

# Advantech WebAccess

Browser-Based  
HMI/SCADA Software



## Features

- Enables 100% web-based remote engineering, monitoring, and control
- Supports the MQTT protocol to provide big data to cloud platforms in the Publish/Subscribe pattern
- HTML5 Intelligent Dashboard provides a HTML5-based user interface for cross-browser, cross-platform data analysis as well as Widget Builder for creating custom widgets
- Open interface web services (RESTful API and SignalR), widget interface and WebAccess APIs
- Supports diverse drivers including Advantech's I/O modules, controllers, and major PLCs, as well as standard protocols Modbus, OPC UA, OPC DA, SNMP, and BACnet
- Easily integrated with third-party software, such as MES and ERP, via open interfaces
- Integrated with WebAccess/IVS, WebAccess/NMS, and WISE-PaaS/RMM
- HTTPS enabled for web security
- Redundant SCADA systems, ports, and devices for high availability

## Introduction

Advantech WebAccess is a 100% web-based SCADA software solution that also serves as an IIoT platform by providing open interfaces for developing IoT applications aimed at various vertical markets. WebAccess also acts as a gateway by collecting substantial amounts of data from ground equipment and transferring this data to cloud applications via the MQTT protocol in the Publish/Subscribe pattern. In addition to traditional SCADA functions, WebAccess features an intelligent dashboard to facilitate cross-platform, cross-browser data analysis and provide a user interface based on HTML5 technology.

The basic components of WebAccess are as follows:

1. **Project Node:** This is the project development platform that also acts as a web server for all clients to connect to development projects, facilitating remote monitoring and system control. All system configuration settings, project database files, and graphics are stored in the project node.
2. **SCADA Node:** This node enables real-time communication with automation equipment as well as equipment control via serial, Ethernet, or proprietary communication protocols using the various built-in device drivers. The SCADA node not only allows local control and monitoring, but also provides real-time data to all remote clients.
3. **ViewDAQ Client:** Through Microsoft Internet Explorer's ActiveX control, ViewDAQ Client monitors and controls the SCADA node. Clients must first connect to the project node to obtain the address of the SCADA node before communicating directly with the SCADA node using proprietary communication protocols over a TCP/IP connection. Data is displayed in real time as dynamically animated graphics and presented along with real-time historical trends and alarm information. The ViewDAQ Client can be used to acknowledge alarms and change set-point and status data, as well as other information.
4. **Dashboard Client:** This enables users to access the dashboard server through any browser on any platform, such as a computer, pad, or smartphone equipped with iOS, Android, or Windows.

## Feature Details

### Supports Private/Hybrid Cloud Architecture

WebAccess is a 100% web-based HMI and SCADA software with private/hybrid cloud architecture. WebAccess provides large equipment vendors, SIs, and enterprises with the ability to access and manipulate centralized data and to configure, change/update, or monitor equipment, projects, and systems all over the world using a standard web browser. For WebAccess/Cloud applications, WebAccess also acts as a gateway, collecting substantial amounts of data from ground equipment and providing this data to cloud applications using the MQTT protocol. MQTT is an extremely lightweight Publish/Subscribe messaging transport protocol for M2M/IoT connectivity.

### Business Intelligence Dashboard

WebAccess provides an HTML5-based dashboard as the next generation of WebAccess HMI. SIs can use the dashboard editor to create custom information page featuring analysis charts and diagram widgets. The built-in widget library contains numerous widgets, such as trends, bars, alarm summary, and map widgets, and the included Widget Builder can be used to create unique widgets. Once dashboard screens are created, end users can use the dashboard viewer to access data from various devices, including PCs, Macs, tablets, and smartphones, via various browsers, such as Explorer, Safari, Chrome, and Firefox, for a truly convenient viewing experience.

### Widget Builder

Widget Builder is a widget development tool based on HTML5 and featuring an intuitive UI. Users can edit widgets remotely from any location using any browser and at any time. Widget Builder provides users with various design tools for creating widget components and drawing shapes and objects with a wide range of animations. Additionally, all widgets can be easily imported and exported for reuse.

### Open Interface

WebAccess offers three types of interfaces, including RESTful API and SignalR, for various uses. First, WebAccess provides a web service interface for partners to integrate WebAccess data into apps or application systems. Second, a pluggable widget interface is opened for programmers to develop widgets and run WebAccess Dashboard. Finally, WebAccess opens WebAccess API, which is a DLL interface for programmers to access the WebAccess platform and develop Windows applications. By supporting these interfaces, WebAccess serves as a platform for developing IoT applications in various vertical markets.

### Integrated with WebAccess/IVS

WebAccess is integrated with WebAccess/IVS to provide a comprehensive video management solution that supports real-time monitoring and video playback. With this intelligent video surveillance system, events can be displayed as alarms and video playback performed accordingly.

### Integrated with WebAccess/NMS

WebAccess/NMS is a network device management system based on HTML5. WebAccess can be easily integrated with a web interface. Additionally, with WebAccess graphics, users can search the event logs and monitor the real-time status of network devices via the network topology.

### Integrated with WISE-PaaS/RMM

Previously, WebAccess only supported sensor and device monitoring. Now, with the integration of WISE-PaaS/RMM, WebAccess also supports monitoring of the equipment and platform status, such as the CPU temperature, CPU usage, and board temperature, thereby enabling remote equipment monitoring.



