

研華 WebOP 系列 智慧型可程式人機界面

Enabling Flexible Connectivity through Powerful
Solution-oriented Software

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- ／ 產品選購指南
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ADVANTECH

Enabling an Intelligent Planet

www.advantech.com/WebOP

WebOP 系列

為了滿足自動化應用市場，像是橡膠膠射出成型機、電子封裝、食品貼標、自動點膠、PCB 相關應用自動化設備...等各種嚴格應用標準，研華提供了搭載 RISC 平台之可程式人機介面（Operator Panel）來滿足不同的應用需求。透過該產品 WebOP-2000 系列所提供的 RTOS 即時作業系統、WebOP-3000 內建的 Microsoft® WinCE 6.0 OS 平台、並搭配 WebOP Designer 軟體，讓此款可程式人機介面成為了具有絕佳控制功能的 HMI，而使用者則可藉此進行既有彈性又靈活運用的系統整合。另外，產品中所搭配的 WebOP Designer 2.0 則是一款協助建置應用解決方案的軟體開發工具，其不但納入了 PLC 的應用，並能為使用者帶來節省人力成本、提升機器製造效率、以及簡化工廠內部控管作業等等的好處。同時研華的可程式人機介面還可支援 4.3 ~ 12.1 吋等各種 LCD 的尺寸規格，具備工業級程式設計能力和強大相容性，可與 PLC / 運動控制器 / 溫度控制器 / 變頻器 / 感測器等進行連接。

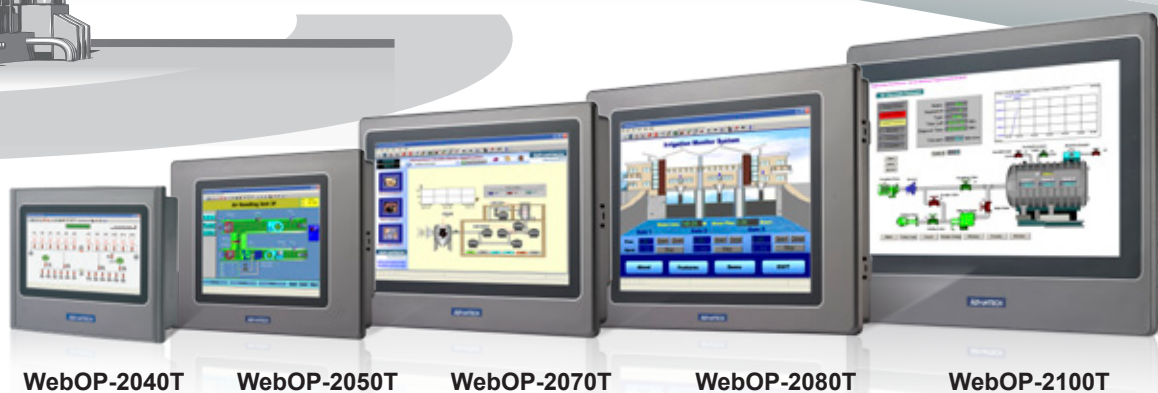


工業級應用

- 重點應用於電子製造、機械自動化、食品飲料、製藥、紡織及包裝等行業
- 在建築自動化市場中應用廣泛，支援 BACNet MSTP & BACNet TCP/IP 協定

硬體與通訊

- 尺寸精巧，平密封前面板 IP66 防護等級
- 透過乙太網路進行資料擷取和雙向控制
- 可實現即時的資料擷取及雙向控制
- 支援多種通訊協定連接



人機介面開發軟體

WebOP Designer 2.0

- 免費開發軟體
- 作業系統支援 Windows XP/Vista/ 7
- 結合 SCADA 軟體，進行完整自動化解決方案之開發

技術支援

- 支援 PLC 驅動程式
- 線上下載技術文件
- FAQ、論壇及網站
- 實機操作教育訓練

WebOP-3000 系列選購指南



型號		WOP-3070T	WOP-3100T	WOP-3120T
訂購資訊		WOP-3070T-C4AE	WOP-3100T-C4AE	WOP-3120T-C4AE
CPU		RISC 32 bits, 600 MHz (ARM® Cortex™-A8)		
電池備份記憶體		FRAM 1M bit (=128K Byte, 64word)		
工作記憶體		DDR2 256M Bytes		
快閃記憶體		512MB on board SLC type		
作業系統		Microsoft® Windows CE 6.0		
顯示器	類型	WVGA(16:9) TFT LCD	WSVGA(16:9) TFT LCD	XGA TFT LCD
	尺寸	7"	10.1"	12"
	最大解析度	800 x 480	1024 x 600	1024 x 768
	最大色彩	65,536 colors	65,536 colors	65,536 colors
	亮度 (cd/m2)	500	550	500
	可視角度 (H/V°)	140/120	140/110	160/140
	背光壽命 (hr)	LED, 50,000	LED, 50,000	LED, 50,000
	調光	Adjustable	Adjustable	Adjustable
觸控式螢幕		5 wire Analog Resistive	5 wire Analog Resistive	5 wire Analog Resistive
電源 LED		Yes	Yes	Yes
通訊 LED		No	No	No
前端 USB 存取		No	No	No
通訊介面	COM1	RS-232/RS-422/RS-485 (DB9)	RS-232/RS-422/RS-485 (DB9)	RS-232/RS-422/RS-485 (DB9)
	COM2	RS-422/RS-485 (Terminal 4pin+Ground)	RS-422/RS-485 (Terminal 4pin+Ground)	RS-422/RS-485 (Terminal 4pin+Ground)
	COM3	RS-485 (Terminal 2pin)	RS-485 (Terminal 2pin)	RS-485 (Terminal 2pin)
	CAN	Terminal 2pin	Terminal 2pin	Terminal 2pin
	乙太網路 (RJ45)	10/100-BaseT	10/100-BaseT	10/100-BaseT
I/O 插槽	USB 客戶端	USB 2.0 Client x 1	USB 2.0 Client x 1	USB 2.0 Client x 1
	USB 主機	USB 2.0 Host x 1 (Top)	USB 2.0 Host x 1 (Top)	USB 2.0 Host x 1 (Top)
	Micro-SD 插槽	Yes	Yes	Yes
	SD 插槽	-	-	-
	音效	1 Lin out / 1 Mic in	1 Lin out / 1 Mic in	1 Lin out / 1 Mic in
	電源隔離	Yes	Yes	Yes
	I/O 隔離	Yes	Yes	Yes
電源供應器電壓		24VDC ± 10%	24VDC ± 10%	24VDC ± 10%
功耗		7W Typical	9W Typical	12W
尺寸 寬 x 高 x 深 (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")
開孔尺寸 寬 x 高 (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")
前面板厚度 (mm)		6 mm	6 mm	6 mm
外框材質		Die-cast aluminum alloy front bezel	Die-cast aluminum alloy front bezel	Die-cast aluminum alloy front bezel
淨重		1 Kg (2.20 lbs)	1.2 Kg (2.65 lbs)	2.5 kg (5.51 lb)
工作溫度		-20 ~ 60°C (-4 ~ 140° F)	-20 ~ 60°C (-4 ~ 140° F)	-20 ~ 60°C (-4 ~ 140° F)
儲存溫度		-30 ~ 70°C (-22 ~ 158° F)	-30 ~ 70°C (-22 ~ 158° F)	-30 ~ 70°C (-22 ~ 158° F)
濕度		10% ~ 90% RH @ 40° C, non-condensing	10% ~ 90% RH @ 40° C, non-condensing	10% ~ 90% RH @ 40° C, non-condensing
防水防塵等級		Front panel: IP66	Front panel: IP66	Front panel: IP66
Certification Approval		CE / FCC / BSMI / CCC / UL / UL-508	CE / FCC / BSMI / CCC / UL / UL508	CE / FCC / BSMI / CCC / UL

