# **Intelligent Operator Panels**

**Enabling Comprehensive Connectivity with Powerful HMI Software** 

- / Introduction
- / Product Portfolio
- / Features & Functions
- / Software Features
- Successful Applications
- √ Easy control for process visualization
- √ Real-time communication and data acquisition
- ✓ Integrated equipment connectivity solution







# **WebOP Series**

To satisfy strict industry standards for automation products, particularly products designed for packaging, label slitting, and motion-based robotic dispensing applications, Advantech developed a series of RISC-based operator panels, available in sizes ranging from 4.3" to 12.1".

To meet the various requirements of diverse applications, Advantech offers two series of operator panels – The WOP-2000T series equipped with a real-time OS and WebAccess/HMI and the WA-HT3000T series equipped with Microsoft® Windows Embedded CE 6.0 OS and WebAccess/HMI.

## **Software**

Advantech's WebAccess/HMI is powerful human-machine interface (HMI) software aimed at application development and monitoring of PLCs, motion/thermal controllers, inverters, and factory sensors. This user-friendly development platform supports the collection of machine data to facilitate operations analysis for increased efficiency and reduced resource costs.



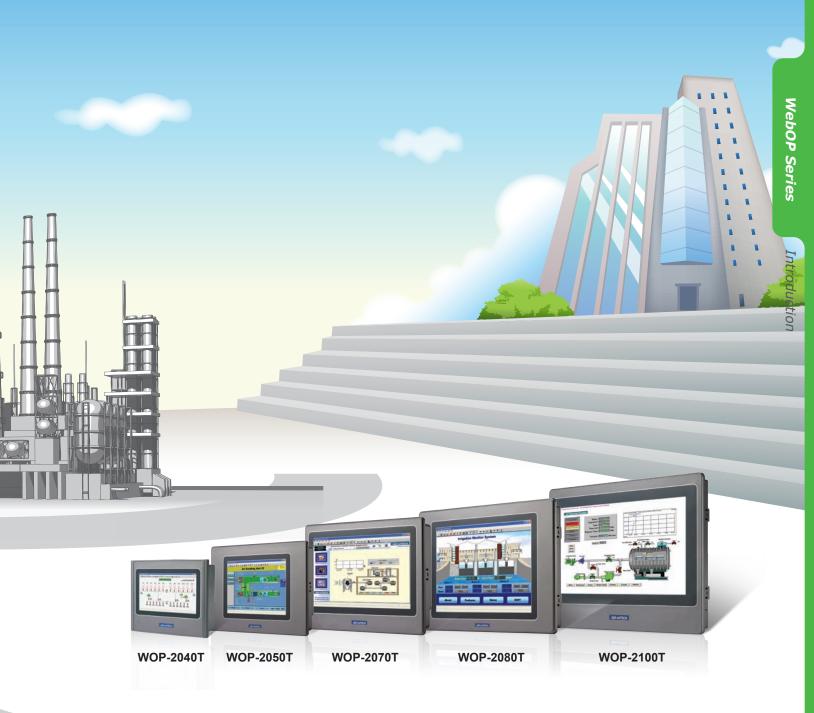


- Equipment integration and production data acquisition, communication, and upload
- Suitable for diverse applications in the food and beverage, electronics manufacturing service textile, and pharmaceutical industries

# **Hardware and Communication**

- Compact, flat-sealed design with IP66 rating
- Provides real-time communication with minimal latency
- Enables Ethernet-based data acquisition and bi-directional control
- · Supports diverse communication interfaces





# **HMI Software: WebAccess/HMI**

- Supports over 450 PLC communication protocols
- WebAccess/HMI Designer software compatible with Windows XP/Vista/7/10
- WebAccess/HMI Runtime enables project file execution

# **Technical Support**

- Supports PLC driver development
- Training tutorial available for download at http://www.advantech.com/WebOp

# **WebOP-2000/3000 Series Selection Guide**







	Model	WOP-3070T	WOP-3100T	WOP-3120T
Part Number		WA-HT3070T-R15H0AE	WA-HT3100T-R15H0AE	WA-HT3120T-R15H001
CPU			ARM® Cortex™-A8 32-bit RISC processor, 600 MHz	
Backup	Viemory		1 MB FRAM	
Working	Memory		256 MB DDR2	
Storage	-		512 MB onboard (SLC type)	
Operatin	g System		Microsoft® Windows CE 6.0	
•	Туре	WVGA (16:9) TFT LCD	WSVGA (16:9) TFT LCD	XGA (4:3) TFT LCD
	Size	7"	10.1"	12"
	Max. Resolution	800 x 480	1024 x 600	1024 x 768
lay	Max. Colors	65,536 colors	65,536 colors	65,536 colors
Display	Luminance	500 cd/m2	550 cd/m2	500 cd/m2
	Viewing Angle (H/V)	140°/120°	140°/110°	160°/140°
	Backlight LED	50,000 hrs	50,000 hrs	50,000 hrs
	Dimming	Adjustable	Adjustable	Adjustable
Touchscreen		5-wire analog resistive	5-wire analog resistive	5-wire analog resistive
Power-On LED		Yes	Yes	Yes
_	COM1	RS-232/422/485 (DB9)	RS-232/422/485 (DB9)	RS-232/422/485 (DB9)
Communication Interface	COM2	RS-422/485 (4-pin terminal plus grounding) with isolation protection	RS-422/485 (4-pin terminal plus grounding) with isolation protection	RS-422/485 (4-pin terminal plus grounding) with isolation protection
nmunicat Interface	COM3	RS-485 (2-pin terminal) with isolation protection	RS-485 (2-pin terminal) with isolation protection	RS-485 (2-pin terminal) with isolation protection
Com	CAN	2-pin terminal with isolation protection	2-pin terminal with isolation protection	2-pin terminal with isolation protection
	Ethernet (RJ45)	1 x 10/100 Base-T	1 x 10/100 Base-T	1 x 10/100 Base-T
	USB	1 x USB 2.0 client 1 x USB 2.0 host (top)	1 x USB 2.0 client 1 x USB 2.0 host (top)	1 x USB 2.0 client 1 x USB 2.0 host (top)
s0/	Micro SD Slot	Yes	Yes	Yes
	Audio	1 x Line Out, 1 x Mic In	1 x Line Out, 1 x Mic In	1 x Line Out, 1 x Mic In
	Power Isolation	Yes	Yes	Yes
Power S	upply Voltage	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%
Power C	onsumption	7W	9W	12W
Dimensi	ons (W x H x D)	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")
Cutout D	imensions (W x H)	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")
Unit Enclosure		Die-cast aluminum alloy front bezel	Die-cast aluminum alloy front bezel	Die-cast aluminum alloy front bezel
Net Weight		1 kg (2.20 lb)	1.2 kg (2.65 lb)	2.5 kg (5.51 lb)
Operating Temperature		-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)
Humidity		10% ~ 90% RH @ 40 °C, non-condensing	10% ~ 90% RH @ 40 °C, non-condensing	10% ~ 90% RH @ 40 °C, non-condensing
Ingress I	Protection	IP66-rated front panel	IP66-rated front panel	IP66-rated front panel
Certifica	tion	CE, FCC, BSMI, CCC, UL, UL 508	CE, FCC, BSMI, CCC, UL, UL 508	CE, FCC, BSMI, CCC, UL, UL 508











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
	32-bit RISC processor, MHz	ARM® Cortex™-A8 32-bit RISC processor, 200 MHz		32-bit RISC processor, MHz		32-bit RISC processor, MHz	ARM® Cortex™-A8 3	32-bit RISC processor, MHz
	3 KB	128 KB		3 KB		3 KB		KB
32 MB	SDRAM	32 MB SDRAM	32 MB	SDRAM	32 MB	SDRAM	32 MB	SDRAM
8 MB NOR Flash	8MB NOR Flash	8 MB NOR Flash	8 MB NOR Flash	8MB NOR Flash	8 MB NOR Flash	8MB NOR Flash	8 MB NOR Flash	8 MB NOR Flash
-	128 MB NAND Flash	128 MB NAND Flash	-	128 MB NAND Flash	-	128 MB NAND Flash	-	128 MB NAND Flash
HMII	RTOS	HMI RTOS	HMI	RTOS	HMI	RTOS	HMI	RTOS
WQVGA (16	3:9) TFT LCD	QVGA TFT LCD	WVGA (16:	9) TFT LCD	SVGA T	FT LCD	WSVGA	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	3 colors	65,536 colors	65,536	3 colors	65,536	3 colors	65,536	colors
400 0	cd/m2	330 cd/m2	300 (	cd/m2	250	od/m2	250 c	ed/m2
100	°/95°	130°/110°	140°	/130°	140°	/130°	140°	/110°
20,00	00 hrs	20,000 hrs	20,00	00 hrs	30,0	00 hrs	20,00	00 hrs
Adjus	stable	Adjustable	Adju	stable	Adju	stable	Adjus	stable
4-wire anal	log resistive	4-wire analog resistive	4-wire ana	log resistive	4-wire ana	log resistive	4-wire anal	og resistive
Y	'es	Yes	Y	es	Yes		Yes	
RS-232/422/48	85 (DB9 female)	RS-232/422/485 (DB9 female)	RS-232/422/485 (DB9 female)		RS-232/422/485 (DB9 female)		RS-232/422/485 (DB9 female)	
RS-422/485 (5-p	in plug connector)	RS-422/485 (5-pin plug connector)	RS-422/485 (5-p	in plug connector)	RS-422/485 (5-p	in plug connector)	RS-422/485 (5-pi	in plug connector)
RS-232 (COM	11: Pins 5, 7, 8)	RS-232 (COM1: Pins 5, 7, 8)	RS-232 (CON	11: Pins 5, 7, 8)	RS-232 (COM	11: Pins 5, 7, 8)	RS-232 (COM	1: Pins 5, 7, 8)
-	-	-	-	-	-	-	-	-
-	1 x 10/100 Base-T	-	-	1 x 10/100 Base-T	-	1 x 10/100 Base-T	-	1 x 10/100 Base-T
	2.0 client .0 host (top)	1 x USB 2.0 client 1 x USB 2.0 host (top)		2.0 client 0 host (top)		2.0 client 0 host (top)	1 x USB 1 x USB 2.	
-	Yes	Yes	-	Yes	-	Yes	-	Yes
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%
	2 x 36.4 mm 18 x 1.43")	188 x 143.3 x 30 mm (7.4 x 5.64 x 1.18")		.3 x 30 mm 64 x 1.18")	231.5 x 174.6 x 37 mm (9.11 x 6.87 x 1.46")		269.8 x 212 x 37.4 mm (10.62 x 8.35 x1.47")	
	92.5mm x 3.64")	175 x 132.5mm (6.89 x 5.21")		32.5mm < 5.21")	221 x 164 mm (8.70 x 6.46")		259.5 x 2 (10.22 :	
PC + ABS	PC + ABS	PC + ABS	PC + ABS	PC + ABS	PC + ABS	PC + ABS	PC + ABS	PC + ABS
0.3 kg	(0.66 lb)	0.51 kg (1.12 lb)	0.6 kg	(1.32 lb)	0.93 kg	(2.05 lb)	1.2 kg (	(2.64 lb)
0 ~ 50 °C (	32 ~ 122 °F)	0 ~ 50 °C (32 ~ 122 °F)	0 ~ 50 °C (	32 ~ 122 °F)	0 ~ 50 °C (	32 ~ 122 °F)	0 ~ 50 °C (3	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	O °C, non-condensing	10% ~ 90% RH @ 4	O °C, non-condensing	10% ~ 90% RH @ 40	°C, non-condensing
IP66-rated	I front panel	IP66-rated front panel	IP66-rated	front panel	IP66-rated	front panel	IP66-rated	front panel
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, BSMI, CCC, UL	

