



InSerial



智慧閘道器

Controller Gateway

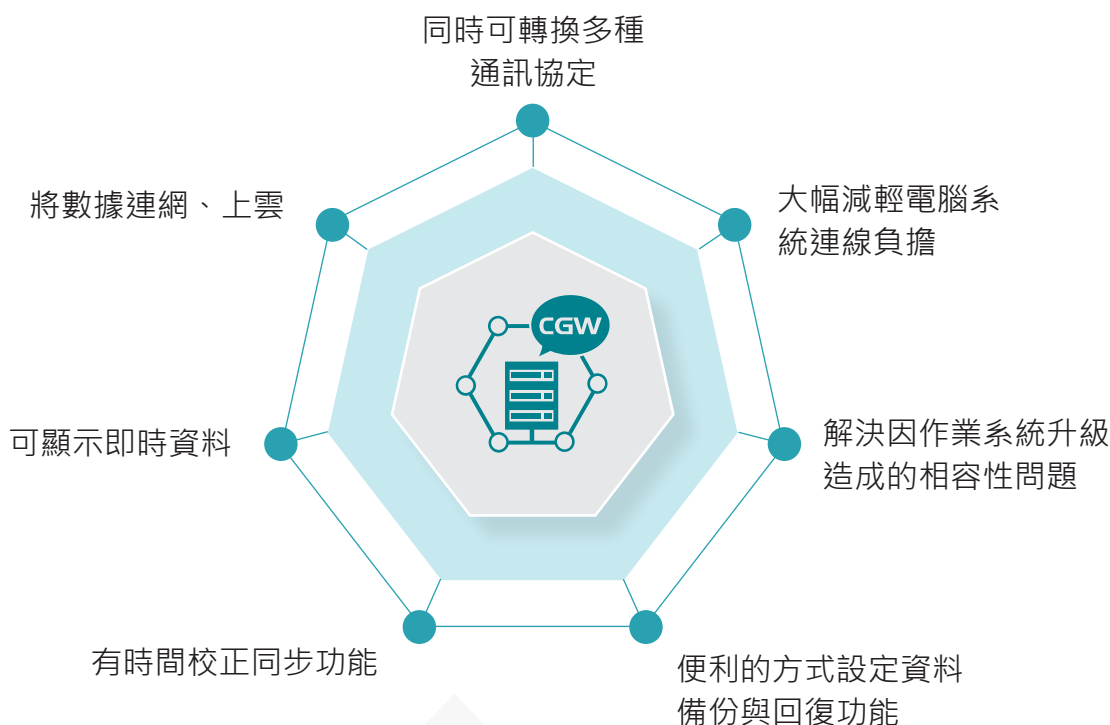
/ 工業通訊解決方案 - 整合全廠通訊協定的
聰明選擇 /

一台即轉換超過 15 種以上工業常用通訊協定，整合簡化系統與設備通訊架構的首選。

您值得更簡單有效率的方式轉換多種通訊協定，同時簡化通訊架構、穩定系統連線。

智慧閘道器 CGW 可整合工業常用通訊協定，並可透過 OPC UA 建立工業物聯網基礎。獨立的作業平台可減少電腦安裝的 Driver，簡化系統通訊架構並大幅減少現場電腦因負載過高當機的风险，您也無須再擔心作業系統升級造成的 Driver 不相容問題。

CGW 為您解決痛點、實現目標



CGW 主要特色

1. 工業設備常用協定，CGW 皆可轉換

CGW 支援超過 15 種工業通訊協定，解決不同通訊協定的 PLC、設備、系統無法資料交換的問題，您也不需再準備多種的閘道器來對應不同通訊協定。

2. 多種埠數選擇、提供連網功能

CGW 提供 2 個乙太網路埠及 2、4、8、16 個 RS-232 / 422 / 485 埠。其中 2 埠 CGW 提供 4G 與 WiFi 功能，實現數據上雲。