WebOP-2000 系列選購指南



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 32bits, 200MHz		RISC 32bits, 200MHz	RISC 32bits, 200MHz		RISC 32bits, 200MHz		RISC 32bits, 200MHz	
128KB		128KB	128KB		128KB		128KB	
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, WebOP Designer 2.0		HMI RTOS, WebOP Designer 2.0	HMI RTOS, WebOP Designer 2.0		HMI RTOS, WebOP Designer 2.0		HMI RTOS, WebOP Designer 2.0	
WQVGA(16:9) TFT LCD		Similar QVGA TFT LCD	WVGA(16:9) TFT LCD		SVGA TFT LCD		Similar WSVGA TFT LCD	
4.3"		5.6"	7"		8"		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 colors		65,536 colors		65,536 colors	
400		330	300		250		250	
100/95		130/110	140/130		140/130		140/110	
LED, 20,000		LED, 20,000	LED, 20,000		LED, 30,000		LED, 20,000	
Adjustable		Adjustable	Adjustable		Adjustable		Adjustable	
4 wires Analog resistive		4 wires Analog resistive	4 wires Analog resistive		4 wires Analog resistive		4 wires Analog resistive	
Yes		Yes	Yes		Yes		Yes	
No		No	No		No		No	
No		No	No		No		No	
RS232/422/485 (DB9 Female)		RS232/422/485 (DB9 Female)	RS232/422/485 (DB9 Female)		RS232/422/485 (DB9 Female)		RS232/422/485 (DB9 Female)	
RS422/485 (5 Pin Plug Connector)		RS422/485 (5 Pin Plug Connector)	RS422/485 (5 Pin Plug Connector)		RS422/485 (5 Pin Plug Connector)		RS422/485 (5 Pin Plug Connector)	
RS232 (COM1: 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
Yes		Yes	Yes		Yes		Yes	
Yes		Yes	Yes		Yes		Yes	
-	Yes	Yes	-	Yes	-	Yes	-	Yes
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%	24VDC ± 10%
5W		10W	10W		10W		10W	
130 x 106.2 x 36.4mm (5.11" x 4.18" x 1.43")		188 x 143.3 x 30mm (7.4" x 5.64" x 1.18")	188 x 143.3 x 30mm (7.4" x 5.64" x 1.18")		231.5 x 174.6 x 37mm (9.11" x 6.87" x 1.46")		269.8 x 212 x 37.4mm (10.62" x 8.35" x1.47")	
118.5 x 92.5mm (4.66" x 3.64")		175 x 132.5mm (6.89" x 5.21")	175 x 132.5mm (6.89" x 5.21")		221 x 164 mm (8.70" x 6.46")		259.5 x 201.5 mm (10.22" x 7.93")	
5 mm		6 mm	6 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 (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° C, non-condensing		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	
Front panel: IP66		Front panel: IP66	Front panel: IP66		Front panel: IP66		Front panel: IP66	
CE / FCC / BSMI / CCC / UL		CE / FCC / BSMI / CCC / UL	CE / FCC / BSMI / CCC / UL		CE / FCC / BSMI / CCC / UL		CE / FCC / BSMI / CCC / UL	

WebOP 系列功能介紹

配備 RISC 處理器的 WebOP 系列產品除了提供從 4.3 吋到 12.1 吋各種 LCD 尺寸，可與 PLC、運動控制、溫度控制器、變頻器和感測器等多種工業設備無縫整合、完美協作，還可借助多種通訊介面（如 RS-232/422/485 介面、乙太網路及 USB 介面）與其他設備輕鬆相連。此外，產品還具有 IP66 防水防塵等級、以及 0~50°C 的寬溫作業範圍，藉此確保了設備在最嚴苛環境下仍有可靠且穩定的運作性能。WebOP 系列人機界面可與 400 多種 PLC 產品無縫相容，如 Allen Bradley Micrologix、Modicon、Quantum、GE 90、Siemens AG Simatic S7、Mitsubishi、FX/Q、Omron Sysmac C/CV/CS/CJ 和 Yaskawa MP 等。WebOP 系列人機界面及 WebOP Designer 2.0 畫面編輯軟體兼具優異性價比和完美性能，是工廠自動化中最理想的應用選擇。



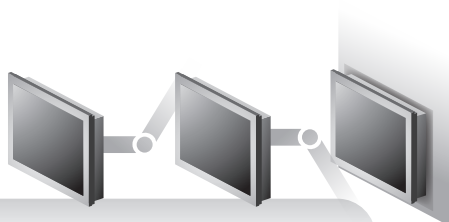
4.3"~12.1" 全系列 LCD 尺寸

4.3"~12.1" 多尺寸 LCD 規格，並相容於各種 PLC 的應用



第四級 ESD 防護

符合間接放電 15KV Level 4 標準；
接觸放電則為 8KV Level 4



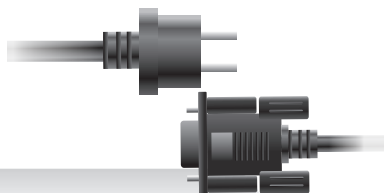
VESA 及壁掛式安裝

一個安裝套件適用於各種安裝方式



強大記憶體設計

512MB on board SLC 儲存容量，並有 128KB 備份用 FRAM 記憶體，因此無需擔心斷電造成資料流失的問題。



獨立隔離設計

提供外部突波電流與電子雜訊保護

CANopen

內建 CANBus 功能

支援 CANopen library 登錄 - CiA 301
V4.02



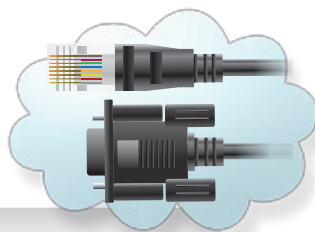
Micro SD 記憶卡插槽

所有 WebOP 系列產品均內建有標準 Micro SD 記憶卡插槽



IP66 防水防塵等級

前面板具備 IP66 防水等級，可在 0 ~ 50°C 寬溫作業



豐富的通訊介面

種類豐富的通訊介面，包含 RS-232/422/485 介面、乙太網路和 USB Host/Client 接口



PLC 連線功能

可與超過 400 種 PLC 產品相連，滿足多元化工廠自動化應用需求

人機界面程式設計軟體 - WebOP Designer

WebOP Designer 已經成功應用於許多領域和行業，是一款簡便易用的畫面編輯軟體，可幫助使用者從解決方案的角度直接於螢幕之上進行程式設計和高端向量繪圖。WebOP Designer 具備多種語言版本的 Windows 字體、功能表、警報、數據記錄和操作日誌記錄系統，還擁有線上 / 離線模擬、資料傳輸助手 (DTH)、功能表編輯器和文字編輯器等功能，為使用者進行程式設計時提供極大的便利。WebOP 系列人機界面在運行時，得益於 WebOP Designer 畫面編輯軟體的良好設計，確保了系統運行的穩定性，能夠保持高品質的通訊連接和資料傳輸速率，實現高速畫面切換，真正實現全天候無間斷運轉。

捷徑 & 常用工具列

圖示顯示可提升工作效率

- 顯示物件、圖表類型及作業的捷徑圖示，可提升工作效率
- 可將常用的物件及圖表設為我的最愛 (Favorites)

專案工作區

直覺式的樹狀顯示讓人機介面開發更加容易

透過專案式的管理工作表，輕鬆建立、開發及管理專案內容

螢幕編輯區

智慧型螢幕設計

人機介面開發時，可在螢幕區直接了解或修改，實現直覺式的使用者經驗

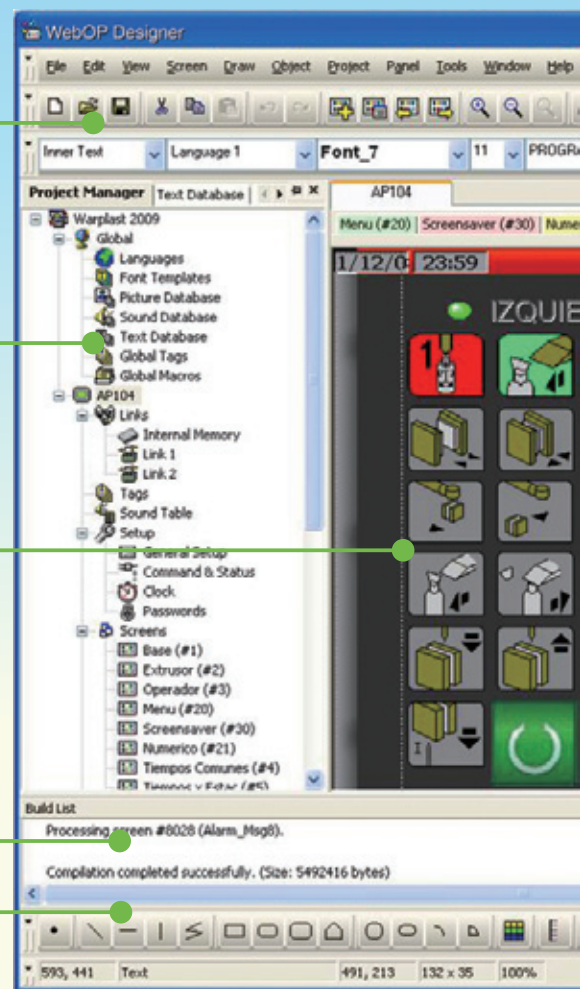
工作執行清單

編輯和模擬結果

編輯後會告知開發之錯誤，按兩下錯誤訊息會跳至問題發生的位置

繪圖工具列

多種繪圖工具，有助於使用者建立各種應用



軟體功能

- 使用 Unicode 文字系統和多種文本顯示功能，可靈活切換各國語言
- 程式編輯、巨集和上傳 / 下載等操作提供密碼保護
- 提供索引暫存器，可於人機專案時修改設備位址
- 操作紀錄可回顧並調查重要事件

