence. Then, related source code will be generated automatically. Programmers also can choose writing code manually with the .NET Component, to have a more flexible object calling. With Advantech CSCL technology, engineers can do the similar programming in Native environment such as Visual C++.

LabVIEW Support

LabVIEW is one popular graphical development environment used for measurement and automation. For LabVIEW user, DAQNavi offer two options for programming: **Express VI** and **Polymorphic VI**. DAQNavi Express VI for LabVIEW helps user quickly complete his LabVIEW without extra wiring. When the user drags the Express VI on LabVIEW Block Diagram, a pop-up intuitive wizard window will appear and user can perform hardware parameter configurations. After that, the programming is done. So it is similar to the .NET control used in Microsoft Visual Studio environment, suitable for programming beginners. As for the Polymorphic VI, users can use several VIs and wiring to build more complex program.

C++, Delphi, ActiveX and Java Support

DAQNavi also offers **C++ Class Library** (for VC++ and Borland C++ Builder) and **ActiveX** (for Visual Basic, Delphi and BCB) for Native programming environment with the same calling interface as .NET Class Library. With DAQNavi **Java Class Library**, user can develop Java program to across different platforms (including Windows and Linux) by means of Java engine.

Support Modules

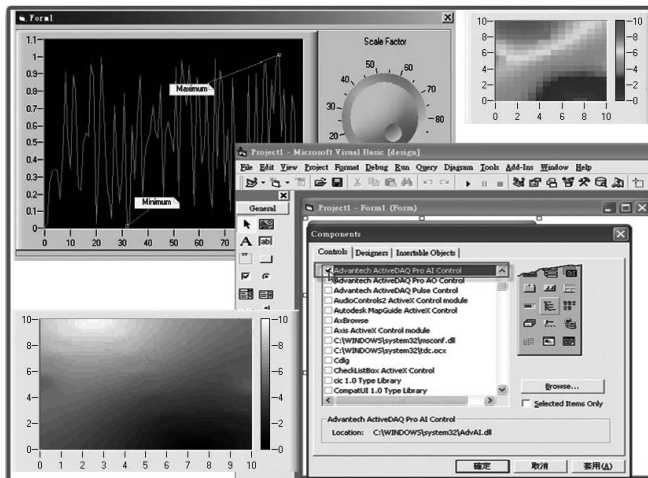
DAQNavi supports all Advantech PCI Express, PCI, PC-104, and PCI-104 cards, as well as all USB DAQ devices.

Note: For the latest information on applicable devices and OSs or new feature, visit <http://www.advantech.com/> and Search for "DAQNavi".

Intuitive Utility

DAQNavi delivers one integrated easy-to-use and powerful utility, called Advantech Navigator. Within the Navigator, engineers can quickly start configuration and function testing for all Advantech DAQ devices, without any programming. Related user manuals are also displayed in the same environment. Besides, to help shorten development time, Advantech offers a series of DAQ applications examples (called "scenarios" in the Advantech Navigator). So programmers can refer to its source code and develop their own application based on it, as well as the wiring information. Without a DAQ device at hand, engineers can generate a simulated device and use that device for programming and testing. Except device testing, Navigator also offers complete documentation to describe how to use DAQNavi SDK to program in various development environments. Moreover, a video tutorial for how to create an application program in a different development environment is available.

ActiveX Control-based Software for Data Acquisition



Features

- Graphical 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

A-DAQ 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 A-DAQ Pro, you can perform versatile I/O operations to control your Advantech devices.

Feature Details

Graphical User Interface Control Components

Advantech A-DAQ 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. A-DAQ 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

A-DAQ Pro 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

A-DAQ Pro support Microsoft Windows 2000/XP and Vista 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 LabView, 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



2 Hazardous Location

3 Energy Automation

4 Building Automation

5
Automation Software

6 Operator Panels

Automation Panel PC

8 Industrial Monitors

9 Industrial Ethernet

10

Device Servers & Gateways

12
Embedded Auto.

13

14
M2M I/O

15
Distributed Nano
Control

16
RS-485 I/O

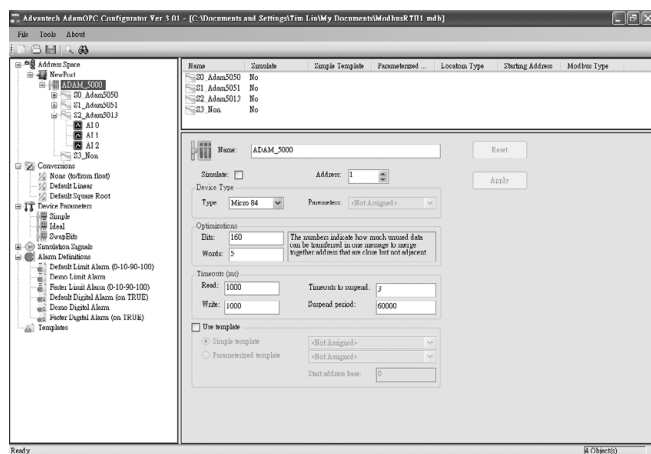
17

Ethernet I/O

18
DAQ Boards

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