# **WebOP Series Features**

Advantech's WebOP series of operator panels feature a range of display sizes (from 3.5" to 12.1") and support multiple communication interfaces, including RS-232/422/485, Ethernet, and USB, to ensure convenient integration with diverse equipment. The provision of durable hardware, an IP66-rated front panel, and a wide operating temperature range (0  $\sim$  50 °C) make the WebOP series ideal for operation in harsh industrial environments.

Moreover, to facilitate equipment connectivity and data acquisition, the operator panels are equipped with Advantech's WebAccess/HMI software, which supports over 450 PLC communication protocols, including those used by Allen Bradley® MicroLogix™, Modicon™, Quantum™ series controllers; GE Fanuc's Series 90-30 PLCs; Siemens' SIMATIC S7 controllers; Mitsubishi's FX/Q-Series PLCs; Omron's Sysmac C/CV/CS/CJ-Series PLCs; and Yaskawa's MP series of machine controllers.



#### **Diverse Panel Sizes**

Display panel sizes range from 4.3" to 12.1" to satisfy the needs of various applications.



#### **Level 4 ESD Protection**

The WebOP series panels offer Level 4 ESD protection (8 kV contact discharge and 15 kV air discharge) in compliance with the IEC61000-4-2 standard.



# **Panel Mounting**

The WebOP series support panel mount for flexible installation.



# **High-Performance Memory**

The operator panels feature 512/128MB of onboard flash memory (only WA-HT3000T series) and 128k of backup FRAM.



#### **Independent Isolation**

The I/O ports and power sockets are equipped with electrical isolation, surge protection, and noise suppression (only HA-HT series).





## **Micro SD Extension**

The provision of a micro SD slot enables the integration of additional data storage.



# **Versatile I/O Ports**

The panels offer a variety of RS-232/422/485, Ethernet, and USB 2.0 host/client ports.



## **IP66-Rated Front Panel**

All panels are equipped with an IP66-rated front panel that protects against water and dust ingress to ensure suitability for industrial applications.



# **PLC Connectivity**

The WebOP series panels support over 450 PLC protocols to ensure connectivity with all leading brand PLCs.

# WebAccess/HMI

Advantech's WebAccess/HMI is powerful yet intuitive software for creating comprehensive HMI solutions. The ease of integration makes WebAccess/HMI a suitable development tool for diverse application fields. WebAccess/HMI features utility programs, such as a recipe editor, text editor, and data transfer helper (DTH), and supports solution-oriented screen objects, high-end vector graphics, data and operation logging, online/offline simulations, and Microsoft Windows fonts for multi-language applications. Included in the WebAccess/HMI package is an HMI Runtime engine that guarantees reliable open platform performance with minimal system overheads, high data communication rates, sub-second screen switching, and 24/7 operation.







## **WebAccess/HMI Designer**

- Project development software compatible with Windows XP/ Vista/7/10
- · Supports offline simulation for previewing projects
- Supports online simulation for validating operations
- Features rich object libraries, a recipe editor, and alarm functions



#### **WebAccess/HMI Runtime**

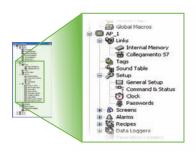
- Project execution software
- Diverse options for RTOS, WinCE, Win 7, and Win 10
- Features a watchdog function for 24/7 operation
- Enables real-time data acquisition

# WebAccess/HMI Features

## Efficient Project-Based Structure for Managing Multiple Applications

#### Project Manager

- · Supports multiple applications in a single project
- Project tree provides all necessary tools for project management
- Global settings and resources can be applied to all project applications
- Optimize existing projects by importing/exporting settings for diverse functions



## **Smart Screen Management**

#### Screen Manager

- Application screen numbers and names can be displayed as text or thumbnails
- Screens can be selected for editing, cutting, copying, deleting, or exporting
- · Create/import screens via a pop-up menu
- · Simply click on a screen to view connections
- Double-click on a screen to access its property dialogue box

List View



Thumbnail View



Screen Overview



## **Custom Keypad Layouts**

#### **Keypad Design and Settings**

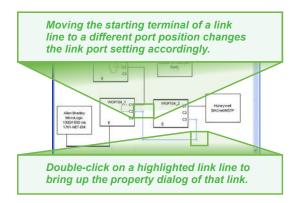
 Users can customize the keypad layout according to specific applications.



# **Graphical Tool for Communication Visualization**

#### Link Overview

- Provides an overview of the communication between applications in a single project, allowing users to easily view all project screens and device connections
- Enables users to create panel applications and communication links with top-down design flow



## **Diverse Application-Oriented Objects**

#### WebOP Icon Database

 Rich object libraries enable users to easily create professional project screens



WebOP symbols (.BMP)

## Display All Objects and Associated I/Os

#### Object List

- All used objects and their properties can be displayed in a list
- Users can directly edit the I/O address of any object on the list



# WebAccess/HMI Features

#### **Intuitive Macro Commands Editor**

#### Macro Commands Editor

 The ability to edit macro commands is useful for logical processes such as sequential operations, conditional operations, interactive operations, file operations, and data exchanges between devices.







**Macro Editor** 

#### **Anti-Piracy Functions**

#### Advanced Object Settings

- All buttons, switches, and data entry objects can be disabled or dynamically hidden for increased security.
- Macros can be configured to set a specific input range for a data input object and a minimum holding time for a button object.







#### **Easy Access to Error Messages**

#### Compiler Messages

- Verify the accuracy and consistency of all settings to optimize communications between connected devices
- Convert macros into compact codes ready for execution
- Compile runtime data to be executed by the WebOP panel



# **Text Mapping Table Supports Multiple Languages**

#### Text Database and Editor

 The text database support multiple languages, ensuring easy content editing and display.



Import/Export from or to Excel

## **Security for Intellectual Property**

#### **Password Protection**

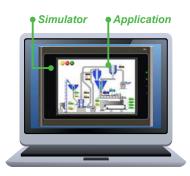
 The copying/uploading of applications and editing of project files, global macros, and databases can be password protected for security.



# **Increase Performance with Advanced Simulations**

#### Offline and Online Simulations

- The offline simulation function allows users to preview projects.
- The online simulation function allows users to view device operation when connected.



Offline Simulation

## **Automatic Scaling for Different Screen Sizes**

#### Automatic Display Adjustment

 For displays with different resolutions, all screen objects are automatically resized to ensure the relative object position and size ratios are retained.



5.7" 640x480

7" 800x480

# **Alarm Monitoring and Display Functions**

#### Alarm Processing

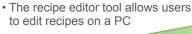
- Up to 64 discrete alarm blocks and 64 analog alarm blocks can be monitored and recorded.
- Up to 8 data values can be read and recorded for every alarm event.
- · A global alarm marquee is supported.



# **Comprehensive Recipe Handling**

#### Recipe Blocks

- · Supports up to 16 groups of recipes
- Supports transfers of recipe files between WebOP panels and PLCs





# Supports Dynamic Data Scales and Time Ranges for Complex Applications

#### Axis Scale Setting for Trend Charts

 With support for dynamic range scaling, screen objects can be used to adjust the trend chart ranges.



#### Flexible Software for Diverse Automation Needs

#### High Connectivity for Various Devices

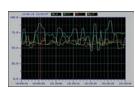
- Offers 4 communication links for the WOP-2000 series
- Offers 8 communication links for the WA-HT series
- Enables connection with a PC, PLC, and barcode scanner
- Features 1 startup macro, 1 main macro, 4 event macros, and 4 time macros
- Supports 16 sets of discrete alarms, analog alarms, recipe blocks, data loggers, and operation loggers
- · Provides 1 operation logger



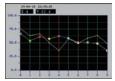
# **Configurable Data Acquisition and Display**

#### Data Loggers

- Users can save/load collected data (from up to 16 data sources) to/from a file via a function button or macro program.
- Collected data and event logs can be displayed in tabular form in historical event tables.



 Historical trend graph displays collected data in trend lines



 Single-record line chart displays the profile of one sample from a set of collected data.

# **Operation Logging for Optimization**

## **Operation Logging**

All application start/stop times can be recorded to improve efficiency.

 Communication link failures can be recorded for analysis.