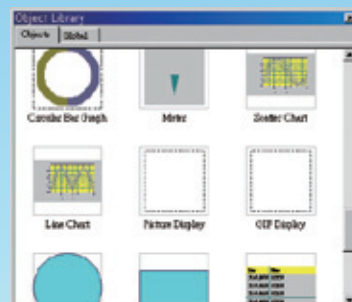
簡單

便捷

創新

物件工具列

暫存元件顯示



在元件庫中挑選圖像元件並把它們拖到繪圖介面上，可輕鬆進行設計

編輯工具列

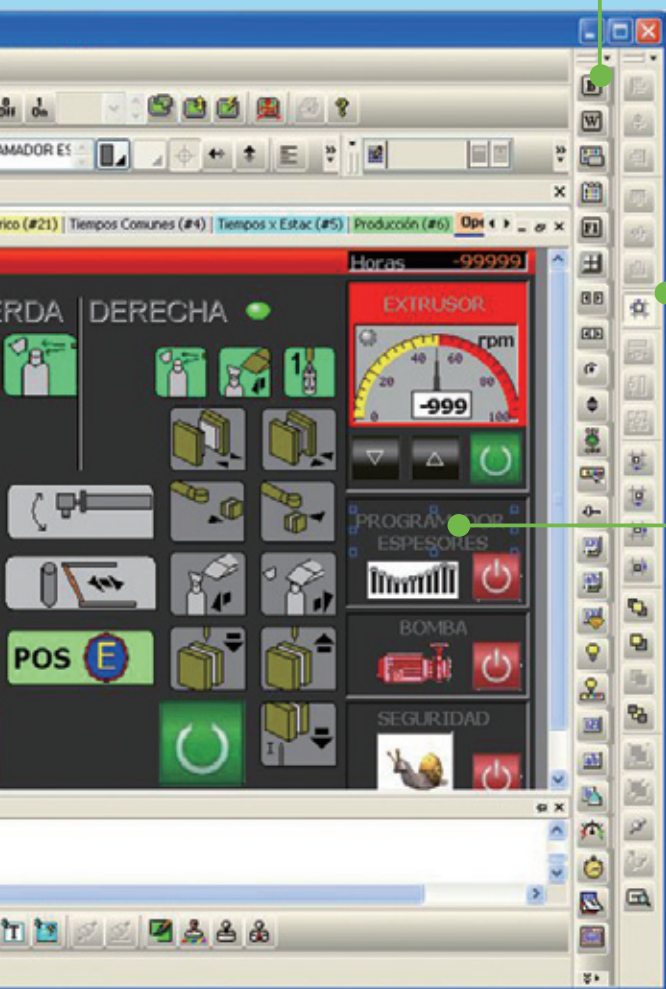
專屬元件編輯介面

在程式庫工作區內按兩下暫存元件，可打開對其編輯的介面，編輯過程簡單又快速

對話框



- 按兩下某元件或圖形，可彈出屬性對話框，輕鬆修改屬性設置
- 屬性的變化可同步在螢幕上顯示，簡化操作程式，降低設定錯誤的發生



- 透過序列埠、乙太網路、USB 介面連接及 Micro SD 卡下載人機介面程式
- 可使用隨身碟或 Micro-SD 卡進行應用程式更新

- 支援超過 400 種 PLC 和工業通訊協定，如 SIMATIC S7-1200、BACnet MSTP/BACnet IP

WebOP Designer 軟體功能

專案式結構管理 可同時管理多項應用程式

專案管理

- 一個專案中可包含多項應用程式
- 樹狀專案清單直觀明瞭，內容齊全，便於管理
- 所有的應用程式都可進行共用或共同編輯
- 多項應用程式均允許匯入/匯出，使用者可隨意運用各項資源
- 專案可完整保存於獨立檔中，維護起來簡單快捷



軟體功能豐富 滿足多種設備自動化需求

支援建構小型SCADA系統

- 在開發程式時，您可獲得以下支援：
- 多語言支援：您可使用10種不同語言進行編輯
- 4種通訊連接方式，還可增加更多RS-485和TCP/IP次連線
- 最多支援至7999個畫面
- 多種巨集執行模式：一個啟動巨集/一個主巨集/四個事件巨集/四個時間巨集，其他巨集在執行時均無限制
- 多種警報設定：16群組離散警報/類比警報/配方/資料記錄器
- 1個歷史操作紀錄器

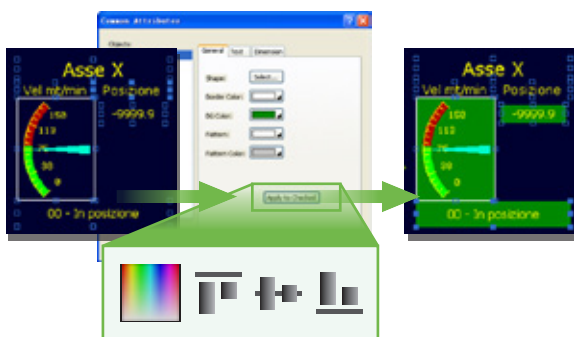


用戶介面友好的工具 令客製化設計更加便捷高效

螢幕編輯區和工具列

- 您可隨時看到物件的變化狀態
- 半透明的屬性對話方塊，不會妨礙您查看螢幕上的其他訊息
- 根據物件的規格大小，可對其相應的畫面和屬性進行自動調整
- 可將多個物件設定為群組，同時進行移動、尺寸調整和共同屬性的統一修改
- 圖片可進行旋轉或調整色調，以適應物件需要

自動調整尺寸、旋轉、色調

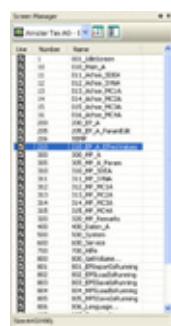


智慧畫面管理

畫面管理

- 採用文本清單或縮圖清單的方式，流覽畫面的編號或檔名
- 從清單中選擇畫面，進行程式的編輯、裁切、複製、刪除或輸出等操作
- 通過彈出式功能表建立新的畫面或匯入畫面
- 按一下畫面縮圖，可突顯出其他與之相連的關係
- 按兩下畫面縮圖，可打開程式編輯視窗或屬性對話方塊

文本清單瀏覽



縮圖瀏覽



畫面關聯性瀏覽



WebOP Designer 軟體功能

簡便的多語言文件編輯

文件資料庫和編輯器

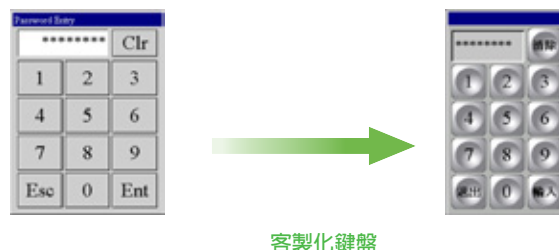
- 文本資料庫中含有多種代碼支援多語言應用，且可匯入/匯出，可使用Microsoft Excel來編輯代碼並導入到應用程式當中



客製化的鍵盤配置和設計

客製化的鍵盤和螢幕鍵盤

- 自由設計鍵盤樣式，可專為某項應用特別設計一款專屬鍵盤；還可以實現採用畫面固定鍵盤來替代彈出式鍵盤



智慧財產保護

強大的資料保護功能

- 您可以針對文檔、巨集和密碼表等檔案類型，分別設置不同的密碼保護
- 可預先設置禁止複製或上載某程式等操作



操作權限管理

靈活易用的操作權限管理

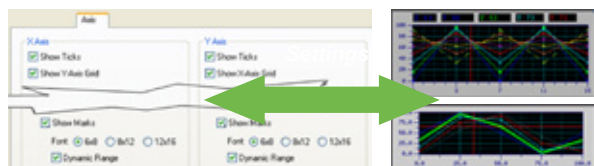
- 可進行輸入許可權設置：根據操作權限的不同，可將按鈕、開關、資料輸入元件進行允許或禁止操作的設置；或在操作許可權不足時，功能將被直接隱藏
- 在進行資料登錄前，需要對操作者的許可權進行確認
- 設置按鈕、開關來控制最短操作時間
- 進一步的數字顯示功能，允許利用巨集來檢查資料登錄



支援對複雜應用程式進行動態資料顯示，如數值、等級和時間的範圍變化

動態的範圍顯示

- 支援資料的動態範圍顯示：根據應用程式和設備的實際運行狀況，在螢幕上同步進行動態顯示；資訊易讀且精確，方便您及時掌握程式和設備的運行狀態



支援完整的配方功能

配方區塊

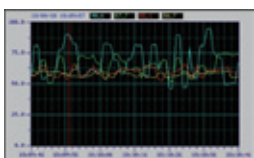
- 最多可設定16個配方群組
- WebOP與PLC檔案中的配方可相互轉移
- 使用配方編輯器，您可直接在電腦上編輯配方



