Intelligent Operator Panels

Enabling Flexible Connectivity through Powerful Solution-oriented Software

- / Introduction
- / Product Portfolio
- / Features & Functions
- Software Features
- Successful Applications





Enabling an Intelligent Planet

Series

To satisfy the stringent standards required in the automation market, especially packaging, label slitting, and motion-based robot dispensing, Advantech offers the Operator Panels which are designed with RISC platform. To fulfill different applications, Advantech provides Real-Time OS and built-in Microsoft® WinCE 6.0 OS platform which bundles WebOP Designer and lets the Operator Panels become a control HMI for flexible system integration. WebOP Designer 2.0 is a software development tool which involves the use of PLCs and helps create application solutions for labor-saving, improves efficiency of manufacturing and easy control of every machine in the factory. Advantech Operator Panels also support a variety of LCD sizes from 3.5" to 15" and are suitable for any PLC applications, and the use of different motion/thermal controllers, inverters and sensors.





- Focuses on textile, packaging and pharmaceutical
- · Wide market coverage in Building Automation, with BACNet MSTP & BACNet TCP/IP
- acquisition and bi-directional control
- Data acquisition and bi-directional control through real time communication
- Support various communication links





- Free software development kit
- Supports Windows XP/Vista/7
- Communicates with SCADA software to create a complete automation solution

WebOP-2050T



WebOP-2070T

Supports PLC driver programming

WebOP-2080T

WebOP-2100T

2

- Online Web-based technical document sharing
- FAQ, Forum, Mini-site
- · Web-based online training







WebOP-2000/3000 Series Selection Guide









	Model	WOP-3070T	WOP-3100T	WOP-3120T	WOP-3150T				
Orderin	g Information	WOP-3070T-C4AE	WOP-3100T-C4AE	WOP-3120T-C4AE	WOP-3150T-C4AE				
CPU		RISC 32 bits, 600 MHz (ARM® Cortex™-A8)							
Backup	Memory	FRAM 1M bit (=128K Byte, 64word)							
Working	Memory	DDR2 256M Bytes							
Storage	1	512MB on board SLC type							
Operatir	ig System	Microsoft® Windows CE 6.0							
	Туре	WVGA(16:9) TFT LCD	WSVGA(16:9) TFT LCD	XGA TFT LCD	XGA TFT LCD				
	Size	7"	10.1"	12"	15"				
	Max. Resolution	800 x 480	1024 x 600	1024 x 768	1024 x 768				
Display	Max. Colors	65,536 colors	65,536 colors	65,536 colors	65,536 colors				
Disi	Luminance (cd/m2)	500	550	500	400				
	Viewing Angle (H/V°)	140/120	140/110	160/140	160/140				
	Backlight Life (hr)	LED, 50,000	LED, 50,000	LED, 50,000	LED, 50,000				
	Dimming	Adjustable	Adjustable	Adjustable	Adjustable				
Touchso	creen	5 wire Analog Resistive	5 wire Analog Resistive	5 wire Analog Resistive	5 wire Analog Resistive				
Power-C	n LED	Yes	Yes	Yes	Yes				
Commu	nication LED	No	No	No	No				
Front US	SB Access	No	No	No	No				
_	COM1	RS-232/RS-422/RS-485 (DB9)	RS-232/RS-422/RS-485 (DB9)	RS-232/RS-422/RS-485 (DB9)	RS-232/RS-422/RS-485 (DB9)				
ation	COM2	RS-422/RS-485 (Terminal 4pin+Ground)	RS-422/RS-485 (Terminal 4pin+Ground)	RS-422/RS-485 (Terminal 4pin+Ground)	RS-422/RS-485 (Terminal 4pin+Ground)				
nmunicat Interface	COM3	RS-485 (Termianl 2pin)	RS-485 (Termianl 2pin)	RS-485 (Termianl 2pin)	RS-485 (Termianl 2pin)				
Communication Interface	CAN	Termianl 2pin	Termianl 2pin	Termianl 2pin	Termianl 2pin				
0	Ethernet (RJ45)	10/100-BaseT	10/100-BaseT	10/100-BaseT	10/100-BaseT				
	USB Client	USB 2.0 Client x 1	USB 2.0 Client x 1	USB 2.0 Client x 1	USB 2.0 Client x 1				
	USB Host	USB 2.0 Host x 1 (Top)	USB 2.0 Host x 1 (Top)	USB 2.0 Host x 1 (Top)	USB 2.0 Host x 1 (Top)				
	Micro-SD Slot	Yes	Yes	Yes	Yes				
80/1	SD Slot	-	-	-	-				
	Audio	1 Lin out / 1 Mic in	1 Lin out / 1 Mic in	1 Lin out / 1 Mic in	1 Lin out / 1 Mic in				
	Power Isolation	Yes	Yes	Yes	Yes				
	I/O Isolation	Yes	Yes	Yes	Yes				
Power 9	Supply Voltage	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%				
Power C	onsumption	7W Typical	9W Typical	12W	14W				
Dimensi	ons W x H x D (mm)	203.4 x 150 x 43.7 mm (8.01" x 5.91" x 1.72")	271.5 x 213.5 x 43.2 mm (10.69" x 8.41" x 1.7")	311 x 237 x 46.8 mm (12.24" x 9.33" x 1.84")	386 x 310 x 46.8 mm (15.20" x 12.2" x 1.84")				
Cut-out	Dimensions W x H (mm)	192 x 138.5 mm (7.56" x 5.45")	259.5 x 201.5 mm (10.22" x 7.93")	302.5 x 228.5 mm (12.1" x 9.14")	374.5 x 298.5 mm (14.74" x 11.75")				
Front Pa	nel thickness (mm)	6 mm	6 mm	6 mm	6 mm				
Enclosu	re	Die-cast aluminum alloy front bezel	Die-cast aluminum alloy front bezel	Die-cast aluminum alloy front bezel	Die-cast aluminum alloy front bezel				
Net Weight		1 Kg (2.20 lbs)	1.2 Kg (2.65 lbs)	2.5 kg (5.51 lb)	3 Kg (6.61 lbs)				
Operatir	ng Temperature	-20 ~ 60°C (-4 ~ 140° F)	-20 ~ 60°C (-4 ~ 140° F)	-20 ~ 60°C (-4 ~ 140° F)	-20 ~ 60°C (-4 ~ 140° F)				
Storage Temperature		-30 ~ 70°C (-22 ~ 158° F)	-30 ~ 70°C (-22 ~ 158° F)	-30 ~ 70°C (-22 ~ 158° F)	-30 ~ 70°C (-22 ~ 158° F)				
Humidit		10% ~ 90% RH @ 40° C, non-condensing	10% ~ 90% RH @ 40° C, non-condensing	10% ~ 90% RH @ 40° C, non-condensing	10% ~ 90% RH @ 40° C, non-condensing				
	Protection	Front panel: IP66	Front panel: IP66	Front panel: IP66	Front panel: IP66				
Certifica	ation Approval	CE / FCC / BSMI / CCC / UL / UL-508	CE / FCC / BSMI / CCC / UL / UL508	CE / FCC / BSMI / CCC / UL	CE / FCC / BSMI / CCC / UL				