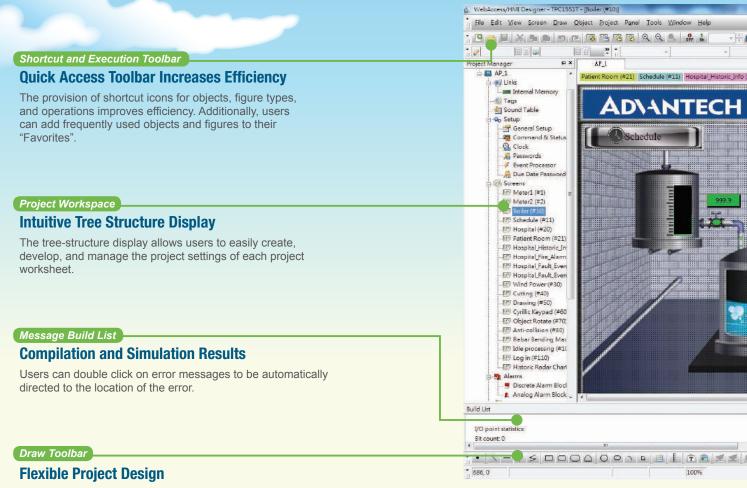
 All operations can be logged and displayed for review.



Operation Log Display

# **WebAccess/HMI Designer**User-Friendly HMI Development Tool

WebAccess/HMI Designer is a powerful and user-friendly HMI development tool aimed at industrial applications. This software allows project files to be directly downloaded to WebOP panels via Ethernet cables for immediate application updates.



WebAccess/HMI Designer offers a variety of drawing tools for flexible project design.

# User Interface Features

- · Allows users to switch UI language dynamically
- · Supports Unicode and multilingual screen text
- Supports password protection for macro editing and upload/download operations
- Provides index registers for modifying device addresses at runtime.



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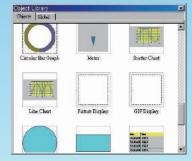
m (#23) | Hospital\_Fault\_Event (#24) | Wind Power (#30) | Cutting (#40) | 80 | 4 | 1 | 5 | x







# **Rich Object Library**



Using the rich object libraries, users can easily add objects by simply dragging and dropping an object icon onto a project worksheet.



## **Component Editing Bar**

With the editing toolbar, users can flexibly add/remove project components and objects.

#### Dialog Box



## **Quick Access to Settings**

Users can double click an object or figure to view the attribute settings in a dialog box.

- Supports operation logging for subsequent review and analysis
- Project files can be transferred to WebOP panels via a serial, Ethernet, or USB port or a micro SD card

# **Successful Applications**

# **Advantech Provides a Total Automation Solution for a Fiberglass Manufacturer**



## Introduction

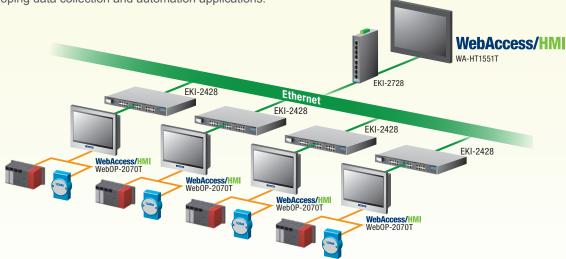
One of the largest fiberglass manufacturers in Southeast Asia engaged in manufacturing and distributing electronic- and industrial-grade fiberglass yarn and electronic-grade fiberglass cloth for reinforcing and insulating printed circuit boards (PCBs) wanted to increase the level of production automation at its facilities in order to improve monitoring and management and reduce manual data entry errors.

#### **System Requirements**

To replace the original production infrastructure of stand-alone machines, the company required a total automation solution that included terminals for controlling and monitoring textile machinery, reliable network connectivity for accurate data transmissions, as well as a powerful computer to act as a centralized control server for managing large amounts of data. In addition to the solution hardware, a user interface based on an HMI Runtime development software design and suitable for textile machines and industrial panel PCs was also required.

#### **System Diagram**

Overall, 84 of Advantech's WOP-2070T 7" WVGA operator panels were installed on the company's production lines to collect data from various devices, such as PLCs, drivers, and stepper motors. The collected data is then transmitted to a TPC-1571H 15" touch panel computer in the backend control center via two Ethernet switches. Equipped with an ARM9-based RISC processor (200 MHz), 128MB of flash memory, and support for numerous industrial communication protocols, Advantech's WOP-2070T terminal offers a flexible monitoring solution with an outstanding price/performance ratio. The inclusion of Advantech's WebAccess/HMI software provides an efficient tool for developing data collection and automation applications.



#### **Benefits**

Advantech's total automation solution not only transforms stand-alone machines into an integrated factory automation and monitoring solution, but also upgrades operations from passive to active management while reducing overall costs. Moreover, the machine data collected by Advantech's solution allows managers to analyze operations and prioritize improvement initiatives to increase manufacturing efficiency and productivity.

#### **Project Implementation**

Part Number	Description
W0P-2070T	7" WVGA operator panel with WebAccess/HMI software
EKI-2728	Unmanaged industrial Ethernet switch with 8 Gigabit ports
EKI-2724	Unmanaged industrial Ethernet switch with 24 Gigabit Ethernet ports and 4 Gigabit Ethernet combo ports
WA-HT1551T	15" TFT LCD Windows-based thin client terminal with WebAccess/HMI Runtime
WebAccess/HMI	HMI software

Enabling Comprehensive Connectivity with WebAccess/HMI Software





# WebOP-2000G Industrial Data Gateway

Advantech's new industrial data gateway – WebOP-2000G – rounds out its WebOP industrial automation product line. Designed to provide a convenient interface for data collection, WebOP-2000G features versatile I/O and supports over 450 PLC communication protocols for diverse integration. Additionally, WebOP-2000G is pre-installed with Advantech's WebAccess/HMI software package, which comprises WebAccess/HMI Designer and WebAccess/HMI Runtime, to enable easy project development, design, simulation, and execution.

Equipped with WebAccess/HMI utility programs that feature solution-oriented objects, recipes, alarms, and data and operation loggers, WebOP-2000G provides an incredibly flexible and cost-efficient solution for industrial data acquisition applications.



- · WebAccess/HMI software pre-installed
- 1 x LAN, 1 x RS-232, 1 x RS-232/485, 1 x RS-232/422/485, 1 x USB 1.1 (host), 1 x USB 2.0 (client)
- · Dual-power input for enhanced operational stability
- 1 x industrial-grade SD card (1 GB) for data storage
- Supports DIN rail and wall mounting

# **ADVANTECH**

Enabling an Intelligent Planet

14

WebOP Series

# Advantech Global Support Network

# **Enabling an Intelligent Planet**

To provide prompt and convenient customer service, Advantech maintains a global presence both online and offline. In addition to several websites that offer comprehensive product information, technical support, software downloads, and online assistance, including www.advantech.com, buy.advantech.com, and support.advantech.com, Advantech has established regional service centers in all major countries worldwide for customers who prefer a more personalized approach. This global support network enables Advantech to provide customers with prompt and reliable service from any location at any time using live chat, telephone, and/or email.

# **40 Teams in 27 Cities Providing Global Support**



#### 24/7 Online Service



To effectively respond to customers' questions, our regional call centers support inquiries about: purchasing, shipping, technical, RMA issues and more. Contact your regional call center to get the support you need today.

#### **Global Hotlines**

US /Canada	1-888-576-9668	China	800-810-0345/8389	Russia	8-800-555-01-50 (Moscow) 8-800-555-81-20 (St. Petersburg)
Mexico	52-01-800-467-2415	Taiwan	0800-777-111	India	1-800-425-5070/71
Colombia	57-1381-2858	Japan	0800-500-1055	Thailand	66-2-248-3140
Brazil	0800-770-5355	Korea	080-363-9494/9495	Indonesia	62-21-7511939
	00800-2426-	Singapore	65-6442-1000	Malaysia (KL)	60-3-7725-4188
Europe	8080/8081	Australia/ New Zealand	1300-308-531	Malaysia (Penang)	60-4-537-9188

#### **Advantech.com Website**

Through www.advantech.com, we not only offer comprehensive products, but also real-time updated information to our customers. In addition to product information, you also can find case studies of proven applications from diverse sectors. Furthermore, registered MyAdvantech members, can access the RMA service center, updated price lists, and various promotion programs.



## **Online Support**

Advantech takes pride in offering an outstanding level of service. Because an essential part of being a top-tier automation company is providing advanced self-support mechanisms, Advantech has created the following highly useful interactive online tools aimed at best supporting customers:

- Technical documentation downloads, including manuals, datasheets, drivers, and utilities
- 3D product models for detailed visualization
- · Online self-training documents and videos
- Online catalogs with comprehensive product information

#### **Minisite**



To expand the support provided, Advantech launched a specific WebOP minisite featuring extensive online resources and a comprehensive list of FAQs aimed at assisting customers with reducing the total cost of ownership. This minisite also includes downloadable software and documentation for easing setup and implementation, tutorial videos that provide product and application guidance, diverse pre-made objects and function blocks that accelerate application development, and community forums to encourage discussion and information exchanges. Mini-site: www.advantech.com.tw/webop

#### **Global Customer Support Services**

Advantech's global customer support network allows the company to provide localized service and optimized support plans that leverage its full service portfolio to reduce costs and proactively mitigate business risks. In addition to complete technical support, Advantech provides a variety of after-sales services, including warranty extension, advance replacement, upgrades, rapid repairs, etc. With knowledgeable local service teams located around the world, Advantech has the ability to provide consistent and highly responsive support tailored to your requirements.