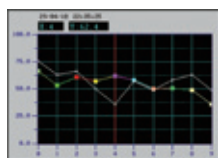
歷史資料記錄和資料收集功能

資料記錄器

- 通過功能鍵或是巨集程式，可將所需收集的資料（最多16組資料）保存或載入至檔案中
- 歷史事件清單對歷史資料、歷史訊息和歷史趨勢圖進行顯示，並且預先定義的事件的記錄也可展示在圖表中



- 歷史趨勢圖展示：以趨勢線圖展示歷史資料



- 從曲線圖中固定時間來對某一數據進行展示

提供操作記錄，有助提升工作效率及效能

歷史操作紀錄顯示器

- 應用程式的啟動/停止時間、失敗的通訊連接和操作流程等可被記錄，並追蹤修改過程，歷史操作情況一目了然

Date	Time	Message
31/08/09	16:56:53	Scrolled the slide switch (637)
31/08/09	16:56:49	Inputted a new value (896.7)
31/08/09	16:56:33	Button is clicked. (OFF)
31/08/09	16:56:32	Scrolled the slide switch (318)
31/08/09	16:56:29	Inputted a new value (5.0)
31/08/09	16:56:25	Button is clicked. (ON)
31/08/09	16:56:19	Cleared the operation history

操作紀錄展示

模擬運行功能，提高工作效能

離線/在線模擬

- 購買前可以利用離線模擬功能對設計進行模擬測試
- 在您進行安裝前，您可以利用線上模擬功能評估通訊連接效果



離線模擬

多種警報和監控展示

警報

- 最多可監控和記錄16群組離散警報和16群組類比警報（WebOP-2000T 系列）
- 一個警報事件，可以讀取和記錄最多8類資料訊息
- 自動全域警報，可將警報資訊隨時顯示於當前螢幕上



- 警報歷史
- 現行的警報
- 警報數量
- 警報介面

自動偵錯功能

智慧偵錯軟體編輯器

- 對所有程式的設計和應用的設置進行持續檢查，提示出錯資訊，大大提升了與設備連接的正確通訊率
- 可將巨集自動譯成簡潔且可直接應用的代碼
- 建立在WebOP中執行的資料運行資訊



多種方式進行運行資料傳輸

資料傳輸工具和資料傳輸幫手(DTH)

- 利用WebOP Designer 或 DTH 傳輸程式傳輸資料至WebOP，可在 WebOP 執行時通過串列埠、乙太網路或USB介面隨時進行連接（有些WebOP不具備USB連接功能以支援數據傳輸）
- 在沒有電腦的情況下，也可利用USB快閃記憶體或Micro-SD卡將程式執行資料傳輸至WebOP



Windows Based HMI mini SCADA- Panel Express

PANEL EXPRESS

Designed for Convenience

Panel Express 是一個基於微軟視窗作業系統的人機介面運程式。有了它，您可以利用 PC 的豐富資源，如運算速度，儲存空間，多媒體，周邊設備，和較大的螢幕等來實現高階複雜的人機介面。它的規劃軟體與 WebOP-2000 系列人機介面產品相同，都是採用 WebOP Designer。為了整合 WebOP-2000 系列人機介面應用程式至開放式平台，並且保有軟體本身強大的通訊以及監控能力。基於這個跨平台的彈性，針對功能應用或成本考量有所需求的客戶，提供了快速有效的 HMI 完整解決方案。



基本功能



高性價比的開放式平台人機介面應用程式



內部規劃點數無限制，滿足客戶不同應用的需求



超過50個畫面設計物件，滿足設備自動化人機介面操作與監控需求



支援超過400種 PLC 通訊協定



單一應用程式可同時連結16種不同的通訊物件



支援資料收集，警報監視，配方處理與操作記錄

進階功能



單一應用最多可同時連結並控制128站



可監視64個數位警報區和64個類比警報區。可定義警報總數達65536個



MS SQL 資料庫



支援 Visual Basic Script

成功案例

為玻璃纖維紗紡織工廠打造全自動化生產線



專案簡介

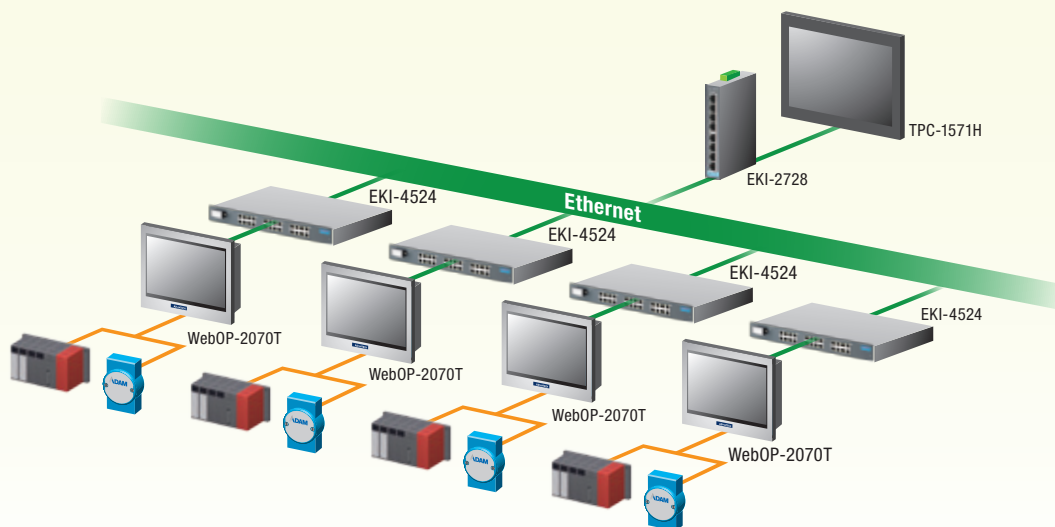
一家東南亞最大的玻璃纖維製造廠商，其所製造及經銷的電子級玻璃纖維紗、工業玻璃纖維紗和電子級玻璃纖維布等產品主要作為印刷電路板（PCB）之補強及絕緣材料，該公司近期計劃提高其工廠生產線的自動化程度，一方面希望能摒除人工手寫易出錯的問題，另外也要讓管理者能隨時掌握產線狀況。而儘管不少系統整合商有能力提供該廠自動化的紡織機器，但這種單機自動化作業的設備卻因為缺乏整合方案，使得相關生產資訊的取得和分析顯得相當困難。

系統需求

而由於負責產線運作的管理人員必須有最即時的資訊和最完整的記錄才能適時作出最正確的判斷，因此為了取代原有的單機獨立運作模式，新系統需要提供一套完整的解決方案，其中包括為紡織機提供具有親和性使用介面的終端裝置以簡易方式來控制現場的生產作業流程、穩定可靠的網路連線以確保資料傳輸的準確性、功能強大之電腦以作為控制中心內的伺服器來處理大量的數據資料。而除了硬體產品之外，對紡織機與工業級平板電腦而言，能快速設計出適當的人機介面之資料擷取圖控軟體更是必不可少的重要開發工具。

系統建置

總計有 84 套研華的 7 吋 WVGA 可程式人機介面 WebOP-2070T 分別安裝在工廠的各條生產線上，其主要是用來收集像是 PLC、驅動器和步進馬達等現場各種設備裝置的訊號，之後這些數據資料將透過兩款乙太網路交換器傳送至位在控制中心的 15 吋觸控式平板電腦 TPC-1571H。其中能提供優異性價比功能的 WebOP-2070T 除了內建有運算速度高達 200MHz 的 ARM9-based RISC 處理器並附有 128MB 的快閃記憶體之外，該產品還能支援多達上百種的工業通訊協定和各式各樣的通訊介面來連接各種設備裝置。除此之外，搭配 WebOP Designer 組態軟體並以 Windows 為基礎的人機介面程式 Panel Express 可以讓使用者充分運用 PC 的資源來設計出高階且精緻的人機操作介面。