WOP-2040T		WOP-2050T	WOP-	2070T	WOP-	2080T	WOP-	2100T						
WOP-2040T-S1AE	WOP-2040T-N1AE	WOP-2050T-S1AE	WOP-2070T-S2AE	WOP-2070T-N2AE	WOP-2080T-S2AE	WOP-2080T-N2AE	WOP-2100T-S2AE	WOP-2100T-N2AE						
RISC 32bit	ts, 200MHz	RISC 32bits, 200MHz	RISC 32bit	ts, 200MHz	RISC 32bit	ts, 200MHz	RISC 32bits, 200MHz							
128	BKB	128KB	128	BKB	128	128KB		BKB						
32 MB	SDRAM	32 MB SDRAM	64 MB	SDRAM	64 MB	SDRAM	64 MB SDRAM							
8MB NOR Flash	8MB NOR Flash	8MB NOR Flash	8MB NOR Flash	8MB NOR Flash	8MB NOR Flash	8MB NOR Flash	8MB NOR Flash	8MB NOR Flash						
-	128M NAND Flash	128M NAND Flash	-	128M NAND Flash	-	128M NAND Flash	-	128M NAND Flash						
HMI RTOS, Web	OP Designer 2.0	HMI RTOS, WebOP Designer 2.0	HMI RTOS, WebOP D	Designer 2.0	HMI RTOS, WebOP D	Designer 2.0	HMI RTOS, WebOP D	esigner 2.0						
WQVGA(16	:9) TFT LCD	Similar QVGA TFT LCD	WVGA(16:	9) TFT LCD	SVGA 1	TFT LCD	Similar WSV	GA TFT LCD						
4.	3"	5.6"	7	7"	3	3"	10	.1"						
480	x 272	320 x 234	800 :	x 480	800	x 600	1024	x 600						
65,536	colors	65,536 colors	65,536	3 colors	65,536	3 colors	65,536	colors						
41	00	330	30	00	2	50	2	50						
100)/95	130/110	140	/130	140	/130	140	/110						
LED, 2	20,000	LED, 20,000	LED, 2	20,000	LED,	30,000	LED, :	20,000						
Adjus	stable	Adjustable	Adjus	stable	Adju	stable	Adju	stable						
4 wires Ana	alog resistive	4 wires Analog resistive	4 wires Ana	alog resistive	4 wires Ana	alog resistive	4 wires Ana	log resistive						
Y	es	Yes	Y	es	Y	'es	Y	es						
N	lo	No	No		No		No		No		No		N	lo
٨	lo	No	No No		No									
RS232/422/48	5 (DB9 Female)	RS232/422/485 (DB9 Female)	RS232/422/48	5 (DB9 Female)	RS232/422/48	5 (DB9 Female)	RS232/422/485 (DB9 Female)							
RS422/485 (5 Pir	n Plug Connector)	RS422/485 (5 Pin Plug Connector)	RS422/485 (5 Pin Plug Connector)		RS422/485 (5 Pin Plug Connector)		RS422/485 (5 Pi	n Plug Connector)						
RS232 (CON	V11: Pin5;7;8)	RS232 (COM1: Pin5;7;8)	RS232 (COM1: Pin5;7;8)		RS232 (COM1: Pin5;7;8)		RS232 (COM1: Pin5;7;8)							
-	-	-	-	-	-	-	-	-						
-	10/100-BaseT	-	-	10/100-BaseT	-	10/100-BaseT	-	10/100-BaseT						
Y	es	Yes	Y	es	Y	'es	Y	es						
Y	es	Yes	Y	es	Y	'es	Y	es						
-	Yes	Yes	-	Yes	-	Yes	-	Yes						
-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-						
-	-	-	-	-	-	-	-	-						
24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%						
5	W	10W	10	VVC	10	OW	10)W						
	2 x 36.4mm 18" x 1.43")	188 x 143.3 x 30mm (7.4" x 5.64" x 1.18")		.3 x 30mm 34" x 1.18")		4.6 x 37mm 87" x 1.46")		2 x 37.4mm .35" x1.47")						
	92.5mm x 3.64")	175 x 132.5mm (6.89" x 5.21")		32.5mm x 5.21")	221 x 164 mm (8.70" x 6.46")		259.5 x 201.5 mm (10.22" x 7.93")							
5 r	nm	6 mm	6 r	mm	6 mm		6 mm							
PC + ABS	PC + ABS	PC + ABS	PC + ABS	PC + ABS	PC + ABS	PC + ABS	PC + ABS	PC + ABS						
0.3 kg (0.66 lbs)	0.51 kg (1.12 lbs)	0.6 kg (1.32 lbs)	0.93 kg	(2.05 lbs)	1.2 kg (2.64 lbs)						
0 ~ 50°C (32 ~ 122° F)		0 ~ 50°C (32 ~ 122° F)	0 ~ 50°C (3	32 ~ 122° F)	0 ~ 50°C (32 ~ 122° F)		0 ~ 50°C (32 ~ 122° F)							
-20 ~ 60°C	(-4 ~ 140° F)	-20 ~ 60°C (-4 ~ 140° F)	-20 ~ 60°C	(-4 ~ 140° F)	-20 ~ 60°C (-4 ~ 140° F)		-20 ~ 60°C	(-4 ~ 140° F)						
10% ~ 90% RH @ 40	0° C, non-condensing	10% ~ 90% RH @ 40° C, non-condensing	10% ~ 90% RH @ 40	0° C, non-condensing	10% ~ 90% RH @ 40	0° C, non-condensing	10% ~ 90% RH @ 40	0° C, non-condensing						
Front pa	nel: IP66	Front panel: IP66	Front pa	inel: IP66	Front pa	anel: IP66	Front pa	nel: IP66						
CE / FCC / BS	SMI / CCC / UL	CE / FCC / BSMI / CCC / UL	CE / FCC / BS	SMI / CCC / UL	CE / FCC / BS	SMI / CCC / UL	CE / FCC / BS	SMI / CCC / UL						
					•		•							

WebOP Series Features

With RISC-based processors up to 600MHz, the WebOP series supports a variety of LCD sizes from 3.5" to 15" and are highly suited for applications involving the use of PLCs, motion/thermal controllers, and are highly suited for applications involving the use of PLCs, motion/thermal controllers, inverters and sensors. With various communication interfaces, including RS-232/422/485, Ethernet and USB ports, the WebOP series can easily connect to a variety of equipment. Furthermore, these products include IP66 protection and 0 ~ 50°C operating temperatures to ensure reliable performance in the most demanding environments. Compatible with over 300 of the most popular PLCs on the market, including: Allen Bradley Micrologix, Modicon. Quantum, GE 90, Siemens AG Simatic S7, Mitsubishi. FX/Q, Omron Sysmac C/CV/CS/CJ, and Yaskawa MP, the WebOP series and WebOP Designer 2.0 provide an outstanding price/performance ratio for a variety of factory automation needs.



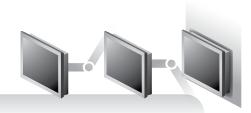
Complete Range of LCD Sizes

Supports a variety of LCD sizes from 3.5" to 12.1" and are highly suited for applications involving the use of PLCs.



Level 4 ESD Protection

Air Discharge 15KV Level 4; Contact Discharge 8KV Level 4.



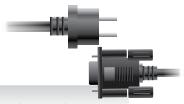
VESA & Wall mounting kits

One kit for different applications.



Powerful Memory Design

512MB on board SLC type storage, 128KByte Backup FRAM and no battery issue concerns.



Independent isolation design

Outside inrush current & electronics noise protection.



Built-in CANBus function

Support for CANopen library registered by CiA 301 V4.02.





Micro SD Data Storage

All WebOP-T series products have built-in a standard Micro SD slot for static data storing use.



Multiple Communication Ports

With various communication interfaces, including RS-232/422/485, Ethernet and USB Host/Client ports.



Waterproof / IP66 Protection

All models support IP66 protection and $0 \sim 50^{\circ}$ C operating temperature range.



PLC Connectivity

Compatible with over 300 of the most popular PLCs on the market for a variety of factory automation needs.

HMI Development Software - WebOP Designer

WebOP Designer is proven in many application fields and is an easy to use integrated development tool featuring 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 because of the minimum system overhead, high communication data rates, sub-second screen switching and 24/7 operation.