## Automated Excel Reports

## Open Data Connectivity

## WebAccess Express - The Auto-Configuration Tool

## Real-Time Database

## Multiple Driver Support

## Multi-Touch Gesture Support

## Redundant SCADA, COM Ports, and Devices

**Online Download** [www.advantech.com/products](http://www.advantech.com/products)

# Advantech WebAccess

Browser-Based  
HMI/SCADA Software

## Software Specifications

### Advantech WebAccess Professional

▪ Number of I/O Tags	75/150/300/600/1500/5000/20K/Unlimited
▪ Number of Internal Tags	75/150/300/600/1500/5000/20K/Unlimited
▪ Number of Web Clients	1024, free of charge
▪ Number of Drivers	Supports over 350 types of PLCs and RTUs

### Graphics

▪ Number of Graphic Pages	Unlimited (limited by H/D size)
▪ Variables Per Graphic Pages	4000
▪ Built-in Gallery	Yes
▪ Multi-Touch Gesture	Yes

### HTML5 Dashboard

▪ Cross Browser and Platform	Yes
▪ Built-in Widgets	Yes
▪ Open Widget Interface	Yes
▪ Widget Builder	Yes

### Web-enabled Integration

▪ Video	Yes
▪ Google Maps and GPS Location Tracking	Yes

### Alarm and Trend Log

▪ Number of Alarm Logs	5000
▪ Number of Action Logs	5000
▪ Number of Data Logging	Number of IO tags license x 2
▪ Alarm Groups per SCADA	9999

### Scheduler

▪ Holiday Configuration Group	9999
▪ Time Zone Group	9999
▪ Device Loop Group	9999
▪ Equipment Group	9999
▪ Scheduler Reservation Group	9999

### Open Interface

▪ Windows APIs	Yes
▪ RESTful API	Yes
▪ SingalR	Yes

### Network Architecture

▪ SCADA Node Redundancy	Yes
▪ Device Redundancy	Yes
▪ Super SCADA with Breakpoint Resume	Yes

### Open Connectivity

▪ Modbus Server	Yes
▪ BACnet Server	Yes
▪ OPC DA/UA Server/Client	Yes
▪ DDE Server	Yes

### Database

▪ Database Server	SQL Server/Oracle/MySQL/Microsoft Access
▪ ODBC and SQL Query	Yes

### Report

▪ Web-Based Report	Yes
▪ Excel Report	Yes
▪ Send Email by PDF or Excel	Yes

### Receipt

▪ Recipes per Project	Unlimited (limited by H/D size)
▪ Unit per Recipe	999
▪ Item per Unit	999

### Others

▪ Centralized Logs on Project	Yes node via ODBC
▪ Script Language	TclScript/VBScript/JScript
▪ Supports IPv6	Yes
▪ WebAccess Express	Yes

## Ordering Information

### Professional Versions

▪ WA-P82-U075E	WebAccess V8.2 Professional Software with 75 tags
▪ WA-P82-U150E	WebAccess V8.2 Professional Software with 150 tags
▪ WA-P82-U300E	WebAccess V8.2 Professional Software with 300 tags
▪ WA-P82-U600E	WebAccess V8.2 Professional Software with 600 tags
▪ WA-P82-U15HE	WebAccess V8.2 Professional Software with 1,500 tags
▪ WA-P82-U50HE	WebAccess V8.2 Professional Software with 5,000 tags
▪ WA-P82-U20KE	WebAccess V8.2 Professional Software with 20,000 tags
▪ WA-P82-U64KE	WebAccess V8.2 Professional Software with unlimited tags

### Options\*

▪ WA-X82-MQTT	WebAccess MQTT driver and broker module
---------------	---

\*Only for WebAccess Version 8.x.

### Version Upgrade\*

▪ WA-X82-U000E	WebAccess Upgrade to Version 8.2
----------------	----------------------------------

\*Upgrade the WebAccess version from 7.x to 8.2.

\*Free version upgrade from 8.x to 8.2.

### Tags Upgrade\*

▪ WA-X82-U075E	WebAccess software license, 75 tags upgrade
▪ WA-X82-U300E	WebAccess software license, 300 tags upgrade
▪ WA-X82-U600E	WebAccess software license, 600 tags upgrade
▪ WA-X82-U15HE	WebAccess software license, 1,500 tags upgrade
▪ WA-X82-U50HE	WebAccess software license, 5,000 tags upgrade

\* Original serial number from WebAccess Professional version is required to purchase WebAccess upgrade. The serial number can be found on the USB dongle.

## Minimum Requirements

### Project Node/SCADA Node

▪ Operating System	Windows XP (SCADA node only), Windows 7 SP1, Windows 8.1, Windows Server 2008 R2 or later, Windows 10 (does not support Home or Home Premium), IIS7.5, and Net Framework 4.5
▪ Hardware	Intel® Atom™/Celeron® dual-core processors or higher with 4 GB RAM minimum and 200 GB or more free disk space recommended
▪ Display Resolution	1024 x 768 or higher (recommended) Lower resolutions also supported
▪ USB Port	USB port for License Hardkey on SCADA node

### Dashboard Viewer

▪ Hardware	<b>PC:</b> Intel® Core™ i3 or higher with 4GB RAM or more <b>iPhone:</b> iPhone 5 or later version <b>Android:</b> 1.5 GHz quad-core or higher; 2GB RAM or more <b>Windows Phone:</b> 1.5 GHz quad-core or higher; 2GB RAM or more
▪ Browser	<b>Internet Explorer:</b> IE 11 or later <b>Chrome:</b> Version 37 or later <b>Firefox:</b> Version 31 or later <b>Safari:</b> Version 7 or later

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Advantech:

[WA-P82-U15HE](#) [WA-P82-U300E](#) [WA-X82-U600E](#) [WA-P82-U600E](#) [WA-X82-U000E](#) [WA-X82-U075E](#) [WA-P82-U075E](#) [WA-X82-U15HE](#) [WA-P82-U150E](#) [WA-P82-U20KE](#) [WA-P82-U64KE](#) [WA-X82-U300E](#) [WA-X82-U50HE](#) [WA-P82-U50HE](#)