結論

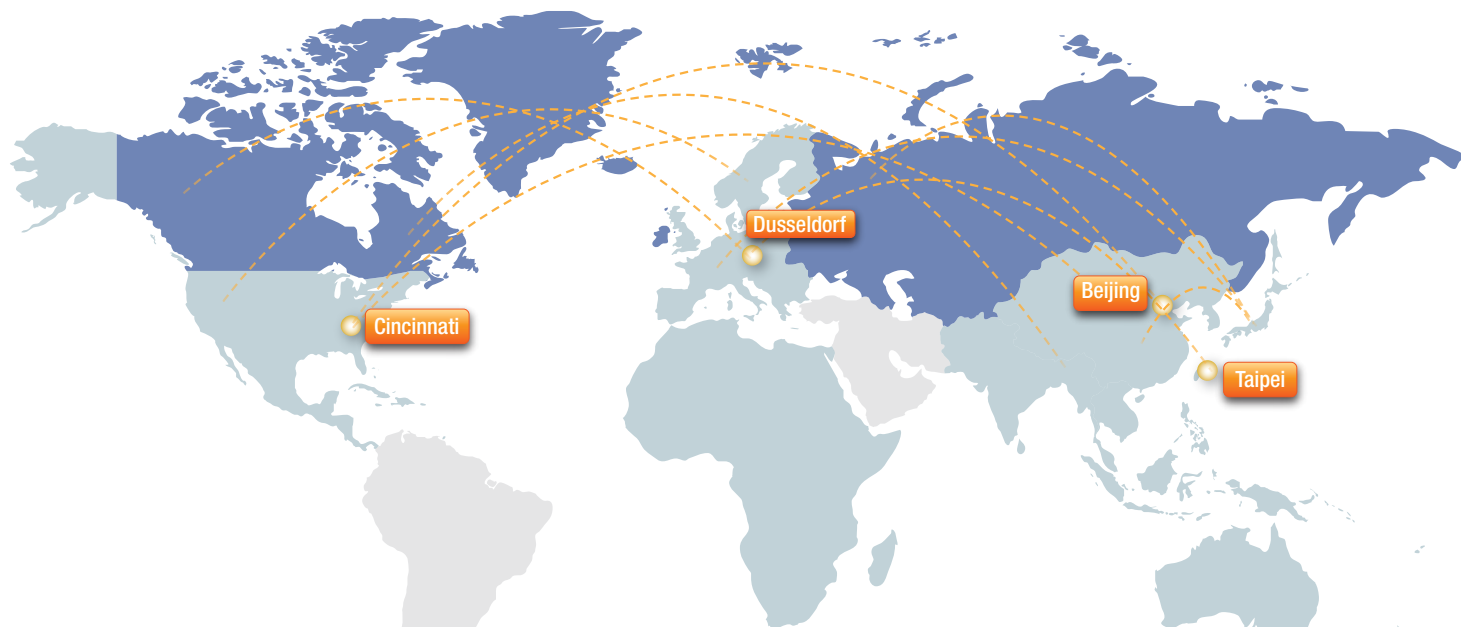
研華完善且全方位的解決方案不僅可以協助系統整合商開發出一套全新的自動化系統，從原本的單機操作轉型至完整的自動化應用，更讓使用者能將其管理方式從被動維護升級為主動管理，同時也能降低勞動成本並提升管理效率。透過收集數據完整記錄的資料庫，研華的解決方案甚至能讓管理者分析其生產線的運作狀況，以便能快速找出優先改善作業流程的最佳決策。

專案導入

產品	描述
WebOP-2070T	7吋WVGA可程式人機介面，附WebOP Designer 2.0編輯
EKI-2728	8埠Gigabit非網管型工業級乙太網路交換器
EKI-4524	24埠乙太網路交換器
TPC-1571H	15吋XGA TFT LED LCD觸控式平板電腦，內建Intel Atom D525雙核處理器
Panel Express 2.0	基於 Windows 的人機介面程式/圖控軟體

全球技術支援網絡

作為全球化的工業自動化公司，我們以能夠提供優秀的技術服務支援而倍感自豪。我們擁有一系列線上技術支持和交流平台，便於使用，高效快捷。作為全球化的工業自動化公司，我們以能夠提供優秀的技術服務支援而倍感自豪。我們擁有一系列線上技術支持和交流平台，便於使用，高效快捷。作為全球化的工業自動化公司，我們以能夠提供優秀的技術服務支援而倍感自豪。我們擁有一系列線上技術支持和交流平台，便於使用，高效快捷。



整合服務支援

彈性且符合成本效益

全球性高品質服務

專注與專業

即時服務

研華擁有一支高品質的金牌技術支援團隊，只需短暫時間，即可快速將您的需求盡力呈現為實際應用

在地支援

服務支援團隊遍佈各個區域，通過全球化的辦公網絡隨時隨地回應客戶需求

線上教學

提供線上影片教學，帶領您逐步理解操作流程和如何最佳使用我們的產品

客製化驅動程式支援

WebOP Designer 可支援超過 400 種 PLC 驅動程式，並且驅動程式列表的數量仍在不斷增加。請聯繫我們以獲取您所需要的驅動程式細節資訊。

線上技術支援服務

WebOP Designer 程式設計軟體及 Panel Express 圖控軟體憑藉直觀且方便的應用設計功能，整合系統、機械和人機界面之間的連接。因此，研華提供線上技術操作支援，透過提供軟體工具和操作文檔等內容說明讓使用者快速上手應用。使用者可輕鬆地將所需資料下載至本地，縮短開發時間。

此外，我們還成立專屬線上網站，提供各種資訊，以幫助使用者了解 WebOP。從網站中，您可以找到完整一系列的產品型號，觀看教學影片，查詢應用案例和架構，以及下載最新的軟體版本。同時，網站中也架設了技術論壇，鼓勵我們的用戶進行交流討論，互相幫助。更多資訊，請前往 <http://www.advantech.com/webop/>



支援連結的 PLC 控制器

Direct Link (COM)