- 24/7 technical support
- Global deployment with local full-line repair capability
- Easy-to-use web-based repair and tracking system (eRMA)
- · Various value-add, after-sales service packages











Fast Repair





Upgrade











# Supported PLC Protocol List

# **Direct Link (COM)**

ABIDO Automation Co., Ltd.	ACR420 984 Device/Slave (RTU)	C2C032	C2C032_A.dl	C2C032.dll
DLEE POWERTRONIC CO., LTD.	MS/AP/AS Series Inverter (RTU) BL/D305 Series (RTU)	CAPINV	CAPINV_A.dll CAPIPM_A.dll	CAPINV.dll CAPIPM.dll
	Null PLC	C00000	C00000_A.dl	C00000.dll
Advantech	ADAM (Modbus RTU) MAS Controller (Modbus RTU)	C2C031	C2C031_A.dll C2C031_A.dll	C2C031.dll C2C031.dll
	PCM-27D24DI(16DI/8DO) ADAM-4000 (ASCII)	CAPCM1 CM4000	N/A CM4000_A.dll	CAPCM1.dll CM4000.dll
AIGO Technologies Corporation	SE500 Series (Modbus RTU)	C87001 C10001	C87001_A.dll	C87001.dll
	Micrologix 1000/1500 SLC 5/03, 5/04	C10001 C10002	C10001_A.dll C10002_A.dll	C10001.dll C10002.dll
Allen Bradley	DH-485 (COM) PLC-5	C10003 C10005	N/A C10005_A.dll	C10003.dll C10005.dll
Teles I Littleway	SLC 5/03, 5/04 (CRC)	C10006	C10006_A.dll	C10006.dll
	DF1 CompactLogix/ControlLogix Tag	C10007 C10101	N/A N/A	C10007.dll C10101.dll
ARICO Technology	FC Type(Modbus)  Modbus Master (RTU)	Carfc01 C2C021	Carfc01_A.dll C2C021_A.dll	Carfc01.dll C2C021.dll
Astraada HMI	Modbus Device/Slave (RTU)	C2C031	C2C031_A.dll	C2C031.dll
	Modicon Device/Slave (RTU, Quantum)  Modibus Master (RTU; Non-volatile slave data)	C2C081 C2C121	C2C081_A.dl C2C121_A.dl	C2C081.dll C2C121.dll
Automation Technology Co., Ltd. Banner Engineering Int'l Inc.	BLDC NLV/KLV Series BSP01 Series	CAK200 C51011	CAK200_A.dll C51011_A.dll	GAK200.dll C61011.dll
CANGNAN INSTRUMENT FACTORY CAPAC	LWQZ series	CCNM01	CCNM01_A.dll	CCNM01.dll
CHINO Corporation	TC DB1000 Digital Indicating Controller (ASCII)	CCAP01 CCDB1k	CCAP01_A.dll CCDB1k_A.dll	CCAP01.dll CCDB1k.dll
	NF0 Controllers FCT Controllers	CCMZ051 CCMZ151	CCMZ051_A.dll CCMZ151_A.dll	CCMZ051.dll
CMZ Sistemi Elettronici	SD Drivers	CCMZ251	CCMZ251_Adll	CCMZ251.dll
	SDS Drivers	CCMZ351	CCMZ351_A.dll	CCMZ351.dll
Crouzet Ltd.	MDM Drivers  M3 SLIN/SLOUT Protocol	CCMZ451 CCZ001	CCMZ451_A.dll CCZ001_A.dll	CCMZ451.dll
CTB Technologies Corporation	IMS Servo Controller	CAA001	N/A	N/A
Danfoss Group DEF A/S	VLT 2800 Series (FC Protocol)  Modbus RTU (COM port)	CDAVLT C2C082	CDAVLT_A.dll C2C082_A.dll	CDAVLT.dll C2C082.dll
na No	WSS/WSS-L DVP-ES/SS/EP/EH	CDEI01 C16001	CDEI01_Adil C16001_Adil	CDEI01.dll C16001.dll
	DVP-ES/SS/EP/EH (No block read)	C16001	C16001_A.dll	C16001.dll
	DVP-SV(RTU) DVP-SV (ASCII)	C16003 C16004	C16003_A.dll C16004_A.dll	C16003.dll C16004.dll
	VFD-M Inverter (ASCII) VFD-B Inverter (ASCII)	C16011 C16021	C16011_A.dll C16021_A.dll	C16011.dll C16021.dll
Delta Corporation	DTC1000/2000 Temperature (ASCII)	C16031 C16032	C16031_A.dll C16032_A.dll	C16031.dll C16032.dll
	DTA Temperature (ASCII)  DTE Temperature (ASCII)	C16033	N/A	C16033.dll
	ASDA-B Servo Controller (ASCII)  ASDA-B Servo Controller (ASCII)	C16041 C16051	C16041_A.dll C16051_A.dll	C16041.dll C16051.dll
	ASDA-A2 Servo Controller (ASCII)  DRS2000 Series Inverter	C16061 C15101	C16061_A.dll N/A	C16061.dll N/A
Dirise Electric Technology Co.,Ltd.	DRS2800 M Series Inverter	CFDSR01	CFDSR01_A.dll	CFDSR01.dll
Emerson Network Power	EC Series (RTU)  EV1000 Series Variable Speed Driver	C81001 C81011	C81001_A.dll C81011_A.dll	C81001.dll
Epson Corporate	Epson LQ Matrix Printer  Eura EF1S/1N	CEPSON0 C2B001	CEPSON0_A.dll C2B001_A.dll	CEPSON0.dll C2B001.dll
	Eura EF2N	C2B041	C2B041_A.dll	C2B041.dll
	Eura Inverter (Modbus RTU) Eura Inverter (Modbus ASCII)	C5A003 C5A004	C5A003_A.dll C5A004_A.dll	C5A003.dll C5A004.dll
	Eura EF200-CPU202(Modbus RTU)  Eura EF200-CPU202XP/CPU204(Modbus RTU)	C5A005 C5A008	C5A005_A.dll C5A006_A.dll	C5A005.dll C5A008.dll
Eura Drivers Electric Corp.	Eura EF200-CPU204XP/CPU206(Modbus RTU) Eura EF300-CPU304(Modbus RTU)	C5A007 C5A007	C5A007_A.dll C5A007_A.dll	C5A007.dll C5A007.dll
cura briva's deciric corp.	Eura EF300-CPU306(Modbus RTU)	C5A007	C5A007_A.dll	C5A007.dll
	Eura Servo Drive (Modbus RTU)  Eura Servo Drive (Modbus ASCII)	C5A00A C5A00B	C5A00A_A.dll C5A00B_A.dll	C5A00A.dll C5A00B.dll
	Eura HFR1000 (Modbus RTU) Eura HFR1000 (Modbus ASCII)	C5A00C C5A00D	C5A00C_A.dll C5A00D_A.dll	C5A00C.dll C5A00D.dll
	Eura HFR2000 ( Modbus RTU )	C5A00E	C5A00E_A.dll	C5A00E.dll
Fatek Automation Corp.	Eura HFR2000 (Modbus ASCII)  FATEK FBs/FBe	C5A00F C1A001	C5A00F_A.dll C1A001_A.dll	C5A00F.dll C1A001.dll
Festo Corporation	FPC/FEC Series FR100/200/300 Series Inverter (Modbus RTU)	C1C001 CFREC0	C1C001_A.dll N/A	C1C001.dll CFREC0.dll
Frecon Electric (Shenzhen) Co., Ltd.	PL80 Series (Modbus RTU) NB Series	CFREC1 C1D001	N/A C1D001_A.dll	CFREC1.dll C1D001.dll
	PXR Series Temperature (RTU)	C1D011	C1D011_A.dl	C1D011.dll
Fuji Electric Corporation	FRENIC-VP (RTU) FRENIC5000G11/P11 (Fuji)	C1D021 C1D031	C1D021_A.dll C1D031_A.dll	C1D021.dll C1D031.dll
FVK Automation Co., Ltd.	FRENIC-Mini/Eco/Multi/Mega(RTU)  F Series Inverter	C1D051 CFDSR01	C1D051_A.dll CFDSR01_A.dll	C1D051.dll CFDSR01.dll
FVK Automaton Co., Etc.	90 Series SNP	C1E001	C1E001_Adll	C1E001.dll
GE Corporation	VersaMax Series (SNP) 90 and RX3i Series (SNP)	C1E001	C1E001_Adll C1E001_Adll	C1E001.dll C1E001.dll
	90 Series CCM SE5000	C1E011 C87002	C1E011_A.dll C87002_A.dll	C1E011.dll C87002.dll
Gigarise Technology Co., Ltd.	GA400 Temperature (RTU)	C90012	C90012_A.dll	C90012.dll
GOFAST Corporation Haiwell Technology Co., Ltd	NC Series HW Series (RTU)	C42001 CHW001	C42001_A.dll CHW001_A.dll	C42001.dll CHW001.dll
Hanbell Precise Machinery Co., Ltd.	Air Screw Compressor SJ200 Inverter	CHANASC C1F001	CHANASC_A.dll C1F001_A.dll	CHANASC.dl C1F001.dll
	H/EH Series EHV Series (Procedure 1)	C1F020 C1F021	C1F020_A.dll	C1F020.dll C1F021.dll
Hitachi Industrial Equipment Systems	H-252C	C1F022	C1F022_A.dll	C1F022.dll
,	H/EH Series (Procedure 2) H/EH Series (newCmd)	C1F023 C1F025	N/A N/A	C1F023.dll C1F025.dll
	EHV Series (Procedure 1) (newCmd)  AD Series Servo Drives	C1F026 CHA04LS	N/A CHA04LS_A.dll	C1F028.dll CHA04LS.dll
	Computer as Slave (COM)	C02001	C02001_A.dll	C02001.dll
Hitech	Computer as Master (COM) Computer as Slave V2 (COM)	C02011 C02021	C02011_A.dll N/A	C02011.dll N/A
HOLIP ELECTRONIC TECHNOLOGY CO., LTD	Computer as Master V2 (COM)  HLP-C+/CP	C02031 CHLP01	C02031_A.dll CHLP01_A.dll	C02031.dll CHLP01.dll
CO., LTD HollySys	LE5108 (Modbus RTU)	CHOLY0	CHOLY0_A.dll	CHOLY0.dll
	BACnet/MSTP BACnet	cbacrest cbacnet	N/A N/A	N/A cbacnet.dll
Honeywell	Modbus Device/Slave (RTU, 255)  Modbus Device/Slave (RTU, 255, NoBlock)	CHON01	CHON01_A.dll	CHON01.dll
Hunjoen Electronic Co., Ltd.	H_Tech PID CONTROLLER	CHON01 Chtech1	CHON01_A.dll Chtech1_A.dll	CHON01.dll Chtech1.dll
HUST Automation Inc.	CNC Controller New CNC Controller	CHCNC01 CHCNC02	CHCNC01_A.dll CHCNC02_A.dll	CHCNC01.dl CHCNC02.dl
	CNC Controller (GCODE)	CHCNC03	N/A	CHCNC03.dll
Idec Corporation	FC Series Sinus Penta Inverter (RTU)	C22001 Ciecco	C22001_A.dll Ciecco_A.dll	C22001.dll Giecco.dll
	iSmart Series (Modbus RTU) XEC-DxxxH (Modbus RTU)	CIMO01 CIMO11	CIMO01_A.dll CIMO11_A.dll	CIMO01.dll CIMO11.dll
	i3 (Modbus RTU) XBM-DR16S	CIMO21 CIMO31	CIMO21_A.dll N/A	CIMO21.dll CIMO31.dll
	JAGUAR - CUB/VXR/VXG/VXA/VXH	CIMO41	N/A	CIMO41.dll
	XGB - XEC H (CPU) iStep	CIMO51 CIMO61	N/A CIMO61_A.dll	CIMO51.dll CIMO61.dll
IMO	Barcode Scanner	cbcode	cbcode_A.dl	cbcode.dll
	General Device (COM)  Modbus Device/Stave (RTU)	C01051 C2C051	C01051_A.dll C2C061_A.dll	C01051.dll C2C051.dll
	Modbus Device/Slave (Word order in big-endian)	C2C052 C2C041	C2C052_A.dl	C2C052.dll
	Modbus Master (RTU)			
	Modbus Master (RTU) Modbus Master (RTU; Little Memory)	C2C042	C2C041_A.dll C2C042_A.dll	C2C042.dll
	Modbus Master (RTU) Modbus Master (RTU; Little Memory) Modbus Master (RTU; Little Memory) Modbus Master (RTU; Non-volatile slave data) H2u (CPU Port) MD Series Inverter (RTU)			