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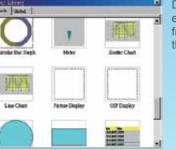
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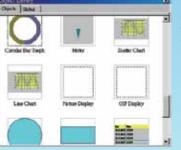




Registered Components Display



Designing screens is made easy by selecting components from the image list and putting them on the drawing screen.



Edit Toolbar

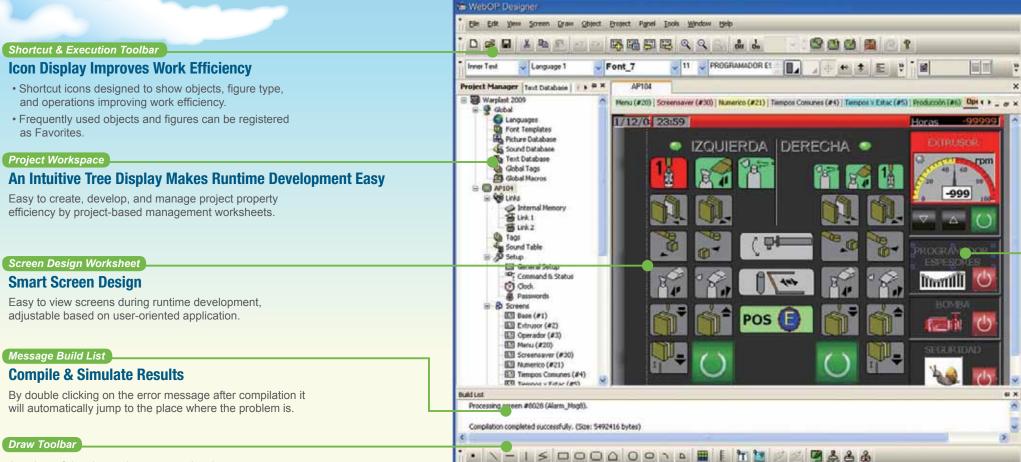
Dedicated Component Editing Screen

- A component editing screen appears by double-clicking a registered component within the library workspace.
- · Editing registered components is quick and easy.

Dialog Box



- The attribute screen is displayed by double-clicking the object or figure.
- Figure changes are immediately reflected onscreen, thereby simplifying the process and reducing setting errors.
- Easy to set the properties through pop-up dialog box.



A variety of drawing tools empower developers to create expansive applications.

■ Software Features

- · Allow users to switch multi-language UI dynamically, with Unicode and multilingual screen text supported.
- · Provide password protection of designs, macros and upload/download operations
- · Provide index registers for modifying device addresses
- · Operation log helps the review and investigation of important events.

593, 441 Test

491, 213 132 = 35 100%

- Allow downloads of runtime data using serial port, Ethernet, USB
- · Allow the use of USB memory sticks or Micro-SD for trouble-free application updates.
- Supports over 300 industrial communication protocols, such as SIMATIC S7-1200. BACNet MSTP/BACNet IP. and more.

10

WebOP Designer Software

Efficient Project-based Structure to Manage Multiple Applications

Project manager

- · One project can have many applications.
- The project tree provides all you need to manage a project.
- Global settings and resources sharable to all applications in a project
- You can make the most out of existing projects by importing / exporting functions for all kinds of settings.
- · Containing entire project in one file makes the maintenance job easy.



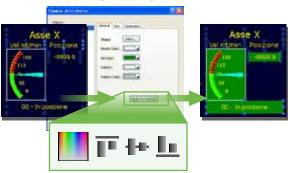
User Friendly Tools to Make Customized Designs Easier and More Efficient

Screen editor and toolbars

- Real-time WYSIWYG allows you to see the change of object appearance at any time.
- Property dialogs with semi-transparent features will not block your view to screen objects anymore.
- Automatic size adjustment of characters and pictures according to the object size is supported.
- · Group a number of objects to move, resize, and modify the common attributes.
- Rotate a picture or change its tone to fit the needs of an object.

Auto Resizing, Rotating & Tone

9



Software Functions to Meet Various Machine Automation Needs

Possible to achieve a mini-SCADA system

- You can have the following for an application:
- 10 sets of text to support multiple languages.
- 4 communication links with the option to add more
- RS-485 and TCP/IP sub-links.
- 7999 screens.
- 1 startup macro; 1 main macro; 4 event macros, 4 time macros, no limitation on other kinds of macros
- 16 discrete alarm, analog alarm, recipe block and data loggers, data logger



Smart Screen Management

Screen manager

- Show the screen numbers and their names of an application in a traditional text list or a thumbnail list.
- Select screens from the list to edit, cut, copy, delete, or export them.
- Create new screens and import screens can be done through a pop-up menu.
- · Click on a screen thumbnail to highlight the connections of that screen with others.
- Double-click on a screen thumbnail to open that screen's editing window or property dialog.

List View Thumbnail View

DE ST. A. Francisco.
DE ST. A.

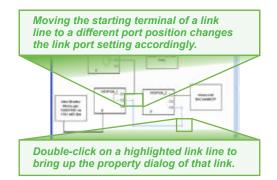
Screen Overview



A Graphical Tool for Defining Communication Configuration

Link overview

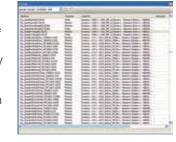
- Depicts the communication links of all the panel applications in a project. You can easily see the paneldevice connections and the panel-panel connections.
- Edit the content of the link overview to make it more readable and meaningful.
- Create panel applications and communication links. This is a way of doing top-down design on communication level.



Show All I/O Points With Their Purpose in A Table

Screen editor and toolbars

 Double-click on an I/O point to bring up the property dialog of that I/O point's user. It is a convenient way to view or modify the configuration of an entity associated with a certain I/O point.



Display All Objects With Associated I/O Points in a List

Object list

• Show all the objects of a screen with their types, IDs. and associated I/O addresses. You can edit the I/O addresses in the list directly.



Thousands of Professional Pictures to Make Screen Designs Easy and Outstanding

Picture libraries and picture database

· Famous industrial pictures from Symbol Factory are ready for use, so that making your own picture libraries is easy.



WebOP symbols (.BMP)

Easy-to-use Macro Editor and Commands

Macro editor and macro commands

 Macro editor and macro commands are useful for operations, such as sequential operations, conditional operations, interactive operations, file operations, data exchange between two connected devices, etc.



Macro Commands



Changing HMI Model Can Be Done in Seconds

Automatic size adjustment

• When changing the screen resolution, all the screen objects are automatically resized to maintain the relative positions and size ratios to the original screens.



5.7" 640x480 7" 800x480

Macro Editor

WebOP Designer Software

Simple Text Mapping Table Fulfills The Needs for Multiple Languages

Text database and text editor

• Text database tables have multiple columns to contain strings for all supported languages with import/export functions, you can use Microsoft Excel to edit strings and import them for an application.

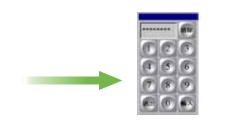


Import/Export from or to Excel

Customized Keypad Layouts and Designs

Custom keypads and on-screen keypads

- You can design your own keypad to make it more appealing or suitable for your requirements.
- Using on-screen keypads instead of pop-up keypads is



Custom Keypads

Secure Intellectual Properties

Design protection

- Project files, global macros, and password tables can be protected by different passwords.
- Copying and uploading of an application can be prohibited in advance.



Anti-Piracy Functions

1 2 3

4 5 6 8 9

Esc 0 Ent

Advanced object settings

- An allowable input range can be set for a numeric data entry object.
- Buttons, switches, and data entry objects can be disabled or hidden dynamically by the current user level or the specified bits.
- Operator confirmation can be asked for a data entry.
- · Minimum holding time can be required for a button/switch.
- Advanced Numeric Display can use a macro to check the user input.





