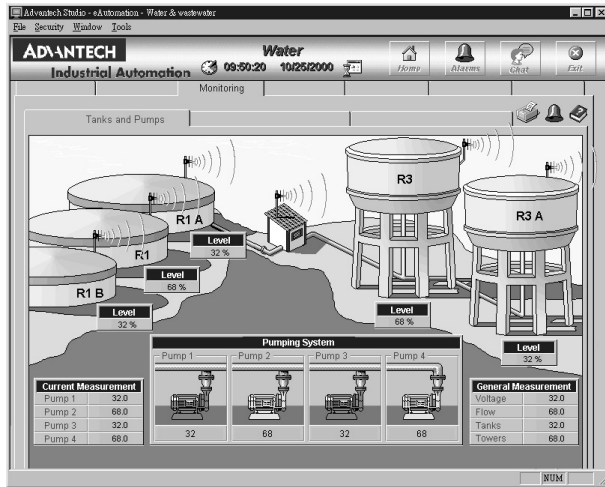# Advantech Studio

Web-enabled HMI/ SCADA Software

Features

- Publish real-time dynamic and animated graphic screens, trends, alarms, reports, and recipes to standard browsers
- Import and export recipes, reports and real-time data using the XML format
- Use the same development environment as applications running on Microsoft® Windows® NT/2000/XP and CE or on the Web
- Integrates seamlessly with your Windows desktop applications (such as Microsoft® Word and Excel)
- View multiple clients from one Web browser
- Multi-level security for applications, including use over Intranets and Internet.
- Conforms to industry standards such as Microsoft DNA, OPC, DDE, ODBC, XML, and ActiveX
- Software protection type: Softkey

Introduction

Advantech Studio is a powerful, integrated collection of automation tools that includes all the building blocks required to develop modern Human Machine Interfaces (HMIs), and Supervisory Control and Data Acquisition System (SCADA) applications that run on Windows NT/2000/XP and CE, or in an Internet / Intranet environment. A simple drag and drop, point and click development environment simplifies the most complex behavior of your live processes, but a flexible and easy-to-use scripting language is also available for special requirements. Advantech Studio is currently being used in nearly 2,000 installations worldwide.

Advantech Studio for Windows CE is based on Advantech Studio's full scale supervisory control and monitoring system, and has almost all of the same features, including an object-oriented database, math functions, report generation, archiving, alarms, batch recipes, and interfaces for PLCs, remote I/O and TCP/IP networking. In other words, Advantech Studio for Windows CE is a full-function supervisory control and monitoring system that fits in the palm of your hand or can be embedded in the chipset of a low-cost operator interface. Advantech Studio for Windows CE is software for complete supervisory control and process monitoring with an operator interface that is available for the Microsoft Windows CE operating system platform.

System Requirements

Product Series or Part Number		AS256-WR60	AS256-WD60	AS512-WR60	AS512-WD60	AS1500-WS60	AS1500-WR60
Type	S/W scope	Win32 Lite	Win32 Lite	Win32 Lite Plus	Win32 Lite Plus	Local Interface	Local Interface
	Authorized version	R	D	R	D	S	R
Overview	Development Tool OS	-	WinNT/2K/XP	-	WinNT/2K/XP	WinNT/2K/XP	-
	Runtime OS	WinNT/2K/XP	-	WinNT/2K/XP	-	WinNT/2K/XP	WinNT/2K/XP
Database	Application tags	up to 256	up to 256	up to 512	up to 512	up to 1,500	up to 1,500
Communicatation	Drivers	only 2	only 2	only 2	only 2	3 by default	3 by default

Product Series or Part Number		AS1500-WD60	AS4000-WS60	AS4000-WR60	AS1500-CD60	AS4000-CD60	WebLink/WebOIT
Type	S/W scope	Development	Operator Workstation	Operator Workstation	Development for CE Runtime	Development for CE Runtime	CE Runtime
	Authorized version	D	S	R	D	D	R
Overview	Development Tool OS	WinNT/2K/XP	WinNT/2K/XP	-	WinNT/2K/XP	WinNT/2K/XP	-
	Runtime OS	-	WinNT/2K/XP	WinNT/2K/XP	-	-	WinCE
Database	Application tags	up to 1,500	up to 4,000	up to 4,000	up to 1,500	up to 4,000	up to 4,000
Communicatation	Drivers	3 by default	5 by default	5 by default	only 3	up to 3	up to 3

Legend	
Supported	✓
D	Determined by Development version only
R	Determined by Runtime version only
S	Suit version includes Development and Runtime versions

Specifications

- **Pre-built Servers** — Web Server, FTP Server, Telnet Server, Remote Access Server (RAS)
- **HMI Functions** — 100+ built-in PLC drivers (up to 3 running simultaneously)
  - 8 simultaneous web clients
  - OPC Client and Server
  - Email (SMTP) Integration
  - Fully featured dynamic graphics with object library
  - Alarming, Trending, Reporting features
  - Scripting Language with 100+ standard functions
  - Recipes (ASCII and XML formats)
  - Remote project management including online editing
  - Multi-level security for use over Intranet and Internet