Brand	Model	W0P-2000T	Panel Express	W0P-3000T
Integrated Flow Systems Invt Auto-Control Technology	Purge Source Controller  IVC Series	CIF001 C81003	CIF001_A.dll C81003_A.dll	ClF001.dll C81003.dll
JETTER	NANO Series  JetControl 24x Series	C24001 C24011	C24001_A.dll C24011_A.dll	C24001.dll C24011.dll
	RIS Series JUPITER Series	C2C031 C2C031	C2C031_A.dll C2C031_A.dll	C2C031.dll C2C031.dll
Joint Peer Systec Corp.	PDAN Series	C2C031	C2C031_A.dll	C2C031.dll
	PDS Series KV Series	C2C031 C25001	C2C031_A.dll C25001_A.dll	C2C031.dll C25001.dll
Keyence Corp.	KV-1000 KV-L20V,KV-NANO	C25011 C25021	C25011_A.dll C25021_A.dll	C25011.dll C25021.dll
	KV-120 KV-3000	C25022 C25031	C25022_A.dll C25031 A.dll	C25022.dll C25031.dll
Kinco Automation Ltd.	Kinoo ED Series PS4-201-MM1	CKIN01 C26001	CKIN01_A.dll	CKIN01.dll C26001.dll
Klockner Moeller Corporation	SUCONET K	CSUK01	C26001_A.dll N/A	N/A
Kee Seate See	K Sequence Series Direct Logic Series	C27001 C27011	C27001_A.dll C27011_A.dll	C27001.dll C27011.dll
Koyo Electric Corp.	Direct 06 Series (K Sequence) Direct 06 Series (DirectNET)	C27021 C27031	C27021_A.dll C27031_A.dll	C27021.dll C27031.dll
Lenze Drive Systems GmbH	93xx Servo Controllers (LECOM A/B)  Mischer-K Series CNet	CLZ001 C28001	CLZ001_A.dll C28001 A.dll	CLZ001.dll C28001.dll
	K120S CPU Port	C28011	C28011_A.dll	C28011.dll
	Master-K Loader GLOFA GM Series CNet	C28011 C28021	C28011_A.dll C28021_A.dll	C28011.dll C28021.dll
LG Industrial Systems	XBM-DR16S GLOFA GM Loader	C28031 C28041	C28031_A.dll C28041_A.dll	C28031.dll C28041.dll
	XEC/XGI CNet XGT/XGK (CPU)	C28051 C28061	C28051_A.dll C28061_A.dll	C28051.dll C28061.dll
	XGL-C22A	C28071	C28071_A.dll	C28071.dll
LG System	LGA Series(as Slave) LGA Series (as Master)	CLGLGA	CLGLGA_A.dl CLGLGB_A.dll	CLGLGA.dll CLGLGB.dll
LiteON Industry Automation Liyan Electric Industrial Ltd.	EVO Inverter Series (RTU)  EX Series (CPU Port)	CLITO1 C2B141	N/A C2B141_A.dll	CLITO1.dll C2B141.dll
Liya'i Eleciric industrial Ltd.	XGB XBM S-series (CPU)	CXGB01	CXGB01_Adll	CXGB01.dll
LSIS Co. Ltd.	XGB - XBC E (CPU)  XGB - XEC H (CPU)	CXGB02 CXGB03	CXGB02_Adll CXGB03_Adll	CXGB02.dll CXGB03.dll
	XGB - XBC E (Dedicated Protocol)  XGB XBCS - CNet	CXGB12 CXGT01	N/A CXGT01 A.dll	CXGB12.dll CXGT01.dll
Lust Antriebstechnik GmbH	LustBus ServoC/CDE Series	Clust1	N/A	Clust1.dll
	LustBus CDD Series  FP Series Computer Link	Clust1 C29001	N/A C29001_A.dll	Clust1.dll C29001.dll
Matsushita Electric Works	FP-X Series VF0C Series Inverter	C29002 C29011	C29002_A.dll C29011_A.dll	C29002.dll C29011.dll
Maxtech	VF100 Series Inverter MC2 PID Controller	C29011 C85001	C29011_A.dll C85001_A.dll	C29011.dll C85001.dll
	MC 5738 (RTU)	C86001	C86001_A.dll	C86001.dll
Maxthermo	MD N2638 (RTU) MDA 8000 (RTU)	C86002 C86003	N/A N/A	C86002.dll C86003.dll
Mean Well Enterprises Co., Ltd. Megmeet	PRETA MC Series (RTU)	CMSMTN C81002	CMSMTN_A.dll C81002 A.dll	CMSMTN.dll C81002.dll
Micro Trend Corporation	UTC400P+	CUTC400 CUTC401	CUTC400_A.dll N/A	CUTC400.dll CUTC401.dll
Micro Trend Corporation	UTC400P+ (for 64) UTC Servo Controller	C91001	C91001_A.dll	C91001.dll
MIKOM ELECTRICAL TECHNOLOGY	MX Series PLC MiniAction (Modbus)	CMIK01 C2C051	CMIK01_A.dll C2C051_A.dll	CMIK01.dll C2C051.dll
Minimotor  Mirle Automation Corporation	DBS (Modbus) nDX Controller	C2C051 C2A001	C2C051_A.dl C2A001_A.dl	C2C051.dll C2A001.dll
mic raterialism surportation	Melsec-FX (CPU Port)	C2B001 C2B011	C2B001_A.dll C2B011 A.dll	C2B001.dll C2B011.dll
	Melsec-Q/QnA (Link Port) Melsec-Q00/01 (CPU Port)	C2B012	C2B012_A.dll	C2B012.dll
	Melsec-Q02H (CPU Port) Melsec-Q02 (CPU Port)	C2B021 C2B022	C2B021_A.dll C2B022_A.dll	C2B021.dll C2B022.dll
	Melsec-Q02U (CPU Port) Melsec-Q00J (CPU Port)	C2B191 C2B031	C2B191_A.dll C2B031_A.dll	C2B191.dll C2B031.dll
	Melsec-FX2n (CPU Port)	C2B041	C2B041_A.dll	C2B041.dll
	Melsec-FX3U (CPU Port) Melsec-FX3U (Link Port)	C2B051 C2B052	C2B051_A.dll C2B052_A.dll	C2B061.dll C2B062.dll
	Melsec-AnN/AnS (Link Port) Melsec-AnN/AnS Protocol 4	C2B061 C2B062	C2B061_A.dll C2B062_A.dll	C2B061.dll C2B062.dll
	FX2n-10GM/20GM	C2B071 C2B081	C2B071_A.dll	C2B071.dll
Mitsubishi Electric Corp.	Melsec-A1S/A2S (CPU Port) FR-E500 Series (485)	C2B091	C2B081_A.dll C2B091_A.dll	C2B081.dll C2B091.dll
	Melsec-A3N/A1SH (CPU Port) Melsec-AnA/AnU (Link Port)	C2B0A1 C2B151	C2B0A1_A.dll C2B151_A.dll	C2B0A1.dll C2B151.dll
	Melsec-AnA/AnU Protocol 4 Servo Amplifier MR-J2S-A	C2B152 C2B161	C2B152_Adll C2B161_Adll	C2B152.dll C2B161.dll
	Servo Amplifier MR-J3-A	C2B162	C2B162_A.dll	C2B162.dll
	Servo Amplifier MR-J4-A Melsec-A2A/A2AS (CPU Port)	C2B163 C2B171	C2B163_A.dll C2B171_A.dll	C2B163.dll C2B171.dll
	Melsec-Q06H (CPU Port) Melsec-Q12H (CPU Port)	C2B181 C2B182	C2B181_A.dll C2B182_A.dll	C2B181.dll C2B182.dll
	Melsec-Q03U (CPU Port) Melsec-Q00U (CPU Port)	C2B183 C2B191	C2B183_A.dll C2B191_A.dll	C2B183.dl C2B191.dl
	GOT-F900 Emulator (1:1 Format 1 & 2)	C2B201	N/A	C2B201.dll
	Melsec-Q01U (CPU Port) Melsec-FX5U	C2B191 C2B301	C2B191_A.dll N/A	C2B191.dll C2B301.dll
Mitutoyo Corporation	EV Linear Gage Counter (ASCII)  Modicon 984 Master (RTU)	CMITDEV C2C021	CMITDEV_A.dll C2C021_A.dll	CMITDEV.dll C2C021.dll
	Modicon 984 Master (RTU; Little Memory)  Modicon 984 Device/Slave (RTU)	C2C022 C2C031	C2C022_A.dll C2C031_A.dll	C2C022.dll C2C031.dll
	Modbus Master (ASCII)	C2C061	C2C061_A.dll	C2C061.dll
	Modbus Master (ASCII; Little Memory)  Modbus Device/Slave (ASCII)	C2C062 C2C071	C2C062_A.dll C2C071_A.dll	C2C062.dll C2C071.dll
Modicon Corp.	Modicon Device/Slave (RTU, Quantum) TSX Premium (Uni-Telway)	C2C081 C2C0A1	C2C081_A.dll C2C0A1_A.dll	C2C081.dll C2C0A1.dll
	TSX Quantum (Uni-Telway) Twido (Modbus RTU)	C2C0B1 C2C0C1	N/A C2C0C1 A.dl	N/A C2C0C1.dll
	Modbus Master (RTU; Non-volatile slave data)	C2C121	C2C121_A.dll	C2C121.dll