Support Dynamic Data, Scale and Time Ranges for Complicated Applications

Dynamic range

· With the support of dynamic range, a screen object can adapt its display to the current range settings to show information more readable and precise.



Provide Complete Recipe Handling Functions

Recipe blocks

- · Supports up to 16 different groups of recipes.
- Transfer of recipes between WebOP and PLCs/files is supported.



Offline simulation Simulator Application function can help to experience your design result even before decide to purchase this model. Evaluate the communication performance using online simulation before installation.

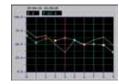
Easy to Configure Data Collections and Historic Data Displays

Data loggers

- You can save/load collected data (up to 16 different data sources) to/from a file by a function button or macro program.
- Historic Event Table displays collected data and history of predefined events in tabular form.



 Historic Trend Graph displays collected data in trend lines



 Single Record Line Chart displays the profile of one sample from a set of collected data.

Versatile Alarm Monitoring and Display Capabilities

Alarm processing

- Up to 16 discrete alarm blocks and 16 analog alarm blocks can be monitored and recorded.
- Up to 8 data values can be read and recorded along with an alarm event.
- A global alarm marguee is supported.



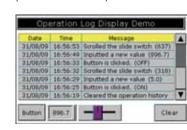
Operations Can Be Recorded for Improving Quality and Efficiency

Operation logging

- The starting time and the stopping time of an application can be recorded.
- The failure of a communication link can be recorded.
- Operation Log Display lists the logged operations process for the operator to review.

Reduce Time and Effort to Boost Performance

Offline simulation and online simulation



through Advanced Simulations

Operation Log Display

Easy-to-Use Error Messages Compiler

- Check the correctness and consistency of all settings and design to optimize the communications with connected devices.
- Translate macros into compact and ready-to-execute
- Build runtime data to be executed by the WebOP.



Provide Various Choices for Application Runtime Data Transfers

Data Transfer Tool & Data Transfer Helper (DTH)

- Use WebOP Designer or DTH to transfer an application's runtime data to a WebOP through a serial port, an Ethernet port, or a USB port anytime when that WebOP is running.
- Without a PC, transfer an application's runtime data to a WebOP by using an USB memory stick or MicroSD card.





Offline Simulation

HMI Runtime Software - Panel Express

PANEL EXPRESS

PanelExpress is a Windows based HMI runtime. It enables you to utilize the resources of a PC, such as computation power, multimedia, and bigger screen, to realize a high-end sophisticated HMI. Its configuration software, WebOP Designer, is also the development tool for WebOP-2000 series RTOS based HMI products. Thanks to the cross platform flexibility offered by WebOP Designer, switching hardware for the consideration of cost and performance becomes an easy job.













General Features



Cost effective Windows based HMI runtime



No limitation on the internal I/O points which used in an application



Over 50 kinds of screen objects can fulfill all types of HMI operating and viewing needs for machine automation



Supports 16 communication links for different application



Supports over 350 PLC communication protocols



Supports data collection, alarm monitoring, recipe handling, and history of operation logging

Advanced Features



Number of communication links can be set up to 128







Monitors up to 64 discrete alarm blocks and 64 analog alarm blocks. Totally up to 65535 alarms can be defined



Supports VNC(Virtual Network Computing)



Supports Visual Basic Script

Successful Applications

A Total Automation Solution for Fiberglass Textile Machine



Introduction

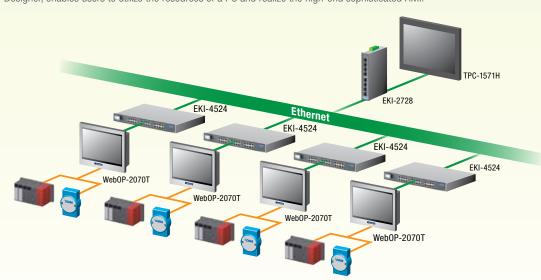
One of Southeast Asia's largest fiber glass manufacturers which is principally engaged in the manufacture and distribution of electronic-grade fiber glass yarns, industrial fiber glass yarns and electronic-grade glass fiber cloth for reinforcement and insulation materials in printed circuit boards (PCBs) was planning to raise the level of automation in production so that administrator can keep abreast of the production status while reducing handwriting errors.

System Requirements

In order to replace the original individual operating mode, the new system has to offer total solution, including a friendly terminal for textile machinery to easily control manufacturing processes, the reliable network connection to ensure accurate data transmission, a powerful computer for control center as a server to deal with large amounts of data. Apart from various devices, the HMI runtime development software to quickly design the suitable user interface for textile machinery and industrial panel PC is also a necessity for this case.

System Diagram

A total of 84 Advantech WebOP-2070T, 7" WVGA Operator Panels, were installed on the production lines to collect a variety of signals from on-site devices such as PLC, driver and stepper motor and this data can be transmitted to 15" Touch Panel Computers (TPC-1571H) in the control center via the two kinds of Ethernet Switches. The WOP-2070T provides an outstanding price performance ratio such as built-in ARM9-based RISC processors and up to 200MHz and 128MB flash memory as well as supporting hundreds of industrial communication protocols.they were bundled with WebOP Designer 2.0 which is a software development kit. The PanelExpress 2.0 is a Windows based HMI runtime and equips with the configuration software - WebOP Designer, enables users to utilize the resources of a PC and realize the high-end sophisticated HMI.



Conclusion

Advantech's total solution not only helps system integrators develop a brand new automation system from the stand-alone operation to an integrated solution but also allows users upgrade its management efficiency from passive maintenance to active management while reducing labor and management costs. Through the database, Advantech's solution even allows administrators to analyze its process work and quickly prioritize process improvement initiatives.

Project Implementation

Product	Description
Web0P-2070T	7" WVGA Operator Panel with WebOP Designer 2.0 Software
EKI-2728	8-port Gigabit Unmanaged Industrial Ethernet Switch
EKI-4524	24-port Ethernet Switch with Wide Temperature
TPC-1571H	15" XGA TFT LED LCD Intel Atom Dual-Core D525 Touch Panel Computer
Panel Express 2.0	Windows based HMI runtime Software

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Global Technical Support Network

Providing superior self-support mechanisms is one of the most essential parts of being a top-tier automation company, and we take pride in the outstanding level of service that we offer. To best support our customers, we've created a suite of useful interactive online tools.



Timely Service

Advantech's well-established technical support systems transform your ideas into reality and achieve highly adaptable, just-in-time response.

Local Support

With service teams in each major operating region, we support service through an extensive global network of offices and an industry-leading eBusiness infrastructure designed to provide responsive service that benefits customers anytime, anywhere.

Online Video Tutorials

This tutorial will take you step-by-step through the process and these video tutorials have been developed to help you to understand and make the best use of operator panels. Trainees get real-time integrated information.

Customized Driver Support

Even though WebOP Designer supports over 300 PLC controller drivers, some products may not be supported, but the driver list is growing everyday. Contact us for details on the driver you need.

Online Technical Support Services

WebOP Designer makes it easy to create applications with an intuitive and user-friendly interface, that is flexible and efficient between systems, machines and operators. Therefore, Advantech provides online technical support services for customers to reduce the total cost of ownership during the development and operation. Downloadable software tools and documentation makes it easy to get started. A wide selection of ready-made objects and functions make it easy to create applications through online function block example sharing. You can easily download from our web-site to shorten development time. Also, the forum community is established to encourage discussions which provides valuable information exchange.