Brand	Model	PC/Simulation	WinCE(ARM)
A&D Company Ltd.	AD-4401 Weighing Indicator	CA0401.dll	CA0401_A.dll
ABIDO Automation Co., Ltd.	ACR420 984 Device/Slave (RTU)	C2C032.dll	C2C032_A.dll
ADLEE POWERTRONIC CO., LTD.	MS/AP/AS Series Inverter (RTU)	CAPINV.dll	CAPINV_A.dll
	BU/D305 Series (RTU)	CAPPM.dll	CAPPM_A.dll
Advantech	Null PLC	C00000.dll	C00000_A.dll
	ADAM (Modbus RTU)	C2C031.dll	C2C031_A.dll
AIGO Technologies Corporation	ADAM-4000 (ASCII)	CM4000.dll	CM4000_A.dll
	SE500 Series (Modbus RTU)	C87001.dll	C87001_A.dll
Allen Bradley	Micrologix 1000/1500	C10001.dll	C10001_A.dll
	SLC 5/03, 5/04	C10002.dll	C10002_A.dll
	DH-485 (COM)	C10003.dll	N/A
	PLC-5	C10005.dll	C10005_A.dll
	SLC 5/03, 5/04 (CFC)	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.dll	C2C021_A.dll
Astraada HMI	Modbus Device/Slave (RTU)	C2C031.dll	C2C031_A.dll
	Modicon Device/Slave (RTU, Quantum)	C2C081.dll	C2C081_A.dll
	Modbus Master (RTU, Non-volatile slave data)	C2C121.dll	C2C121_A.dll
Automation Technology Co., Ltd.	BLDC NVM/KV 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.dll	CCDB1k_A.dll
CMZ Sistemi Elettronici	NFO Controllers	CCMZ051.dll	CCMZ051_A.dll
	FCT Controllers	CCM2151.dll	CCM2151_A.dll
	SD Drivers	CCMZ251.dll	CCMZ251_A.dll
	SDS Drivers	CCMZ351.dll	CCMZ351_A.dll
	MDM Drivers	CCMZ451.dll	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.dll	CDAVLT_A.dll
DEIF A/S	Modbus RTU (COM port)	C2C082.dll	C2C082_A.dll
	WSS/WSS-L	CDE011.dll	CDE011_A.dll
Delta Corporation	DVP-ES/SS/EP/EH	C16001.dll	C16001_A.dll
	DVP-ES/SS/EP/EH (No block read)	C16001.dll	C16001_A.dll
	VFD-M Inverter (ASCII)	C16011.dll	C16011_A.dll
	VFD-B Inverter (ASCII)	C16021.dll	C16021_A.dll
	DTCI1000/2000 Temperature (ASCII)	C16031.dll	C16031_A.dll
	DTA Temperature (ASCII)	C16032.dll	C16032_A.dll
	ASDA-A Servo Controller (ASCII)	C16041.dll	C16041_A.dll
	ASDA-B Servo Controller (ASCII)	C16051.dll	C16051_A.dll
	ASDA-A2 Servo Controller (ASCII)	C16061.dll	C16061_A.dll
Dirise Electric Technology Co.,Ltd.	DRS2000 Series Inverter	N/A	N/A
	DRS2800 M Series Inverter	CFDSR01.dll	CFDSR01_A.dll
Emerson Network Power	EC Series (RTU)	C81001.dll	C81001_A.dll
	EV1000 Series Variable Speed Driver	C81011.dll	C81011_A.dll
Epson Corporate	Epson LQ Matrix Printer	CEPS0N0.dll	CEPS0N0_A.dll
Eura Drivers Electric Corp.	Eura EF1S/1N	C28001.dll	C28001_A.dll
	Eura EF2N	C28041.dll	C28041_A.dll
	Eura Inverter (Modbus RTU)	C5A003.dll	C5A003_A.dll
	Eura Inverter (Modbus ASCII)	C5A004.dll	C5A004_A.dll
	Eura EF200-CPU202/Modbus RTU)	C5A005.dll	C5A005_A.dll
	Eura EF200-CPU202XP/CPU204/Modbus RTU)	C5A006.dll	C5A006_A.dll
	Eura EF200-CPU204XP/CPU206/Modbus RTU)	C5A007.dll	C5A007_A.dll
	Eura EF300-CPU304/Modbus RTU)	C5A007.dll	C5A007_A.dll
	Eura EF300-CPU306/Modbus RTU)	C5A007.dll	C5A007_A.dll
	Eura Servo Drive (Modbus RTU)	C5A00A.dll	C5A00A_A.dll
	Eura Servo Drive (Modbus ASCII)	C5A00B.dll	C5A00B_A.dll
	Eura HFR1000 (Modbus RTU)	C5A00C.dll	C5A00C_A.dll
	Eura HFR1000 (Modbus ASCII)	C5A00D.dll	C5A00D_A.dll
	Eura HFR2000 (Modbus RTU)	C5A00E.dll	C5A00E_A.dll
	Eura HFR2000 (Modbus ASCII)	C5A00F.dll	C5A00F_A.dll
Fatek Automation Corp.	FATEK FBs/Fbs	C1A001.dll	C1A001_A.dll
Festo Corporation	FATC/FEC Series	C1C001.dll	C1C001_A.dll
	NB Series	C1D001.dll	C1D001_A.dll
Fuji Electric Corporation	PXR Series Temperature (RTU)	C1D011.dll	C1D011_A.dll
	FRENIC VP (RTU)	C1D021.dll	C1D021_A.dll
	FRENC5000G11/P11 (Full)	C1D031.dll	C1D031_A.dll
	FRENIC-Mini/Eco/Multi/Mega/RTU)	C1D051.dll	C1D051_A.dll
FVK Automation Co., Ltd.	F Series Inverter	CFDSR01.dll	CFDSR01_A.dll
	90 Series SNP	C1E001.dll	C1E001_A.dll
GE Corporation	VersaMax Series (SNP)	C1E001.dll	C1E001_A.dll
	90 and FC3 Series (SNP)	C1E001.dll	C1E001_A.dll
	90 Series CCM	C1E011.dll	C1E011_A.dll
Gigarise Technology Co., Ltd.	SE5000	C87002.dll	C87002_A.dll
	GA400 Temperature (RTU)	C90012.dll	C90012_A.dll
GOFAST Corporation	NC Series	C42001.dll	C42001_A.dll
Haiwell Technology Co., Ltd	HW Series (RTU)	CHW001.dll	CHW001_A.dll
Hanbell Precise Machinery Co., Ltd.	Air Screw Compressor	CHANASC.dll	CHANASC_A.dll
Hitachi Industrial Equipment Systems Co., Ltd	SJ200 Inverter	C1F001.dll	C1F001_A.dll
	VEH Series	C1F020.dll	C1F020_A.dll
	EHV Series (Procedure 1)	C1F021.dll	C1F021_A.dll
	H-252C	C1F022.dll	C1F022_A.dll
	AD Series Servo Drives	CHA04LS.dll	CHA04LS_A.dll
	Computer as Slave (COM)	C02001.dll	C02001_A.dll
Hitech	Computer as Master (COM)	C02011.dll	C02011_A.dll
	Computer as Slave V2 (COM)	N/A	N/A
	Computer as Master V2 (COM)	C02031.dll	C02031_A.dll
HOLIP ELECTRONIC TECHNOLOGY CO., LTD	HLP-C+/CP	CHLP01.dll	CHLP01_A.dll
Honeywell	BACnet/MSTP	N/A	N/A
	BACnet	cbacnet.dll	N/A
	Modbus Device/Slave (RTU, 255)	CHON01.dll	CHON01_A.dll
Hunjoen Electronic Co., Ltd.	Modbus Device/Slave (RTU, 255, NoBlock)	CHON01.dll	CHON01_A.dll
	H_Tech PID CONTROLLER	CHtech1.dll	CHtech1_A.dll
HUST Automation Inc.	CNC Controller	CHCNC01.dll	CHCNC01_A.dll

Brand	Model	PC/Simulation	WinCE(ARM)
Idec Corporation	FC Series	C22001.dll	C22001_A.dll
IECCO	Sinus Perita Inverter (RTU)	Ciccoco.dll	Ciccoco_A.dll
Inovance Control Technology Co., Ltd.	H2u (CPU Port)	C2B041.dll	C2B041_A.dll
	MD Series Inverter (RTU)	C2C051.dll	C2C051_A.dll
	MD Series Inverter (RTU-1)	C2C051.dll	C2C051_A.dll
	IS Servo (RTU)	C2C051.dll	C2C051_A.dll
Integrated Flow Systems	Purge Source Controller	CFI001.dll	CFI001_A.dll
Invt Auto-Control Technology	I/V Series	C81003.dll	C81003_A.dll
JETTER	NANO Series	C24001.dll	C24001_A.dll
	JetControl 24x Series	C24011.dll	C24011_A.dll
Joint Peer Systec Corp.	IRIS Series	C2C031.dll	C2C031_A.dll
	JUPITER Series	C2C031.dll	C2C031_A.dll
	PDAN Series	C2C031.dll	C2C031_A.dll
	PDS Series	C2C031.dll	C2C031_A.dll
Keyence Corp.	KV Series	C25001.dll	C25001_A.dll
	KV-1000	C25011.dll	C25011_A.dll
	KV-L20V	C25021.dll	C25021_A.dll
	KV-3000	C25031.dll	C25031_A.dll
Kinco Automation Ltd.	Kinco ED Series	CKN01.dll	CKN01_A.dll
Klockner Moeller Corporation	PS4-201-MM1	C26001.dll	C26001_A.dll
	SUCONET K	N/A	N/A
Koyo Electric Corp.	K Sequence Series	C27001.dll	C27001_A.dll
	Direct Logic Series	C27011.dll	C27011_A.dll
	Direct 06 Series (K Sequence)	C27021.dll	C27021_A.dll
	Direct 06 Series (DirectNET)	C27031.dll	C27031_A.dll
Lenze Drive Systems GmbH	93xx Servo Controllers (LECOM A/B)	CLZ001.dll	CLZ001_A.dll
LG Industrial Systems	Master-K Series CNet	C28001.dll	C28001_A.dll
	K120S CPU Port	C28011.dll	C28011_A.dll
	Master-K Loader	C28011.dll	C28011_A.dll
	GLOFA GM Series CNet	C28021.dll	C28021_A.dll
	XBM-DR16S	C28031.dll	C28031_A.dll
	GLOFA GM Loader	C28041.dll	C28041_A.dll
	NEC/XGI CNet	C28051.dll	C28051_A.dll
	XGT/XGK (CPU)	C28061.dll	C28061_A.dll
	XGL-C22A	C28071.dll	C28071_A.dll
	LGA Series(as Slave)	CLGLGA.dll	CLGLGA_A.dll
LG System	LGA Series (as Master)	CLGLGB.dll	CLGLGB_A.dll
	EX Series (CPU Port)	C28141.dll	C28141_A.dll
Liyen Electric Industrial Ltd.			
Lust Antriebstechnik GmbH	LustBus Servo/C/CDE Series	Clust1.dll	N/A
	LustBus CDD Series	Clust1.dll	N/A
Matsushita Electric Works	FP Series Computer Link	C29001.dll	C29001_A.dll
	VFOC Series Inverter	C29011.dll	C29011_A.dll
	VF100 Series Inverter	C29011.dll	C29011_A.dll
	MC2 PID Controller	C85001.dll	C85001_A.dll
Maxtech	MC 5738 (RTU)	C86001.dll	C86001_A.dll
Maxthermo			
Mean Well Enterprises Co., Ltd.	PRETA	CMXMTN.dll	CMXMTN_A.dll
Megmeet	MC Series (RTU)	C81002.dll	C81002_A.dll
Micro Trend Corporation	UTC Servo Controller	C91001.dll	C91001_A.dll
MIKOM AUTOMATIC TECHNOLOGY	MX Series PLC	CMIK01.dll	CMIK01_A.dll
	nDX Controller	C2A001.dll	C2A001_A.dll
Mirle Automation Corporation	Melsec-FX (CPU Port)	C28001.dll	C28001_A.dll
	Melsec-Q/QnA (Link Port)	C28011.dll	C28011_A.dll
	Melsec-Q00Q01 (CPU Port)	C28012.dll	C28012_A.dll
	Melsec-Q02H (CPU Port)	C28021.dll	C28021_A.dll
	Melsec-Q02 (CPU Port)	C28022.dll	C28022_A.dll
	Melsec-Q02U (CPU Port)	C28191.dll	C28191_A.dll
	Melsec-Q00U (CPU Port)	C28031.dll	C28031_A.dll
	Melsec-FX2n (CPU Port)	C28041.dll	C28041_A.dll
	Melsec-FX3U (CPU Port)	C28051.dll	C28051_A.dll
	Melsec-FX3U (Link Port)	C28052.dll	C28052_A.dll
	Melsec-AnVAnS (Link Port)	C28061.dll	C28061_A.dll
	Melsec-AnVAnS Protocol 4	C28062.dll	N/A
	FX2n-10GM/20GM	C28071.dll	C28071_A.dll
	Melsec-A1S/A2S (CPU Port)	C28081.dll	C28081_A.dll
	FR-E500 Series (48S)	C28091.dll	C28091_A.dll
	Melsec-A3N/A1SH (CPU Port)	C280A1.dll	C280A1_A.dll
	Melsec-AnA/AqU (Link Port)	C28151.dll	C28151_A.dll
	Melsec-AnA/AqU Protocol 4	C28152.dll	N/A
	Servo Amplifier MR-J2S-A	C28161.dll	C28161_A.dll
	Servo Amplifier MR-J3-A	C28162.dll	C28162_A.dll
	Servo Amplifier MR-J4-A	N/A	C28163_A.dll
	Melsec-A2A/A2AS (CPU Port)	C28171.dll	C28171_A.dll
	Melsec-Q06H (CPU Port)	C28181.dll	C28181_A.dll
	Melsec-Q12H (CPU Port)	C28182.dll	C28182_A.dll
	Melsec-Q03U (CPU Port)	C28183.dll	C28183_A.dll
	Melsec-Q00U (CPU Port)	C28191.dll	C28191_A.dll
	GOT-F900 Emulator (1:1 Format 1 & 2)	C28201.dll	N/A
	Melsec-Q01U (CPU Port)	C28191.dll	C28191_A.dll
Mitutoyo Corporation	EV Linear Gage Counter (ASCII)	CMITDEV.dll	CMITDEV_A.dll
	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
Modicon Corp.	Modbus Master (ASCII)	C2C061.dll	C2C061_A.dll
	Modbus Master (ASCII; Little Memory)	C2C062.dll	C2C062_A.dll
	Modbus Device/Slave (ASCII)	C2C071.dll	C2C071_A.dll
	Modicon Device/Slave (RTU, Quantum)	C2C081.dll	C2C081_A.dll
	TSX Premium (Jini-Telway)	C2C0A1.dll	C2C0A1_A.dll
	TSX Quantum (Jini-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
MTC	Modbus Master (ASCII; Non-volatile slave data)	C2C161.dll	C2C161_A.dll
	MT C96 Controller (Modbus ASCII)	Q93001.dll	Q93001_A.dll
Muscle Corporation Inc.	Cool Muscle CM1-17L30	CCM117L.dll	CCM117L_A.dll
MyTech	VL-CX Melsec-FX2n (CPU Port)	CN2841.dll	CN2841_A.dll