	Modbus Device/Slave (RTU; 6-digit Addresses)  Modbus Master (ASCII; Non-volatile slave data)	C2C131 C2C161	N/A C2C161_A.dll	C2C131.dll C2C161.dll
MOTEC MTC	Series MTC96 Controller (Modbus ASCII)	CMTC01 C93001	CMTC01_A.dll C93001_A.dll	CMTC01.dll C93001.dll
	Cool Muscle CM1-17L30	CCM117L	CCM117L_A.dll	CCM117L.dll
	EC Series	C8A001	C8A001_A.dll	C8A001.dll
	VL-CX: Melsec-FX2n (CPU Port)	CN2B41	CN2B41_A.dll	CN2B41.dll
Myiter Control Technology		CN2B41 C2C051 C2C051	CN2B41_A.dll C2C051_A.dll C2C051_A.dll	CN2B41.dll C2C051.dll C2C051.dll
Mylter Control Technology MyTech	VL-CX: Melsec-FX2n (CPU Port) PSTC (Temperature Controller) PSBD (Bushless Driver) PSSD (Stepping Driver)	C2C051 C2C051 C2C051	C2C051_A.dll C2C051_A.dll C2C051_A.dll	C2C051.dll C2C051.dll C2C051.dll
Myiter Control Technology	WCric Metace-PiCin (CPU Port) PSTC (Emprestate Controller) PSSD (Bushless Ehrer) PSSD (Stephing Driver) PSSD (Stephing Driver) PSSMC (Motion Controller) PSMC (Embodied NC)	C2C051 C2C051 C2C051 C2C051 C2C051	C2C051_A.dll C2C051_A.dll C2C051_A.dll C2C051_A.dll C2C051_A.dll	C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll
Myiter Control Technology MyTech	VL-Ck: Melasc-FiCin (CPU Port) PSTC (femperature Controller) PSBD (Bushless Driver) PSBD (Susping Driver) PSBD (Motion Controller)	C2C051 C2C051 C2C051 C2C051	C2C051_A.dll C2C051_A.dll C2C051_A.dll C2C051_A.dll	C2C051.dll C2C051.dll C2C051.dll C2C051.dll
Myiter Control Technology MyTech	MCX Meteo-FXCh (CPU Pert)  SPIC (Temperate Centrole)  PSID (Beguing Dhen)  PSID (Beguing Dhen)  PSID (Beguing Dhen)  PSID (Beguing Dhen)  PSID (Entroleden NC)  Syrman C. Stere Hout Info	C2C051 C2C051 C2C051 C2C051 C2C051 C2C051	C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll	C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll
Myller Corted Technology Myllech Newtop Co., Ltd.	U.C.CX Metter PDI) (EPU PPI)  STET (Enroymatic Control)  SSED Blackters Devel  PSSED Blackters  PSSED Blackters  Sprance CVS Series Polat Link  Sprance CVS Series Polat Link  Sprance CSS CJ Series Polat Link  Sprance C	C2C051 C2C051 C2C051 C2C051 C2C051 C2C051 C2C051 C2D011 C2D011 C2D012 C2D022 C2D022	C2C051_Adll C2C052_Adll C2C052_Adll C2C052_Adll	C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C001.dll C2D011.dll C2D012.dll C2D012.dll C2D012.dll C2D022.dll C2D022.dll
MyTech	U.C.CX Metters PCRI (FEV Per)  FSET C Represents Controlly FSET D Represents Controlly FSET D Represents Controlly FSET D Represents FSET	C2C051 C2C051 C2C051 C2C051 C2C051 C2C051 C2C001 C2D011 C2D012 C2D012 C2D022 C2D022 C2D022 C2D022 C2D022 C2D022 C2D022	C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll C2C001_Adll C2D011_Adll C2D011_Adll N/A C2D022_Adll C2D022_Adll C2D022_Adll C2D022_Adll C2D022_Adll C2D022_Adll C2D022_Adll C2D022_Adll	C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2D011.dll C2D011.dll C2D012.dll C2D022.dll C2D022.dll C2D022.dll C2D022.dll C2D022.dll C2D022.dll C2D022.dll C2D022.dll C2D022.dll
Myllech Myllech Newtop Co., Ltd.	U.C.CX Metters PROI (EPU Pert)  PSTD (Bernperature Controller)  PSSD (Bardress Driver)  PSSD (British Oroller)  PSP (British Oroller)  PSP (British Oroller)  PSP (British Oroller)  ESCON (British Oroller)  ESCON (British Oroller)	C2C051 C2C051 C2C051 C2C051 C2C051 C2C051 C2C051 C2D011 C2D011 C2D012 C2D012 C2D022 C2D022 C2D022	C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll C2C051_Adll C2C001_Adll C2D001_Adll C2D001_Adll C2D001_Adll N/A C2D022_Adll C2D022_Adll C2D022_Adll C2D022_Adll	C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C001.dll C2D001.dll C2D012.dll C2D012.dll C2D012.dll C2D022.dll C2D022.dll C2D022.dll
Myllech Myllech Newtop Co., Ltd.	- UC.S. Mettace P.Cin. (EPU Part) - STST (Timerceature Controller) - PSSID (Bluezheiss Driver) - PSSID (Bluezhe	C2C051 C2C051 C2C051 C2C051 C2C051 C2C051 C2C001 C2D001 C2D012 C2D012 C2D022 C2D022 C2D022 C2D022 C2D021 C2D051 C2D051 C2D071	C20051 Adl C20052 Adl C20052 Adl C20052 Adl C20052 Adl C20053 Adl C20053 Adl C20053 Adl C20054 Adl C200551 Adl C200571 Adl C200571 Adl C200571 Adl C200571 Adl C200571 Adl C200571 Adl	C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2C051.dll C2D012.dll C2D012.dll C2D012.dll C2D022.dll C2D022.dll C2D022.dll C2D021.dll C2D021.dll C2D021.dll C2D021.dll C2D021.dll C2D021.dll C2D021.dll C2D021.dll C2D031.dll
Myller Control Technology MyTech Newtop Co., Ltd. Omeon Corporation	- MucCo Metter PROI (EPU Pero) - STOT (Temperature Controller) - PSSID (Bluezhers Driver) - PSSID (Bluezhers De Bluezhers) - PSSID (Bluezhers De Bluezhers) - PSSID (Bluezhers)	C2C051 C2C0051 C2C0051 C2C0051 C2C0051 C2C0051 C2C0051 C2D001 C2D001 C2D001 C2D002 C2D002 C2D002 C2D002 C2D0051 C2D0051 C2D0051 C2D0051 C2D0061 C2D0061 C2D0061 C2D0061 C2D0061	C20051 Adl C20052 Adl C20052 Adl C20052 Adl C20051 Adl	C2COS1.dll C2COS2.dll C2COS2.dll C2COS2.dll C2COS2.dll C2COS2.dll C2COS2.dll C2COS3.dll
Myllech Myllech Newtop Co., Ltd.	U.C.C. Matter POID (FPU PRV)  PSET C Pincy entitle Control of PSET C Pincy entitle C PSET	C2C051 C2C051 C2C051 C2C051 C2C051 C2C051 C2C001 C2D011 C2D012 C2D012 C2D022 C2D022 C2D022 C2D022 C2D021 C2D051 C2D051 C2D051 C2D061 C2D061 C2D061 C2D061	C20051_Adl C20052_Adl C20052_Adl C20052_Adl C20052_Adl C20051_Adl	C2C051.dll
Myller Control Technology Myllerh Newtop Co., Ltd. Omen Corporation	U.C.CX Metters PCRI (FUP Peri)  FSRD (Represent Controller)  FSRD (Entertained TV)  Symme CX Series Heat Link  Symme CX Series Plast  EXX Temperature Scropolity(F)  MATION (CompoNity)(F)  MATION (MATION (M	C2C051 C2C051 C2C051 C2C051 C2C051 C2C051 C2C051 C2C001 C2D011 C2D012 C2D012 C2D022 C2D022 C2D022 C2D021 C2D051 C2D051 C2D051 C2D051 C2D061 C2D071 C2D061 C2D0071 C2D0071 C2D0071 C2D0071 C2D0071 C2D0071	C20051 Adl C20052 Adl C20052 Adl C20052 Adl C20051 Adl C30051 Adl C30051 Adl C30051 Adl	C2C051.dll