The WebOP website contains various information which helps users to know more about WebOP. The complete range of products can be found in this website. The online community forum helps to solve the problems immediately. Tutorial video guides users to operate WebOP series products easily. The applications of the WebOP series can be found in a vertical solutions page. Users can download the latest software from the website. Users can find frequently asked questions on the webpage, or contact Advantech for helps through the WebOP mini-site. For more information, please go to official WebOP website http://www.advantech.com/webop/



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Supported PLC Controllers

Direct Link (COM)

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Brand	Model	PC/Simulation	WinCE(ARN
A&D Company Ltd.	AD-4401 Weighing Indicator	CAD401.dll	CAD401_A.dll
ABIDO Automation Co., Ltd.	ACR420 984 Device/Slave (RTU)		C2C032_A.dll
ADLEE POWERTRONIC CO., LTD.	MS/AP/AS Series Inverter (RTU)		CAPINV_A.dll CAPIPM_A.dll
	BL/D305 Series (RTU) Null PLC		COOOOO A.dll
Advantech	ADAM (Modbus RTU)	C2C031.dll	C2C031_A.dll
	ADAM-4000 (ASCII)	CM4000.dll	CM4000_A.dll
AIGO Technologies Corporation	SE500 Series (Modbus RTU)	C87001.dll	C87001_A.dll
	Micrologix 1000/1500		C10001_A.dll
	SLC 5/03, 5/04 DH-485 (COM)		C10002_A.dll
Allen Bradley	PLC-5	C10005.dll	C10005_A.dll
	SLC 5/03, 5/04 (CRC)	C10006.dll	C10006_A.dll
	CompactLogix/ControlLogix Tag	C10101.dll	N/A
ARICO Technology	FC Type(Modbus)	Carfc01.dll	Carfc01_A.dll
	Modbus Master (RTU)		C2C021_A.dll
Astraada HMI	Modbus Device/Slave (RTU) Modicon Device/Slave (RTU, Quantum)		C2C031_A.dll
	Modbus Master (RTU; Non-volatile slave data)	CAD-401. dll C22032.dll CAPHW.dll CAPHW.dll CAPPM.dll C00000.dll C20031.dll C4M900.dll C4M900.dll C4M7001.dll C10001.dll C10003.dll C10005.dll C10005.dll C10005.dll C10005.dll C10005.dll C10005.dll C10005.dll C10005.dll	C2C121_A.dll
Automation Technology Co., Ltd.	BLDC NLV/KLV Series	CAK200.dll	CAK200_A.dll
Banner Engineering Int'l Inc.	BSP01 Series	C51011.dll	C51011_A.dll
CAPAC	TC	CCAP01.dll	CCAP01_A.dll
CHINO Corporation	DB1000 Digital Indicating Controller (ASCII)		CCDB1k_A.dll
	NFO Controllers		CCMZ051_A.dll
DBAT Cintoni Flotternini	FCT Controllers SD Drivers		CCMZ151_A.dll
CMZ Sistemi Elettronici	SDS Drivers		CCMZ251_A.dll CCMZ351_A.dll
	MDM Drivers		CCMZ451_A.dll
Crouzet Ltd.	M3 SLIN/SLOUT Protocol	CCZ001.dll	N/A
CTB Technologies Corporation	IMS Servo Controller	N/A	N/A
Danfoss Group	VLT 2800 Series (FC Protocol)		CDAVLT_A.dll
DEIF A/S	Modbus RTU (COM port)		C2C082_A.dll
	WSS/WSS-L DVP-ES/SS/EP/EH		CDEI01_A.dll C16001_A.dll
	DVP-ES/SS/EP/EH DVP-ES/SS/EP/EH (No block read)		C16001_A.dll
	VFD-M Inverter (ASCII)		C16011_A.dll
	VFD-B Inverter (ASCII)	C16021.dll	C16021_A.dll
Delta Corporation	DTC1000/2000 Temperature (ASCII)		C16031_A.dll
	DTA Temperature (ASCII)		C16032_A.dll
	ASDA-A Servo Controller (ASCII) ASDA-B Servo Controller (ASCII)		C16041_A.dll C16051_A.dll
	ASDA-A2 Servo Controller (ASCII)		C16061_A.dll
lirise Electric Technology Co.,Ltd.	DRS2000 Series Inverter		N/A
onise Electric recrimology co.,Ltu.	DRS2800 M Series Inverter		CFDSR01_A.dll
merson Network Power	EC Series (RTU)		C81001_A.dll
Epson Corporate	EV1000 Series Variable Speed Driver Epson LQ Matrix Printer		C81011_A.dll CEPSONO_A.dll
psoil corporate	Eura EF1S/1N		C2B001_A.dll
	Eura EF2N		C2B041_A.dll
	Eura Inverter (Modbus RTU)	C5A003.dll	C5A003_A.dll
	Eura Inverter (Modbus ASCII)		C5A004_A.dll
	Eura EF200-CPU202(Modbus RTU) Eura EF200-CPU202XP/CPU204(Modbus RTU)		C5A005_A.dll C5A006_A.dll
	Eura EF200-CPU204XP/CPU204(Modbus RTU) Eura EF200-CPU204XP/CPU206(Modbus RTU)		C5A006_A.dil
Eura Drivers Electric Corp.	Eura EF300-CPU304(Modbus RTU)		C5A007_A.dll
•	Eura EF300-CPU306(Modbus RTU)	C5A007.dll	C5A007_A.dll
	Eura Servo Drive (Modbus RTU)		C5A00A_A.dll
	Eura Servo Drive (Modbus ASCII)		C5A00B_A.dll
	Eura HFR1000 (Modbus RTU) Eura HFR1000 (Modbus ASCII)		C5A00C_A.dll C5A00D_A.dll
	Eura HFR2000 (Modbus RTU)		C5A00E_A.dll
	Eura HFR2000 (Modbus ASCII)		C5A00F_A.dll
atek Automation Corp.	FATEK FBs/FBe	C1A001.dll	C1A001_A.dll
esto Corporation	FPC/FEC Series	C1C001.dll	C1C001_A.dll
	NB Series		C1D001_A.dll
wii Flantsia Communities	PXR Series Temperature (RTU) FRENIC-VP (RTU)		C1D011_A.dll C1D021_A.dll
uji Electric Corporation	FRENIC-VP (RTU) FRENIC5000G11/P11 (Fuji)		C1D021_A.dll
	FRENIC-Mini/Eco/Multi/Mega(RTU)		C1D051_A.dll
VK Automation Co., Ltd.	F Series Inverter	CFDSR01.dll	CFDSR01_A.dll
	90 Series SNP	C1E001.dll	C1E001_A.dll
E Corporation	VersaMax Series (SNP)		C1E001_A.dll
•	90 and RX3i Series (SNP) 90 Series CCM		C1E001_A.dll
	SE5000		C87002_A.dll
igarise Technology Co., Ltd.	GA400 Temperature (RTU)		C90012_A.dll
OFAST Corporation	NC Series	C42001.dll	C42001_A.dll
laiwell Technology Co., Ltd	HW Series (RTU)	CHW001.dll	CHW001_A.dll
lanbell Precise Machinery Co., Ltd.	Air Screw Compressor	CHANASC.dll	CHANASC_A.dll
	SJ200 Inverter		C1F001_A.dll
Photological Control of the Control	H/EH Series		C1F020_A.dll
litachi Industrial Equipment Systems Co., Ltd	EHV Series (Procedure 1) H-252C		C1F021_A.dll C1F022_A.dll
	H-252C AD Series Servo Drives		C1F022_A.dll CHA04LS_A.dll
	AD Series Servo Drives Computer as Slave (COM)		CO2001_A.dll
	Computer as Master (COM)		C02001_A.dll
Ph I	Computer as Slave V2 (COM)		N/A
litech	Ouripator do oldro viz (doin)	C02031 dll	C02031_A.dll
litech	Computer as Master V2 (COM)		
			CHLP01_A.dll
	Computer as Master V2 (COM) HLP-C+/CP BACnet/MSTP	CHLP01.dll N/A	N/A
IOLIP ELECTRONIC TECHNOLOGY CO., LTD	Computer as Master V2 (COM) HLP-C+/CP BACnet/MSTP BACnet	CHLP01.dll N/A cbacnet.dll	N/A N/A
IOLIP ELECTRONIC TECHNOLOGY CO., LTD	Computer as Master V2 (COM) HLP-C+/CP BACnet/MSTP BACnet Modbus Device/Stave (RTU, 255)	CHLP01.dll N/A cbacnet.dll CHON01.dll	N/A N/A CHON01_A.dll
Hitech HOLIP ELECTRONIC TECHNOLOGY CO., LTD Honeywell	Computer as Master V2 (COM) HLP-C+/CP BACnet/MSTP BACnet	CHLP01.dll N/A cbacnet.dll CHON01.dll	N/A N/A