System Requirements: Development Environment

- Microsoft® Windows® XP, 2000, NT 4.0 service pack 4 or higher
- Min. 256 MB of RAM. (512 MB Recommended)
- 100 MB of free hard-disk space for installation
- CD-ROM drive (for installation only)

System Requirements: Runtime Environment

- Windows® CE 4.2
- Min. 64 MB of memory

or

- Microsoft® Windows® 2000/XP/NT 4.0 with Service Pack 4 or higher
- Min. 32 MB of RAM. (64 MB Recommended)
- Web Browser that supports ActiveX objects

Hardware Platforms Supported

- **WebOIT-60S** — Web-enabled Operator Interface Terminal with 5.7" QVGA STN Display
- **WebLink-2050** — Web-enabled Gateway with 16-ch Isolated DI/O and AStudio CE Runtime version (4000 tags)
- **WebLink-2053** — Web-enabled Gateway with Dual LAN and AStudio CE Runtime version (4000 tags)
- **WebLink-2059** — Web-enabled Gateway with 4 x RS-232/422/485 ports and AStudio CE Runtime version (4000 tags)
- **WebLink-2160** — Web-enabled Gateway with PC/104 extension and AStudio CE Runtime version (4000 tags)

Applications

- Remote Utility Management
- Building Automation
- Water and Wastewater Management
- Factory Automation
- Machine Builder

Ordering Information

Suit Version

- **AS1500-WS60** — AStudio Development Kit Professional Edition for Windows® XP/2000/NT (including DEV and RT Editions)
- **AS4000-WS60** — AStudio Workstation Professional Edition for Windows® XP/2000/NT (including DEV and RT Editions)

Development Version

- **AS256-WD60** — AStudio Developement Kit for Windows® XP/2000/NT (Asia Only)
- **AS512-WD60** — AStudio Developement Kit for Windows® XP/2000/NT (Asia Only)
- **AS1500-WD60** — AStudio Development Kit for Windows® XP/2000/NT
- **AS1500-CD60** — AStudio Developement Kit for Windows® CE .NET
- **AS4000-CD60** — AStudio Workstation Development Kit for Windows® CE .NET

Runtime Version

- **AS256-WR60** — AStudio Runtime Edition for Windows® XP/2000/NT (Asia Only)
- **AS512-WR60** — AStudio Runtime Edition for Windows® XP/2000/NT (Asia Only)
- **AS1500-WR60** — AStudio Runtime Edition for Windows® XP/2000/NT
- **AS4000-WR60** — AStudio Runtime Edition for Windows® XP/2000/NT

Upgrade Kit

- **AS1500-CD60/U** — Upgraded kit from AS1500-CD51 to AS1500-CD60
- **AS1500-WD60/U** — Upgraded kit from AS1500-WD51 to AS1500-WD60
- **AS4000-CD60/U** — Upgraded kit from AS4000-CD51 to AS4000-CD60
- **AS4000-WS60/U** — Upgraded kit from AS4000-WS51 to AS4000-WS60

Communication Drivers

Advantech	ADAM-4000, ADAM-5000/485, ADAM-6000
AEG Schneider (Modicon Square D Telemecanique)	AEG Compact PLC*, ModCon 984E*, Quantum Family
	ModCon 984E* Ethernet Quantum Ethernet Family
	MODBUS Plus compatible equipment
	Symax
Allen-Bradley®	Family PLC2
	Family PLC5
	Family SLC500
	Family 5000
Cutler-Hammer®	D50*, D300
GE-Fanuc®	Series 90, 90/30 CPU 341*
Mitsubishi®	FX-232AW
Omron®	C-series Rack PCs
	Sysmac way
	Host link units
	Sysmac C200H*
	E5CK / E5AF
Phoenix®	Interbus Compatible
Siemens®	S5 (PG port)
	S5/S7 3964R, S7 (MPI)
	Profibus DP Slave Compatible
	Profibus DP Master Compatible
	Profibus FMS Compatible
	S5-945 PG Port
	MXT521
Yokogawa®	UT35
	HR2500E
	DA100
	UT37/UT38
	UT750, UP750, UT550, UT520, UP550, UT350, UT320, UM350, UM330, UP350
	YS100
Modbus Ethernet	Modbus/TCP
Modbus	RTU/ASCII
OPC	Server/Client

Note: Advantech Studio V6.0 supports more than 150 communication drivers for 3rd party devices from different manufacturers such as Omron®, Allen-Bradley®, Siemens®, and many more.

1 Software
2 IPPC
3 TPC
4 FPM
5 ATM & AWS
6 DA&C
7 cPCI
8 ADAM-3000
9 Motion Control
10 ICOM
11 eConnectivity
12 UNO
13 ADAM-4000
14 ADAM-5000
15 ADAM-6000
16 ADAM-8000
17 BAS