Brand	Model	W0P-2000T	Panel Express	W0P-3000
	Null PLC	C00000	C00000_A.dll	C00000.dll
	N-to-1 Master (COM) Multi-drop Client (COM)	C01001 C01011	C01001_A.dll C01011_A.dll	C01001.dll
	General Device (COM)	C01051	C01051_A.dll	C01011.dl
	2-to-1 Server (COM)	C01081	C01061_A.dll	C01061.dll
	2-to-1 Transparent Server (COM)  2-to-1 Transparent Server for Modbus Device/Slave (RTU)	C01062 C01063	N/A C01083_A.dll	N/A C01063.dll
	2-to-1 Transparent Server for Omron Sysmac C Series Host Link	C01064	C01084_A.dll	C01064.dll
	2-to-1 Transparent Server for Modbus Device/Stave (RTU; 6-digit Addresses)	C01065	N/A	C01065.dll
	2-to-1 Client (COM) Serial Gateway Server	C01071 C010C1	C01071_A.dll C010C1_A.dll	C01071.dll
anelMaster	Data Sharer (RS485)	C01S01	C01S01_Adll	N/A
anelMaster	Modbus Master (RTU)  Modbus Master (RTU: Little Memory)	C2C041	C2C041_A.dll	C2C041.dll
	Modbus Master (RTU; Non-volatile slave data)	C2C043	C2C043_A.dll	C2C043.dll
	Modbus Device/Slave (RTU)  Modbus Device/Slave (RTU, 16Words)	C2C051	C2C051_A.dll C2C051_A.dll	C2C051.dll
	Modbus Device/Slave (Word order in big-endian)	C2C052	C2C052_A.dll	C2C052.dll
	Modbus Device/Slave (RTU; No block read)  Modbus Device/Slave (RTU, 30Words)	C2C051	C2C051_A.dll C2C051_A.dll	C2C051.dll
	Modbus Device/Slave (ASCII)	C2C093	C2C093_A.dll	C2C093.dll
	Modbus Device/Stave (ASCII; No block read)  Barcode Scanner	C2C093 obcode	C2C093_A.dll cbcode A.dll	C2C093.dll cbcode.dll
	Epson Matrix Printer	CEPSON0	CEPSON0_Adll	CEPSON0.dll
	PC Series PLC Module	C1A001	C1A001_Adll	C1A001.dll
tarker Hannifin	Compax3 HID Series (X4 RS232 Port)	C32001 Cpark1	C32001_A.dll Cpark1_A.dll	C32001.dll Cpark1.dll
larker Hannifin S.p.A.	SLVDN Series (X1 RS422/485 Port)	Cpark2	Cpark2_A.dll	Cpark2.dll
ORIS	XC Modbus RTU PT300 series (RTU)	C2C031 CPTEC0	C2C031_A.dll N/A	C2C031.dll CPTEC0.dll
aytek Corporation	Marathon MR	CMR1S	CMR1S_A.dll	CMR1S.dll
esson Technologies Co., Ltd.	RD-15S El-500 Series (RTU)	CRN010 CEI500	CRN010_A.dll N/A	CRN010.dll CEI500.dll
ICH Electric Co., LTD.	EI-9001 Series (RTU)	CEI9001	N/A	CEI9001.dll
KC Instrument Inc	MA900/CB900 Series (RTU)	C82001 C82002	C82001_A.dll	C82001.dll
NO INSPURIENCE.	CD/CH Series (ASCII)  RB/CB (RKC)	C82002 C82003	C82002_A.dll C82003_A.dll	C82002.dll
aia Burgess	PCD Series (S-Bus PGU)	C31001 C31003	C31001_A.dll C31003_A.dll	C31001.dll C31003.dll
	PCD Series (S-Bus, Data Mode)  NOVA Series (RTU)	C88001	C88001_A.dll	C88001.dll
iamwon Technology	NOVA Series	C88002	C88002_A.dll	C88002.dll
ichneider Electric	ATV31 Inverter (RTU)  Lexium 23 Servo Controller (ASCII)	C2C051 C16041	C2C051_A.dll C16041_A.dll	C2C051.dll C16041.dll
2	Modbus RTU (COM PORT)	CSND01	N/A	CSND01.dll
Sharp Corporation	JW10/20 Series EM303A	CSJW10 CSIN01	CSJW10_A.dll CSIN01_A.dll	CSJW10.dll CSIN01.dll
Shenzhen Sine Electric Co., Ltd	EM500	CSIN01	CSIN01_A.dll	CSIN01.dll
Shenzhen Step Servo Ltd. Shenzhen V&T Technologies Co.,Ltd	Kinco Servo Controller V5-H	C50001 CVTT01	C50001_A.dll CVTT01_A.dll	C50001.dll CVTT01.dll
Shenzhen Xilin Electric Tech. Co., Ltd.	Inverter EH series (RTU)	CSXE01	CSXE01_A.dll	CSXE01.dll
Shihlin Electric&Engineering Corp. SHIMAX CO., LTD.	SH Inverter MAC3 Series (RTU)	CSSH01 CSHI01	CSSH01_A.dll CSHI01_A.dll	CSSH01.dll CSHI01.dll
SHIMMA CO., ETD.	CPT-20A MODBUS DEVICE/SLAVE (ASCII)	CSCCT1	CSCCT1_A.dll	CSCCT1.dll
Shinko Technos Co., Ltd.	JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII)	CSJCS01 CSJCS11	CSJCS01_A.dll CSJCS11_A.dll	CSJCS01.dll CSJCS11.dll
	Smatic S7-200 (PPI; 1-to-1)	C39001	C39001_A.dll	C39001.dll
	Simatic S7-200 SMART (PPI; 1-to-1)	C39001	C39001_A.dll	C39001.dll
Semens AG	Simatic S7-200 (PPI; Network) Simatic S7-300 (MPI Port)	C39011 C39021	N/A N/A	N/A N/A
	Simatic S7-300 (PC Adapter)	C39031	C39031_A.dll	C39031.dll
	Simatic S5 3964R Simatic S5	C39041 C39051	C39041_A.dll C39051_A.dll	C39041.dll C39061.dll
aian Automation Co. Ltd.	TP03 Series (Modbus RTU)	C51011	C51011_A.dll	C51011.dll
	TP02 Series  TAIE FY100/900 Series (RTU)	C51021 CFY001	C51021_A.dll CFY001_A.dll	C51021.dll CFY001.dll
aiwan Instrument & Control Co., Ltd.	TAIE FY100/900 Series (TAIE)	CFY002	CFY002_A.dll	CFY002.dll
	FY series DIGITAL PID CONTROLLER TSDA Series AC Servo	CTAIEFY C51001	N/A C51001 A.dll	CTAIEFY.dll C51001.dll
eco Electric & Machinery Co., Ltd.	TP03 Series (Modbus RTU)	C51011	C51011_A.dll	C51011.dll
COO LOCATIO & PRESIDENTLY CO., LCC.	TP02 Series TSTA Series AC Servo	C51021 C51031	C51021_A.dll C51031_A.dll	C51021.dll C51031.dll
ESHOW ELECTRONIC.	MY90V/MY40V Series (RTU)	CMY901	CMY901_A.dll	CMY901.dll
exas Instruments Incorporated	TI505	CT1505	CTI505_A.dll	CTI505.dll
hinget Electronic Co., Ltd.	XC Series Controller (RTU)  XD Series Controller (RTU)	C89001 C89002	C89001_A.dll N/A	C89001.dll C89002.dll
ieon Electronics Co., Ltd.	IPC-03 Series (RTU)	C83001	C83001_A.dll	C83001.dll
OHO Electronics Inc.	TTX-700 (Modbus RTU) TTM-000 Series (TOHO Protocol)	C3D001 C3D002	C3D001_A.dll C3D002_A.dll	C3D001.dll C3D002.dll
	TTM-200 Series (TOHO Protocol)	C3D003	N/A	C3D003.dll
OKY ELECRTICAL okyo Keiso	DW8-CD18B UCM-04A	CTDW80 CTK001	CTDW80_A.dll CTK001_A.dll	CTDW80.dll CTK001.dll
oshiba Schneider Inverter Corporation	TOSVERT VF Series(Modbus RTU)	C84001	C84001_A.dll	C84001.dll
Initronics	Vision 120 Series (Modbus RTU)  AX (CPU Port)	C4A001 C2B001	C4A001_A.dll C2B001_A.dll	C4A001.dll C2B001.dll
ISAT Technologies	AX2N (CPU Port)	C2B041	C2B041_A.dll	C2B041.dll
fertex Technology Co,. Ltd	AX3U (CPU Port)  VT26/30 Series Controllers (RTU)	C2B051 CVVT26	C2B051_A.dll CVVT26_A.dll	C2B051.dll CVVT26.dll
	M/VB Series	C42001	C42001_A.dll	C42001.dll
Igor Corporation	VS Series	C42003	N/A	C42003.dll
IPA GmbH	VIPA 100V/200V MPI Port Null PLC	C39022 C00000	N/A C00000_A.dll	N/A C00000.dll
	N-to-1 Master (COM)	C01001	C01001_A.dll	C01001.dll
Aware	Multi-drop Client (COM)  General Device (COM)	C01011 C01051	C01011_A.dll C01051_A.dll	C01011.dll
	Data Sharer (RS485)	C01S01	C01S01_Adll	N/A
Vanfeng Electric VDH	WF Series IR-830x Series	C42001 CWDH01	C42001_A.dll CWDH01_A.dll	C42001.dll CWDH01.dll
înje Electronic Co., Ltd.	XD Series Controller (RTU)	CXINJ0	CXINJ0_A.dll	CXINJ0.dll
ABOS	Hospital System  Dentists	CYHS01 CYHS02	CYHS01_A.dll CYHS02_A.dll	CYHS01.dll CYHS02.dll
AMAHA MOTOR CO., LTD.	Single-axis Robot Controller ERCD	CYAERCD	CYAERCD_A.dl	CYAERCD.dll
	SDC35/36 Temperature (RTU) SDC35/36 Temperature (ASCII)	C44001	C44001_A.dll	C44001.dll
	SDC35/36 Temperature (ASCII)  MA500 FA Controller (ECL Host)	C44011 C44021	C44011_A.dll C44021_A.dll	C44011.dll C44021.dll
	DMC10 Controller (RTU)	C44031	C44031_A.dll	C44031.dll
amatake Corporation	DMC10 Controller (ASCII)  MX30	C44041 CYaMX30	C44041_A.dll CYaMX30_A.dll	C44041.dll CYaMX30.dll
	MX50	CYaMX50	CYaMX50_A.dll	CYaMX50.dll
	- SGDM/H Series AC Servo	C45001	C45001_A.dll	C45001.dll
	MP Series Controller (Memobus)  V7 inverter (Memobus)	C45011 C45021	C45011_A.dll C45021_A.dll	C45011.dll C45021.dll
		C45031	C45031_A.dll	C45031.dll
	NS600 Servo Controller			
E-LI ELECTRIC & MACHINERY Co., Ltd.	YPV Servo Controller	cyeli1	cyeli1_A.dl	cyeli1.dll
		cyeli1 cyeli2 C46001	cyel1_A.dll cyel2_A.dll C46001_A.dll	cyeli1.dll cyeli2.dll C46001.dll
E-LI ELECTRIC & MACHINERY Co., Ltd. okogawa Blectric Corporation udian Automation Technology Ltd.	YPV Servo Controller YJD Servo Controller	cyeli2	cyeli2_A.dll	cyeli2.dll