Brand	Model	PC/Simulation	WinCE(ARM
Idec Corporation	FC Series	C22001.dll	C22001_A.dll
ECCO	Sinus Penta Inverter (RTU)	Ciecco.dll	Ciecco_A.dll
	H2u (CPU Port)	C2B041.dll	C2B041_A.dll
novance Control Technology Co., Ltd.			
	IS Servo (RTU)	C2C051.dll	i
ntegrated Flow Systems	iPurge Source Controller	CIF001.dll	CIF001_A.dll
nvt Auto-Control Technology	IVC Series	C81003.dll	C81003_A.dll
ETTER	NANO Series		
	JetControl 24x Senes IRIS Series		
aint Book Suaton Corn	JUPITER Series	C2C031.dll	C2C031_A.dll
omt Peer Systec Corp.	PDAN Series	C2C031.dll	C2C031_A.dll
	PDS Series		
	KV-1000	C25001.dll	C25001_A.dll
eyence Corp.	KV-L20V	C2201 dll	<u> </u>
	KV-3000		
inco Automation Ltd.			-
lockner Moeller Corporation	SUCONET K		
	K Sequence Series	C27001.dll	C27001_A.dll
oyo Electric Corp.	Direct Logic Series		
enze Drive Systems GmbH	93xx Servo Controllers (LECOM A/B)		1
	Master-K Series CNet		C28001_A.dll
	K120S CPU Port		
	Master-K Loader GLOFA GM Series CNet		
G Industrial Systems	XBM+DR16S		
	GLOFA GM Loader	C28041.dll	C28041_A.dll
	XEC/XGI CNet		
	XGT/XGK (CPU) XGL-C22A		
C Curatama	LGA Series(as Slave)		
G System	LGA Series (as Master)	CLGLGB.dll	CLGLGB_A.dll
iyan Electric Industrial Ltd.	EX Series (CPU Port)		
ust Antriebstechnik GmbH	LustBus ServoC/CDE Series		
	FP Series Computer Link		
latsushita Electric Works	VFOC Series Inverter		
	VF100 Series Inverter	C29011.dll	C29011_A.dll
laxtech	MC2 PID Controller		
	PRETA MC Spring (DTI I)		
*			
IIKOM ELECTRICAL TECHNOLOGY	MX Series PLC		
lirle Automation Corporation	nDX Controller		
	Melsec-FX (CPU Port)		C2B001_A.dll
	Melsec-Q/QnA (Link Port)		
	Melsec-Q02 (CPU Port)		
	Melsec-Q02U (CPU Port)		
	Melsec-Q00J (CPU Port)		
	Melsec-FX3U (Link Port)		
	Melsec-AnN/AnS (Link Port)	C2B061.dll	C2B061_A.dll
	Melsec-AnN/AnS Protocol 4		-
	FX2n-10GM/20GM Melsec-A1S/A2S (CPLI Port)		
grated Flow Systems	FR-E500 Series (485)		
	Melsec-A3N/A1SH (CPU Port)	C2B0A1.dll	C2B0A1_A.dll
	Melsec-AnA/AnU (Link Port)		_
	Melsec-AnA/AnU Protocol 4 Servo Amplifier MR-J2S-A		
	Servo Amplifier MR-J3-A		i
	Servo Amplifier MR-J4-A	N/A	C2B163_A.dll
	Melsec-A2A/A2AS (CPU Port)		
	Melsec-Q03U (CPU Port)		
	Melsec-Q00U (CPU Port)	C2B191.dll	C2B191_A.dll
	GOT-F900 Emulator (1:1 Format 1 & 2)	C2B201.dll	N/A
litutovo Cornoration	Melsec-Q01U (CPU Port) EV Linear Gage Counter (ASCII)	C2B191.dll CMITDEV.dll	C2B191_A.dll CMITDEV_A.dll
πατογο συτροταί!ΟΙΙ	EV Linear Gage Counter (ASCII) Modicon 984 Master (RTU)	C2C021.dll	C2C021_A.dll
	Modicon 984 Master (RTU; Little Memory)	C2C022.dll	C2C022_A.dll
	Modicon 984 Device/Slave (RTU)	C2C031.dll	C2C031_A.dll
	Modbus Master (ASCII)	C2C061.dll	C2C061_A.dll
	Modbus Master (ASCII; Little Memory) Modbus Device/Stave (ASCII)	C2C062.dll	C2C062_A.dll
lodicon Corp.	Modbus Device/Slave (ASCII) Modicon Device/Slave (RTU, Quantum)	C2C071.dll C2C081.dll	C2C071_A.dll C2C081_A.dll
	TSX Premium (Uni-Telway)	C2C0A1.dll	C2C0A1_A.dll
	TSX Quantum (Uni-Telway)	N/A	N/A
	Twido (Modbus RTU)	C2C0C1.dll	C2C0C1_A.dll
	Modbus Master (RTU; Non-volatile slave data)	C2C121.dll	C2C121_A.dll
ITC	Modbus Master (ASCII; Non-volatile slave data) MTC96 Controller (Modbus ASCII)	C2C161.dll C93001.dll	C2C161_A.dll C93001_A.dll
			CCM117L_A.dll
Juscle Cornoration Inc	Cool Muscle CM1-17L30	CCM117L.dll	