Newtop Co., Ltd.	PSTC (Temperature Controller)	C2C051.dll	C2C051_A.dll
	PSBD (Brushless Driver)	C2C051.dll	C2C051_A.dll
	PSSD (Stepping Driver)	C2C051.dll	C2C051_A.dll
	PSMC (Motion Controller)	C2C051.dll	C2C051_A.dll
	PSNC (Embedded NC)	C2C051.dll	C2C051_A.dll
Omron Corporation	Sysmac C Series Host Link	C2D001.dll	C2D001_A.dll
	Sysmac CV Series Host Link	C2D011.dll	C2D011_A.dll
	Sysmac CS/CJ Series Host Link	C2D021.dll	C2D021_A.dll
	Sysmac CS/CJ Series (FINS)	C2D022.dll	C2D022_A.dll
	Sysmac CP Series (FINS)	C2D021.dll	C2D021_A.dll
	ESCN Temperature (CompoWay/F)	C2D041.dll	C2D041_A.dll
	ESCN Temperature (Modbus RTU)	C2D051.dll	C2D051_A.dll
	EJ1 Temperature (CompoWay/F)	C2D061.dll	C2D061_A.dll
Pan-Globe Corp.	KM100 (CompoWay/F)	C2D071.dll	C2D071_A.dll
	3G3MW Inverter (RTU)	C2D081.dll	C2D081_A.dll
	E9 Temperature Series	C90001.dll	C90001_A.dll
Panasonic Corporation	E9D4 Temperature (RTU)	C90011.dll	C90011_A.dll
	HT Series Temperature Controller	C90021.dll	C90021_A.dll
	FP Series	C29001.dll	C29001_A.dll
PanelMaster	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	C01064.dll	C01064_A.dll
	2-to-1 Client (COM)	C01071.dll	C01071_A.dll
	Serial Gateway Server	C010C1.dll	C010C1_A.dll
	Data Sharer (RS485)	N/A	C01S01_A.dll
	Modbus Master (RTU)	C2C041.dll	C2C041_A.dll
	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
Parker Hannifin	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)	C2C093.dll	C2C093_A.dll
	Barcode Scanner	cbcode.dll	cbcode_A.dll
	Epson Matrix Printer	CEPS0N0.dll	CEPS0N0_A.dll
	PC Series PLC Module	C1A001.dll	C1A001_A.dll
	Compac3	C32001.dll	C32001_A.dll
	HID Series (X4 RS232 Port)	CparK1.dll	CparK1_A.dll
	SLVION Series (X1 RS422/485 Port)	CparK2.dll	CparK2_A.dll
	XC Modbus RTU	C2C031.dll	C2C031_A.dll
Parker Hannifin S.p.A.	BI-500 Series (RTU)	CEI500.dll	N/A
PORIS	BI-9001 Series (RTU)	CEI9001.dll	N/A
RICH Electric Co., LTD.	MA900/CB900 Series (RTU)	C82001.dll	C82001_A.dll
	CD/CH Series (ASCII)	C82002.dll	C82002_A.dll
RKC Instrument Inc.	PCD Series (S-Bus PGU)	C31001.dll	C31001_A.dll
	PCD Series (S-Bus, Data Mode)	C31003.dll	C31003_A.dll
Saia Burgess	NOVA Series (RTU)	C88001.dll	C88001_A.dll
	NOVA Series	C88002.dll	C88002_A.dll
Samwon Technology	ATV31 Inverter (RTU)	C2C051.dll	C2C051_A.dll
	Lesum 23 Servo Controller (ASCII)	C16041.dll	C16041_A.dll
Schneider Electric	JMW10/20 Series	CSJW10.dll	CSJW10_A.dll
	EM303A	CSN01.dll	CSN01_A.dll
Sharp Corporation	Shenzhen Sine Electric Co., Ltd	C50001.dll	C50001_A.dll
	Shenzhen Step Servo Ltd.	C50001.dll	C50001_A.dll
Shenzhen V&T Technologies Co.,Ltd	V5-H	CVTT01.dll	CVTT01_A.dll
	Shenzhen Xilin Electric Tech. Co., Ltd.	CSXE01.dll	CSXE01_A.dll
Shihlin Electric&Engineering Corp.	SH Inverter	CSXH01.dll	CSXH01_A.dll
	SHIMAX CO., LTD.	CSH01.dll	CSH01_A.dll
Shinko Technos Co., Ltd.	MAC3 Series (RTU)	CSH01.dll	CSH01_A.dll
	CPT-20A MODBUS DEVICE/SLAVE (ASCII)	CSCCT1.dll	CSCCT1_A.dll
Shinko Technos Co., Ltd.	JCS-33A-R/M (Shinko Protocol)	CSJCS01.dll	CSJCS01_A.dll
	JCS-33A-R/M (Modbus ASCII)	CSJCS11.dll	CSJCS11_A.dll
Siemens AG	Simatic S7-200 (PP; 1-to-1)	C39001.dll	C39001_A.dll
	Simatic S7-200 (PP; Network)	N/A	N/A
Siemens AG	Simatic S7-300 (MPI Port)	N/A	N/A
	Simatic S7-300 (PC Adaptor)	C39031.dll	C39031_A.dll
Siemens AG	Simatic S5 3964R	C39041.dll	C39041_A.dll
	Simatic S5	C39051.dll	C39051_A.dll
Taian Automation Co.,Ltd.	TP03 Series (Modbus RTU)	CS1011.dll	CS1011_A.dll
	TP02 Series	CS1021.dll	CS1021_A.dll
Taiwan Instrument & Control Co., Ltd.	TAE FY100/900 Series (RTU)	CFY001.dll	N/A
	TAE FY100/900 Series (TAIE)	CFY002.dll	N/A
Teco Electric & Machinery Co.,Ltd.	FY Series DIGITAL PID CONTROLLER	CTAEFY.dll	N/A
	TSDA Series AC Servo	CS1001.dll	CS1001_A.dll
Teshow Electronic.	TP03 Series (Modbus RTU)	CS1011.dll	CS1011_A.dll
	TP02 Series	CS1021.dll	CS1021_A.dll
Texas Instruments Incorporated	TSTA Series AC Servo	CS1031.dll	CS1031_A.dll
	MY90V/MY40V Series (RTU)	CMY901.dll	CMY901_A.dll
Thinget Electronic Co., Ltd.	TI505	CTI505.dll	CTI505_A.dll
	XC Series Controller (RTU)	C89001.dll	C89001_A.dll
Tieon Electronics Co., Ltd.	IPC-03 Series (RTU)	C83001.dll	C83001_A.dll
	TTX-700 (Modbus RTU)	C3D001.dll	C3D001_A.dll
TOHO Electronics Inc.	TTM-000 Series (TOHO Protocol)	C3D002.dll	C3D002_A.dll
	TTM-200 Series (TOHO Protocol)	C3D003.dll	N/A
TOKY ELECTRICAL	DWB-CD18B	CTDW80.dll	CTDW80_A.dll
	UCM-04A	CTK001.dll	CTK001_A.dll
Tokyo Keiso	TOS/VERT VF Series (Modbus RTU)	C84001.dll	C84001_A.dll
Toshiba Schneider Inverter Corporation	Vision 120 Series (Modbus RTU)	C44001.dll	C44001_A.dll
	Unitronics	CVT26.dll	CVT26_A.dll
Vertex Technology Co., Ltd	VT26/30 Series Controllers (RTU)	CVT26.dll	CVT26_A.dll
	Vigor Corporation	C42001.dll	C42001_A.dll