# **Direct Link (Ethernet)(V)**

Marboursephone (1997) (2017)	Brand	Model	W0P-2000T	Panel Express	W0P-30001
Aberbach A		BACnet/IP	csbaip1	N/A	N/A
March	Advantage	HW BACnet/IP	cabaip1	cabaip1_A.dll	cabaip1.dll
Man Bulley	Advantech	MAS Controller (Modbus TCP/IP)	G2C011	C2C011_A.dll	C2C011.dll
Man Sauby		ADAM-6000 (ModBus TCP/IP)	CM6M00	CM6M00_A.dll	CM6M00.dll
About   Description   Descri		MicroLogix 1000/1500 via 1761-NET-ENI	C10E01	C10E01_A.dll	C10E01.dll
Part		MicroLogix	C10E02	C10E02_A.dll	C10E02.dll
Managab Marie   Managab Marie (1999)	Allen Bradley	CompactLogix/ControlLogix Ethernet/IP Tag	C10E21	C10E21_A.dll	C10E21.dll
Manage   M		Micro 820/850	C10E31	N/A	C10E31.dll
Marie Designation   Control   Control   Control   Audio Control   Audio Control   Control   Audio Control		ModBus Master (TCP/IP)	G2C001	C2C001 A.dll	C2C001.dll
Adminish Marie Males Antern (1997) (1993) (2007) (2007) A.B. (2007					C2C011.dll
Membre (Paymeng (1971))	Astraada HMI				
Borne Popemeng (1915)に					
Machanith Authoritis	Daniel Desire des Latte				_
March   Marc	Banner Engineering Int'l Inc.				
March   Marc					_
All Sime Present   All Sime Pr	Beckhoff Automation GmbH				
Book Present   Mode A Growt Company (PCPP Figs 2)   CCC11					
March   Marc		ADS for TwinCAT 3 (via DLL)	CBKE02	CBKE02_A.dll	CBKE02.dll
DER PASE	Bosch Revroth	ModBus Device/Slave (TCP/IP; Type 2)	C2C111	C2C111_A.dll	C2C111.dll
Des Copposition	CMZ Sistemi Elettronici	FCT Controllers(TCP/IP; Type 2)	Cmz111	Cmz111_A.dll	Cmz111.dll
Employ	DEIF A/S	TCP/IP Modbus (Ethernet port)	C2C112	C2C112_A.dll	C2C112.dll
March Action Corp.   Macro Risk Rep (PC)	Delta Corporation	AH500 (RTU)	C16071	C16071_A.dll	C16071.dll
Month	EasylO	EasylO-30 (RTU)	C2C211	C2C211_A.dll	C2C211.dll
Month	Fatek Automation Corp.		C1A011	C1A011_A.dl	C1A011.dll
16 Bethel Corporation  16 Corporation  16 Corporation  16 Corporation  16 Corporation  16 Corporation  16 Corporation  17 Personnel Montal  17 Corporation  17 Corporation  17 Corporation  18 Self-Y Elevent Montal  19 Self-Y					C1C002.dll
16 Bethel Corporation  16 Corporation  16 Corporation  16 Corporation  16 Corporation  16 Corporation  16 Corporation  17 Personnel Montal  17 Corporation  17 Corporation  17 Corporation  18 Self-Y Elevent Montal  19 Self-Y					
March					
METAPE Promote Micro   DESPE Annexe MICRO   DESPE					
BIRTH Seine Silberner TOP    C17025   NA   C17026	GE Corporation				_
December					_
1945   1946	Hitachi Industrial Equipment Systems				C1F006.dll
MOSCOWED    MOSCOWED    MOSED   MOSE	ou, ad				C1F007.dll
Month   Mont	Honeywell		chacip		_
Modes	,	HW BACnet/IP	cabaip1	cabaip1_A.dll	cabaip1.dll
Montana Cortest Referency Co.   Montana Deves Silber (CHSP)   COCCI	140	General Device (TCP/IP Slave)	C01E51	C01E51_A.dll	C01E51.dll
Montania	MO	Modbus Device/Slave (TCP/IP)	C2C211	C2C211_A.dll	C2C211.dll
Montane	Inovance Control Technology Co., Ltd.	H3u (Modbus TCP/IP)	CINOV1	N/A	CINOV1.dll
No.	JETTER	JetControl 24x Series (Ethernet)	C24012	N/A	C24012.dll
Marco   Marc		KV-5000	C25041	C25041_A.dll	C25041.dll
Campaint Systems	Keyence Corp.	KV-7000	C25042	N/A	C25042.dll
Lis Prounterial Systems  AGT POCK (EPU)  Farm SoftPice Ethernet  Cision 1	Lenze Drive Systems GmbH	E94AYCEN GCITCP/IPI Protocol	CLZ003	CLZ003 A.dll	CLZ003.dl
Fames Suffix C Element					_
Model Automation Corporation   Model Automation Corporation   California   Califo	La matana oyatana				_
Different   Collect   Co	Mirle Automation Corporation				
CLEBERT (ASCI Mode)   CLEBET   CORET 2.48   CORET 2.48					_
Minuterior Electric Corp.					_
Metase-POSU MC-Protocol   Metase-POSU MC-Protocol   Metase-POSU MC-Protocol   Medican Master (POIP)   C20011   C20011.4.dl C					
Metase-PIGU	Mitsubishi Electric Corp.				-
ModBus Mester (TCPIP)					_
ModBus Device/Sieve (TCPIP)		Melsec-FX5U			C2BE53.dll
ModBus Mester (TCPIP- Type 2)		ModBus Master (TCP/IP)	C2C001	C2C001_A.dll	C2C001.dll
Modilla Medical Delica (1978) - Type 2)	Morieon Com	ModBus Device/Slave (TCP/IP)	C2C011	C2C011_A.dll	C2C011.dll
Symme CS-CJ Serves PINSTCP	modeon corp.	ModBus Master (TCP/IP; Type 2)	C2C101	C2C101_A.dll	C2C101.dll
Systems NJ Brinks PRS/TCP		ModBus Device/Slave (TCP/IP; Type 2)	C2C111	C2C111_A.dll	C2C111.dll
Symmic Enemoti/P Tag		Sysmac CS/CJ Series FINS/TCP	C2DE01	C2DE01_A.dll	C2DE01.dll
PP Series Computer Link	Omron Corporation	Sysmac NJ Series FINS/TCP	C2DE01	C2DE01_A.dll	C2DE01.dll
Paresolida		Sysmac Ethernet/IP Tag	C2DE21	N/A	C2DE21.dll
Paresolida		FP Series Computer Link	CPAN20	CPAN20 A.dll	CPAN20.dll
No.1 Master (Ethernet)	Panasonic Corporation				CPANA6.dll
No.1 State (Ethernel)			C01021	C01021 A dll	C01021 dll
TCP/IP Calestony Server					
Data Sharer (LIDP)					
ParenMaster					
Pare					_
Modulus Devices States (TCPIP)					_
Visternal Memory Server	PanelMaster				_
					C2C211.dll
CPC UA Client Driver					C2C301.dll
OPC DA Client Driver					C2C311.dll
Perior Harmin S.p.A.		OPC UA Client Driver	OPC000	N/A	OPC000.dll
Parker Harmfin S.p.A.		OPC DA Client Driver	OPC001	N/A	OPC001.dll
OFFine Status Update	Dodge Mannife C o A	6K Ethernet Protocol	CPARK4	CPARK4_A.dll	CPARK4.dll
PCD Series (Ether-S-Bus)	raixa rianniin S.p.A.	6KFast Status Update	CPARK5	N/A	CPARK5.dll
PCD Series (Ethner-S-Bus)	PORIS	XC ModBus TCP	C2C011	C2C011_A.dll	C2C011.dll
PCD Seriest (Ether-S-Bus) (Sub-Link)		PCD Series (Ether-S-Bus)	C31007		C31007.dll
Schrecke Electric   Modus PTU TCP/PP	Saia Burgess				C31007S.dll
Simulation of Control of Contro	Schneider Flectric		CSND02	N/A	CSND02.dll
SMATIC S7 (Ethernol)					_
SMATIC ST-200 (Ethernet)					_
SIMATIC \$7.200 SMAPT Etherwell					_
SMATIC \$7.200 (Ethemet)	Siemens AG				_
LOGO (Elternet)					
FFM					C39E12.dll
FRO Motion Technology   MCRN (32-bit Mode)   CTRIO1   CTRIO1 Ad   CTRIO1 Ad   CTRIO1					C39E21.dll
March   Marc	TPM .	EPC-1000	CTEPC0	CTEPC0_A.dll	CTEPC0.dll
	TRIO Motion Technology	MC4N (32-bit Mode)	CTRIO1	CTRIO1_A.dll	CTRIO1.dll
	vigor Corporation	VB/VH Series (TCP/IP)	C42005	N/A	C42005.dll
N-to-1 Mester (Ethernet)		300S	C39E02	C39E02_A.dll	C39E02.dll
Avore         Number         Co1031         Co1031, Adl         C01031, Adl         C00031, A					C01021.dll
WAGO Vorstaldsechnik Gmith 8 Co. KG    WAGO Vo.SYSTEM 750	/ware				_
WAGO Kortslettechnik GmibH & Co. KG         WAGO-VD-SYSTEM 750-820x         CWAGO2         CWAGO2 Adl         C					
WIAGO-14G-SYSTEM 750-820x	WAGO Kontakttechnik GmhH & Co. KG				
Enterded MBMSBUS					CWAGO2.dll
MP Series Ethernet (Extension) C45014 N/A C45014.d		ModBus Device/Slave (TCP/IP)	C45012	C45012_A.dll	C45012.dll
MP Series Ethernet (Extension) C45014 N/A C45014.d				045040 4 48	C45049 4II
DX200 (Moto.Modbus) C45041 N/A C45041.d		Extended MEMOBUS	C45013	C45013_/Cdl	C40013.01
					C45014.dll
FA-M3 Series (UDP) C46002 C46002_Adll C46002_d		MP Series Ethernet (Extension)	C45014	N/A	_

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