	PSTC (Temperature Controller)	C2C051.dll	C2C051_A.dll
	PSIC (Temperature Controller) PSBD (Bushless Driver)	C2C051.dll	C2C051_A.dll
ewtop Co., Ltd.	PSSD (Stepping Driver)	C2C051.dll	C2C051_A.dll
	PSMC (Motion Controller)	C2C051.dll	C2C051_A.dll
	PSNC (Embedded NC)	C2C051.dll	C2C051_A.dll
	Sysmac C Series Host Link	C2D001.dll C2D011.dll	C2D001_A.dll
	Sysmac CV Series Host Link Sysmac CS/CJ Series Host Link	C2D011.dll C2D021.dll	C2D011_A.dll C2D021 A.dll
	Sysmac CS/CJ Series Host Ellik Sysmac CS/CJ Series (FINS)	C2D021.dll	C2D021_Adii
	Sysmac CP Series (FINS)	C2D021.dll	C2D021_A.dll
Omron Corporation	E5CN Temperature (CompoWay/F)	C2D041.dll	C2D041_A.dll
	E5CN Temperature (Modbus RTU)	C2D051.dll	C2D051_A.dll
	EJ1 Temperature (CompoWay/F)	C2D061.dll	C2D061_A.dll
	KM100 (CompoWay/F)	C2D071.dll	C2D071_A.dll
	3G3MV Inverter (RTU)	C2D081.dll	C2D081_A.dll
lan Claha Carr	E9 Temperature Series E904 Temperature (RTU)	C90001.dll	C90001_A.dll
an-Globe Corp.	HT Series Temperature (KTU) HT Series Temperature Controller	C90011.dll	C90011_A.dll
	FP Series	C29001.dll	C29001_A.dll
Panasonic Corporation	MINAS A4 Series	CPANA4.dll	CPANA4_A.dll
	Null PLC	C00000.dll	C00000_A.dll
	N-to-1 Master (COM)	C01001.dll	C01001_A.dll
	Multi-drop Client (COM)	C01011.dll	C01011_A.dll
	General Device (COM)	C01051.dll	C01051_A.dll
	2-to-1 Server (COM)	C01061.dll	C01061_A.dll
	2-to-1 Transparent Server (COM)	N/A	N/A
	2-to-1 Transparent Server for Modbus Device/Slave (RTU)	C01063.dll	C01063_A.dll
	2-to-1 Transparent Server for Omron Sysmac C Series Host Link 2-to-1 Client (COM)	C01064.dll	C01064_A.dll
	2-to-1 Client (COM) Serial Gateway Server	C01071.dll	C01071_A.dll
	Data Sharer (RS485)	N/A	C01S01_A.dll
	Modbus Master (RTU)	C2C041.dll	C2C041_A.dll
anelMaster	Modbus Master (RTU; Little Memory)	C2C042.dll	C2C042_A.dll
	Modbus Master (RTU; Non-volatile slave data)	C2C043.dll	C2C043_A.dll
	Modbus Device/Slave (RTU)	C2C051.dll	C2C051_A.dll
	Modbus Device/Slave (RTU, 16Words)	C2C051.dll	C2C051_A.dll
	Modbus Device/Slave (Word order in big-endian)	C2C052.dll	C2C052_A.dll
	Modbus Device/Slave (RTU; No block read)	C2C051.dll	C2C051_A.dll
	Modbus Device/Slave (RTU, 30Words)	C2C051.dll	C2C051_A.dll
	Modbus Device/Slave (ASCII)	C2C093.dll	C2C093_A.dll
	Modbus Device/Slave (ASCII; No block read) Barcode Scanner	C2C093.dll cbcode.dll	C2C093_A.dll cbcode_A.dll
	Epson Matrix Printer	CEPSONO.dll	CEPSONO_A.dll
	PC Series PLC Module	C1A001.dll	C1A001_A.dll
Parker Hannifin	Compax3	C32001.dll	C32001_A.dll
	HID Series (X4 RS232 Port)	Cpark1.dll	Cpark1_A.dll
Parker Hannifin S.p.A.	SLVDN Series (X1 RS422/485 Port)	Cpark2.dll	Cpark2_A.dll
PORIS	XC Modbus RTU	C2C031.dll	C2C031_A.dll
	El-500 Series (RTU)	CEI500.dll	N/A
RICH Electric Co., LTD.	El-9001 Series (RTU)	CEI9001.dll	N/A
RKC Instrument Inc.	MA900/CB900 Series (RTU)	C82001.dll	C82001_A.dll
AKO IIISUUIIIEIU IIIC.	CD/CH Series (ASCII)	C82002.dll	C82002_A.dll
Saia Burgess	PCD Series (S-Bus PGU)	C31001.dll	C31001_A.dll
	PCD Series (S-Bus, Data Mode)	C31003.dll	C31003_A.dll
Samwon Technology	NOVA Series (RTU) NOVA Series	C88001.dll C88002.dll	C88001_A.dll
	ATV31 Inverter (RTU)	C2C051.dll	C88002_A.dll C2C051_A.dll
Schneider Electric	Lexium 23 Servo Controller (ASCII)	C16041.dll	C16041_A.dll
Sharp Corporation	JW10/20 Series	CSJW10.dll	CSJW10_A.dll
Shenzhen Sine Electric Co., Ltd	EM303A	CSIN01 dll	CSIN01_A.dll
	Kingo Servo Controller	C50001.dll	
Shenzhen Step Servo Ltd. Shenzhen V&T Technologies Co.,Ltd	V5-H	C50001.dll	C50001_A.dll
Shenzhen Xilin Electric Tech. Co., Ltd.	Inverter EH series (RTU) SH Inverter	CSXE01.dll	CSXE01_A.dll
Shihlin Electric&Engineering Corp.		CSSH01.dll	CSSH01_A.dll
SHIMAX CO., LTD.	MAC3 Series (RTU) CPT-20A MODBUS DEVICE/SLAVE (ASCII)	CSHI01.dll CSCCT1.dll	CSHI01_A.dll
Shinko Technos Co., Ltd.	CPT-20A MODBUS DEVICE/SLAVE (ASCII) JCS-33A-R/M (Shinko Protocol)	CSCC11.dll CSJCS01.dll	CSCCT1_A.dll CSJCS01_A.dll
minico recinius co., E.U.	JCS-33A-R/M (Modbus ASCII)	CSJCS01.dll	CSJCS01_A.dil
	Simatic S7-200 (PPI; 1-to-1)	C39001.dll	C39001_A.dll
	Simatic S7-200 (PPI; Network)	N/A	N/A
Siemens AG	Simatic S7-300 (MPI Port)	N/A	N/A
olemens Ati	Simatic S7-300 (PC Adaptor)	C39031.dll	C39031_A.dll
	Simatic S5 3964R	C39041.dll	C39041_A.dll
	Simatic S5	C39051.dll	C39051_A.dll
aian Automation Co.,Ltd.	TP03 Series (Modbus RTU)	C51011.dll	C51011_A.dll
	TP02 Series TAIE FY100/900 Series (RTU)	C51021.dll	C51021_A.dll
Taiwan Instrument & Control Co. 1 td	TAIE FY100/900 Series (RIU) TAIE FY100/900 Series (TAIE)	CFY001.dll CFY002.dll	N/A N/A
aiwan Instrument & Control Co., Ltd.	FY series DIGITAL PID CONTROLLER	CFY0U2.dll CTAIEFY.dll	N/A N/A
	TSDA Series AC Servo	C51001.dll	C51001_A.dll
	TP03 Series (Modbus RTU)	C51001.dll	C51001_A.dll
eco Electric & Machinery Co.,Ltd.	TP02 Series	C51021.dll	C51021_A.dll
	TSTA Series AC Servo	C51031.dll	C51031_A.dll
ESHOW ELECTRONIC.	MY90V/MY40V Series (RTU)	CMY901.dll	CMY901_A.dll
exas Instruments Incorporated	TI505	CTI505.dll	CTI505_A.dll
hinget Electronic Co., Ltd.	XC Series Controller (RTU)	C89001.dll	C89001_A.dll
ieon Electronics Co., Ltd.	IPC-03 Series (RTU)	C83001.dll	C83001_A.dll
Little onios UU., Lttl.	TTX-700 (Modbus RTU)	C3D001.dll	C3D001_A.dil
OHO Electronics Inc.	TTM-000 Series (TOHO Protocol)	C3D001.dll	C3D001_A.dll
	TTM-200 Series (TOHO Protocol)	C3D003.dll	N/A
OKY ELECRTICAL	DW8-CD18B	CTDW80.dll	CTDW80_A.dll
okyo Keiso	UCM-04A	CTK001.dll	CTK001_A.dll
oshiba Schneider Inverter Corporation	TOSVERT VF Series(Modbus RTU)	C84001.dll	C84001_A.dll
שטיישים שטייים ווועכו וכו החווים מייים		C4A001.dll	C4A001_A.dll
	Vision 120 Series (Morthus RTI)		
Unitronics	Vision 120 Series (Modbus RTU) VI26/30 Series Controllers (RTII)		
	Vision 120 Series (Modbus RTU) VT26/30 Series Controllers (RTU) MV/B Series	CWT26.dll C42001.dll	CVVT26_A.dll C42001_A.dll