Brand	Model	PC/Simulation	WinCE(ARM)
VIPA GmbH	VIPA 100V/200V MPI Port	N/A	N/A
Vware	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
	Data Sharer (RS485)	N/A	C01S01_A.dll
Wanfeng Electric	WF Series	C42001.dll	C42001_A.dll
YABOS	Hospital System	CYHS01.dll	CYHS01_A.dll
YABOS	Dentists	CYHS02.dll	CYHS02_A.dll
	Single-axis Robot Controller ERCD	CYAERC0.dll	CYAERC0_A.dll
YAMAHA MOTOR CO., LTD.	SDC35/36 Temperature (RTU)	C44001.dll	C44001_A.dll
Yamatate Corporation	SDC35/36 Temperature (ASCII)	C44011.dll	C44011_A.dll
	MA500 FA Controller (ECL Host)	C44021.dll	C44021_A.dll
	DMC10 Controller (RTU)	C44031.dll	C44031_A.dll
	DMC10 Controller (ASCII)	C44041.dll	C44041_A.dll
	MX30	CyAMX30.dll	CyAMX30_A.dll
Yaskawa Corporation	MX50	CyAMX50.dll	CyAMX50_A.dll
	Z-II SGMWH Series AC Servo	C45001.dll	C45001_A.dll
	MP Series Controller (Memobus)	C45011.dll	C45011_A.dll
	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
	YJD Servo Controller	Cyeli2.dll	Cyeli2_A.dll
Yokogawa Electric Corporation	FA-M3 Series (CPU Port)	C46001.dll	C46001_A.dll
Yudian Automation Technology Ltd.	AI-7048 (AIbus)	C47001.dll	C47001_A.dll
	A518/709/808/518P/709P/808P Controller (AIbus)	C47011.dll	C47011_A.dll
Zhuhai Motion Control Motor Co., Ltd.	BP Series PSDA driver (RTU)	C2C2P1.dll	N/A

Direct Link (Ethernet)

Advantech	BACnet/IP	N/A	N/A
	BAS BACnet/IP	N/A	N/A
	ADAM-6000 (ModBus TCP/IP)	CM6M00.dll	CM6M00_A.dll
Allen Bradley	MicroLogix 1000/1500 via 1761-NET-EN	C10E01.dll	C10E01_A.dll
	MicroLogix	C10E02.dll	C10E02_A.dll
	CompactLogix/ControlLogix Ethernet/IP Tag	C10E21.dll	C10E21_A.dll
	Modbus Master (TCP/IP)	C2C001.dll	C2C001_A.dll
	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)	C2C111.dll	C2C111_A.dll
Bosch Rexroth	Modbus Device/Slave (TCP/IP; Type 2)	C2C111.dll	C2C111_A.dll
	CMZ Sistemi Elettronici	Cmz111.dll	Cmz111_A.dll
DEIF A/S	TC/IP Modbus (Ethernet port)	C2C112.dll	C2C112_A.dll
EasyIO	EasyIO-30 (RTU)	C2C211.dll	C2C211_A.dll
Fatek Automation Corp.	Fatek FBe/FBe (TCP)	C1A011.dll	C1A011_A.dll
Festo Corporation	PPC/FEC EasyIP	C1C002.dll	C1C002_A.dll
GE Corporation	SRTP Ethernet	C1E101.dll	C1E101_A.dll
	SRTP Ethernet (Micro)	C1E102.dll	C1E102_A.dll
Hitachi Industrial Equipment Systems Co., Ltd	EHEHV Series (Ethernet; TCP)	C1F006.dll	N/A
	EHEHV Series (Ethernet; UDP)	C1F007.dll	N/A
Honeywell	BACnet/IP	N/A	N/A
JETTER	JetControl 24x Series (Ethernet)	C24012.dll	N/A
Keyence Corp.	KV-5000	C25041.dll	C25041_A.dll
Lenze Drive Systems GmbH	E94AYCEN GX(TCP/IP) Protocol	CL2003.dll	CL2003_A.dll
LG Industrial Systems	XGT/XGK (CPU)	C28081.dll	C28081_A.dll
	Fama SoftPLC Ethernet	C19E01.dll	C19E01_A.dll
Mirie Automation Corporation	Modbus Device/Slave (TCP/IP)	C2C011.dll	C2C011_A.dll
	Q Ethernet	C2BE11.dll	C2BE11_A.dll
Mitsubishi Electric Corp.	Q Ethernet (ASCII code)	C2BE12.dll	C2BE12_A.dll
	Melsec-FX3U (MC-Protocol)	C2BE52.dll	C2BE52_A.dll
Modicon Corp.	Modbus Master (TCP/IP)	C2C001.dll	C2C001_A.dll
	Modbus Device/Slave (TCP/IP)	C2C011.dll	C2C011_A.dll
	Modbus Master (TCP/IP; Type 2)	C2C101.dll	C2C101_A.dll
	Modbus Device/Slave (TCP/IP; Type 2)	C2C111.dll	C2C111_A.dll
	Omron Corporation	C2D001.dll	C2D001_A.dll
Panasonic Corporation	FP Series Computer Link	CPAN20.dll	CPAN20_A.dll
	N-to-1 Master (Ethernet)	C01021.dll	C01021_A.dll
PanelMaster	N-to-1 Slave (Ethernet)	C01031.dll	C01031_A.dll
	TCP/IP Gateway Server	C010B1.dll	C010B1_A.dll
	Data Sharer (UDP)	C01E01.dll	C01E01_A.dll
	Ping	N/A	N/A
	Modbus Device/Slave (TCP/IP)	C2C211.dll	C2C211_A.dll
PORIS	Internal Memory Server	C2C301.dll	C2C301_A.dll
	Internal Memory	C2C311.dll	C2C311_A.dll
Saia Burgess	XC ModBus TCP	C2C011.dll	C2C011_A.dll
	PCD Series (Ether S-Bus)	C31007.dll	C31007_A.dll
Siemens AG	Simatic S7-300 Ethernet Module (CP343)	C39E01.dll	C39E01_A.dll
	SIMATIC S7 (Ethernet)	C39E02.dll	C39E02_A.dll
TPM	SIMATIC S7-200 SMART (Ethernet)	C39E11.dll	C39E11_A.dll
	EPIC-1000	CTEPC0.dll	CTEPC0_A.dll
Vware	N-to-1 Master (Ethernet)	C01021.dll	C01021_A.dll
	N-to-1 Slave (Ethernet)	C01031.dll	C01031_A.dll
WAGO Kontakttechnik GmbH & Co. KG	WAGO-I/O-SYSTEM 750	CWAG01.dll	CWAG01_A.dll
Yaskawa Corporation	Modbus Device/Slave (TCP/IP)	C45012.dll	C45012_A.dll
	Extended MEMOBUS	C45013.dll	C45013_A.dll
Yokogawa Electric Corporation	FA-M3 Series (UDP)	C46002.dll	C46002_A.dll
	FA-M3 Series (TCP)	C46003.dll	C46003_A.dll

Note:

- 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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Please verify specifications before quoting. This guide is intended for reference purposes only.

All product specifications are subject to change without notice.

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