Brand	Model	PC/Simulation	WinCE(ARM
VIPA GmbH	VIPA 100V/200V MPI Port	N/A	N/A
	Null PLC	C00000.dll	C00000_A.dll
	N-to-1 Master (COM)	C01001.dll	C01001_A.dll
Vware	Multi-drop Client (COM)	C01011.dll	C01011_A.dll
	General Device (COM)	C01051.dll	C01051_A.dll
	Data Sharer (RS485)	N/A	C01S01_A.dll
Wanfeng Electric	WF Series	C42001.dll	C42001_A.dll
VADOO	Hospital System	CYHS01.dll	CYHS01_A.dll
YABOS	Dentists	CYHS02.dll	CYHS02_A.dll
YAMAHA MOTOR CO., LTD.	Single-axis Robot Controller ERCD	CYAERCD.dll	CYAERCD_A.dll
	SDC35/36 Temperature (RTU)	C44001.dll	C44001_A.dll
	SDC35/36 Temperature (ASCII)	C44011.dll	C44011_A.dll
	MA500 FA Controller (ECL Host)	C44021.dll	C44021_A.dll
Yamatake Corporation	DMC10 Controller (RTU)	C44031.dll	C44031_A.dll
	DMC10 Controller (ASCII)	C44041.dll	C44041_A.dll
	MX30	CYaMX30.dll	CYaMX30_A.dll
	MX50	CYaMX50.dll	CYaMX50_A.dll
	Σ-II SGDM/H Series AC Servo	C45001.dll	C45001_A.dll
Yaskawa Corporation	MP Series Controller (Memobus)	C45011.dll	C45011_A.dll
raskawa Gurpuration	V7 inverter (Memobus)	C45021.dll	C45021_A.dll
	NS600 Servo Controller	C45031.dll	C45031_A.dll
YE-LI ELECTRIC & MACHINERY Co., Ltd.	YPV Servo Controller	cyeli1.dll	cyeli1_A.dll
TE-LI ELECTRIC & MACHINERY CO., LIU.	YJD Servo Controller	cyeli2.dll	cyeli2_A.dll
Yokogawa Electric Corporation	FA-M3 Series (CPU Port)	C46001.dll	C46001_A.dll
Wedien Automotion Technology Ltd	AI-7048 (AiBus)	C47001.dll	C47001_A.dll
Yudian Automation Technology Ltd.	Al518/708/808/518P/708P/808P Controller (Albus)	C47011.dll	C47011_A.dll
Zhuhai Motion Control Motor Co., Ltd.	BP Series PSDA driver (RTU)	C2CBP1.dll	N/A

Direct Link (Ethernet)

	BACnet/IP	N/A	N/A
dvantech	BAS BACnet/IP		
uvanteun	ADAM-6000 (ModBus TCP/IP)		
	MicroLogix 1000/1500 via 1761-NET-ENI		
Allen Bradley	MicroLogix 1000/1500 Wa 1761-NE1-ENI		
mon bradiej	CompactLogix/ControlLogix Ethernet/IP Tag		
	ModBus Master (TCP/IP)		
	ModBus Device/Slave (TCP/IP)	C2C011.dll	C2C011_A.dll
Astraada HMI	ModBus Master (TCP/IP; Type 2)	C2C101.dll	C2C101_A.dll
	ModBus Device/Slave (TCP/IP; Type 2)	C10E01.dll C10E02.dll C20E011.dll C20E02.dll C20E011.dll C20E02.dll C2E02.dll	C2C111_A.dll
Bosch Rexroth	ModBus Device/Slave (TCP/IP; Type 2)	C2C111.dll	C2C111_A.dll
CMZ Sistemi Elettronici	FCT Controllers(TCP/IP; Type 2)	Cmz111.dll	
DEIF A/S	TCP/IP Modbus (Ethernet port)	C2C112 dll	
EasylO	EasylO-30 (RTU)		
Fatek Automation Corp.	Fatek FBs/FBe (TCP)		
esto Corporation	FPC/FEC EasyIP		
GE Corporation	SRTP Ethernet		
	SRTP Ethernet (Micro)		
litachi Industrial Equipment Systems Co., Ltd	EH/EHV Series (Ethernet; TCP)		
	EH/EHV Series (Ethernet; UDP)		
Honeywell	BACnet/IP		
JETTER	JetControl 24x Series (Ethernet)		
Keyence Corp.	KV-5000	C25041.dll	C25041_A.dll
Lenze Drive Systems GmbH	E94AYCEN GCI(TCP/IP) Protocol	CLZ003.dll	CLZ003_A.dll
LG Industrial Systems	XGT/XGK (CPU)	C28081.dll	C28081_A.dll
Mirle Automation Corporation	Fama SoftPLC Ethernet	C19E01.dll	C19E01_A.dll
wine Automation corporation	ModBus Device/Slave (TCP/IP)		CM6M00_Adll
	Q Ethernet		
Mitsubishi Electric Corp.	Q Ethernet (ASCII code)		
	Melsec-FX3U (MC-Protocol)		CM8M00_Adl C16601_Adl C16602_Adl C26001_Adl C26001_Adl C26011_Adl C26111_Adl C26111_Adl C26111_Adl C26111_Adl C26111_Adl C26111_Adl C26112_Adl C16101_Adl C26111_Adl C16001_Adl
	ModBus Master (TCP/IP)		
Modicon Corp.	ModBus Device/Slave (TCP/IP)		
	ModBus Master (TCP/IP; Type 2)		
	ModBus Device/Slave (TCP/IP; Type 2)		
Omron Corporation	Sysmac CS/CJ Series FINS/TCP		
Panasonic Corporation	FP Series Computer Link		
	N-to-1 Master (Ethernet)		
	N-to-1 Slave (Ethernet)		
	TCP/IP Gateway Server		
PanelMaster	Data Sharer (UDP)		
	Ping Ping Topus		
	Modbus Device/Slave (TCP/IP)		
	Internal Memory Server		
nonie	Internal Memory		
PORIS	XC ModBus TCP		
Saia Burgess	PCD Series (Ether-S-Bus)		
	Simatic S7-300 Ethernet Module (CP343)		
Siemens AG	SIMATIC S7 (Ethernet)		
	SIMATIC S7-200 SMART (Ethernet)		
TPM	EPC-1000		
/ware	N-to-1 Master (Ethernet)		
	N-to-1 Slave (Ethernet)		
NAGO Kontakttechnik GmbH & Co. KG	WAGO-I/O-SYSTEM 750		
Yaskawa Corporation	ModBus Device/Slave (TCP/IP)		
	Extended MEMOBUS		
Yokogawa Electric Corporation	FA-M3 Series (UDP)		
rokogawa Electric onthoration	FA-M3 Series (TCP)	C46003.dll	C46003 A.dll

The listing brand names are in alphabetical order.

• Driver Programs may be updated at any time, please contact with your Advantech representative at any time to confirm latest information. Key Features:
High-performance discrete drive to support high data acquisition.
The Communication speed of Simatic S7-300 (MPI port) can reach 187.5 kbps without adapter.

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		Kuala Lumpur	60-3-7725-4188				
		Penang	60-4-537-9188	UK			
				Reading	44-0118-929-4540		
		Indonesia		Poland			
		Jakarta	62-21-769-0525	Warsaw	48-22-33-23-740 / 4	1	
		Thailand		Russia			
		Bangkok	66-2-248-3140	Toll Free	8-800-550-01-50		
				Moscow	7-495-232-1692		
		India					
		Toll Free	1-800-425-5070				
		Bangalore	91-80-2545-0206				
		Australia					
		Toll Free	1300-308-531				
		Melbourne	61-3-9797-0100				
		Sydney	61-2-9476-9300				