4. 充分掌握通訊品質

CGW 可診斷每個 I/O 以及即時記錄 PLC 或設備的通訊狀態。並且具備時間校正功能，確保系統運作時間一致。

3. 解決 Driver 相容性問題、減輕系統負擔

CGW 不需設定 DCOM，也不會因作業系統升級無法使用。具備自我診斷功能，有異常自動重啟，維護輕鬆容易。

5. 支援各埠間數據轉換

可設定類比轉換，將原始值轉為工程值。支援 Port to Port、Port to Ethernet、Ethernet to Ethernet。

CGW 通訊傳輸架構



Ethernet / Serial



註 1 : LCS 為 LocalScrubber 縮寫 ;DPM 為 DryPump 縮寫。

支援之通訊協定、PLC 與設備型號

#	Dry pump	Type	Protocol	Interface
1	ALCATEL (ADIXEN)	ADP 122 P, ADP 122 LM, ADS 602 H, ADS 602 P, ADS 602 LM, ADS 1202 H, ADS 1202 P, ADS 1802 H, ADS 1802 P	Alcatel ADP ADS Series	RS-232 / 485
		IPUP A100L	ALCATEL IPUP A100 Series	RS-232 / 485
		ATH 1300 M, ATH 1600 M, ATH 1603 M, ATH 2300 M, ATH 2303 M, ATH 2800 M, ATH 3200 M, ATP 2300 M, ATH 1300 MT, ATH 1600 MT, ATH 2300 MT, ATH 2800 MT, ATH 3200 MT equipped with heater band	Alcatel ATH	RS-232 / 485
2	LEVITRONIX	BPS-4 Pump System	Levitronix Serial	RS-232
3	Pfeiffer Vacuum	DCU 110 / 200 / 300 / 600	Pfeiffer Vacuum DCU	RS-485
		TC110 / 400 / 1200 Electronic Drive Unit	Pfeiffer Vacuum TC	RS-485
		A 124H, A 204H, A 604H, A 804H, A 1204H, A 1504H, A 1804H, A 204X, A 804X, A 1504X, A 1804X, A 1504XN, A 1804 XN	Pfeiffer Vacuum A4 Series	RS-232 / 485
4	Varian Turbo	V301 Navigator	Varian Turbo V301	RS232 / 485 / 422 Optional
5	Ebara	A series, AA series, AA-V1 series, AAS series, A200W, A400P, A300W, AAS72W+AA400BP, AAS900TN, AAE series	EBARA A Series	RS-232
		ESR Series, VOS Series, EST Series, EST 200WN-TE, A300W-T, A300WM-IU, EV-S Series, EV-M Series, ESA 25XW, ESA 30XW, ESA 25D, ESA 70WD, ESA 80W-HDF, ESA 80W-HDF(INV), ESA 100W, ESA 100WN, ESA 300W, ESA 500W	EBARA ESx Series	RS-232
		G5 SCRUBBER CMS COMMUNICATION	EBARA G5 Scrubber CMS Comm	RS-232
6	Edwards	iGX / GX / iXH / iXL / pXH / iQ / iH Control System	Edwards Series	RS-232
		SCU-750 / 800 / 1500 / 1600	Edwards SCU Control Unit	RS-232 / 485
7	Kashiyama	SDE Series (PC201 Controller)	Kashiyama SDE Series	RS-422
		MU & T Series (PC80 Controller)	Kashiyama MU & T Series	RS-232

#	Local Scrubber	Type	Protocol	Interface
1	CSK	Modbus TCP	Modbus Ethernet	TCP
2	IPI	Modbus TCP	Modbus Ethernet	TCP
3	CT	SS003A1-KH	Modbus Ethernet	TCP
4	Edwards	Helios, ATSP, MK3B, Proteus	Modbus Ethernet	TCP
5	吉利康	ACS1	Modbus Ethernet	TCP
6	漢科	AWTC	Modbus Ethernet	TCP
7	KanKen	KT1000FA	Omron FINS Ethernet	TCP / UDP
8	DAS	Salix, StyraX, Escap	Omron FINS Ethernet	TCP / UDP
9	Ebara	EUV	Keyence PLC	TCP

#	PLC	Type	Protocol	Interface
1	Allen-Bradley (AB)	SLC 500, PLC5	AB DF1	RS-232 / 485
		SLC500, CompactLogix, MicroLogix , ControlLogix	AB CIP	TCP
2	Emerson (GE)	90-30, 90-70, RX3i, Rx7i, VersaMAX, VersaMax Micro, VersaMax Nano	GESNP	RS-232 / 485
		90-30, 90-70, RX3i, Rx7i, VersaMAX, VersaMax Micro, VersaMax Nano	GESRTP	TCP
3	Mitsubishi	A Series, AnA / AnU Series, Q Series, QnA Series, FxN Series, FX3U Series, FX5U Series	Mitsubishi Serial	RS-232 / 485 / 422
		A Series, AnA / AnU Series, FxN Series, Q Series, QnA Series, iQ-R Series, iQ-F Series , FX3U Series, FX5U Series	Mitsubishi Ethernet	TCP / UDP
4	OMRON	CS / CJ / CP / CV Series	Omron FINS Serial	RS-232 / 485
		CS / CJ / CP / CV Series	Omron FINS Ethernet	TCP / UDP
		CV Series (CV500 / CV1000 / CV2000 / CVM1), C Series(C20H / C200H / CQM1)	Omron HostLink	RS-232 / 485
5	Schneider	Modbus ASCII / RTU	Modbus Serial	RS-232 / 485 / 422
		Modbus TCP	Modbus Ethernet	TCP
6	Siemens	S7-200 / 300 / 400 / 1200 / 1500	SIEMENS S7 Ethernet	TCP
7	Yaskawa	CP218TX	Yaskawa PLC (Memobus)	TCP
8	KOYO	Koyo H0 / H2 / H4 w / ECOM100	Koyo PLC (Modbus TCP)	TCP
9	FATEK	FBs PLC	FATEK FBs Series	RS-232 / 485
10	Keyence	KV Nano, KV-700 / 1000 / 3000 / 5000 / 7000 / 8000	Keyence PLC	TCP

#	Other Equipment		Type	Protocol	Interface
1	秤重顯示器 (Weighing Scale)	METTLER TOLEDO	IND231 / IND236 / IND780 Weighing Terminal	Mettler Toledo IND	RS-232
		KUBOTA	KL-D1000 Weight Indicator	Kubota KL D1000	RS-232
		UWE	1705 Digital Weighing Indicator	UWE1705	RS-232
		A&D Weighing	AD-4328	AD-4328	RS-232 / 485 / 422
2	地震儀 (Seismograph)	IMV	SW74T	Seismic Serial	RS-232
			SW94	Seismic Serial	RS-232
3	單回路控制器	YOKOGAWA	YS1000	Yokogawa Serial	RS-232
4	溫度控制器	YOKOGAWA	UT551	Yokogawa Serial	RS-232
5	水份分析儀 (Moisture Analyzer)	AMETEK	3050 AM, 5830, 5900 / 5910 / 5920 UHP Moisture Analyzer	Ametek Moisture Analyzer	RS-232 / 485
6	三福氣體氣櫃	Air Products and Chemicals, Inc.	APCI GASGUARD 450 / 500 / 250, GasGuard AP2 / AP3 Gas Cabinet Controller	APCI GASGUARD MONITORING PROTOCOL	RS-232 / 422 / 485
7	廢氣處理	CS CLEAN SOLUTIONS	CLEANSORB Controller	CLEANSORB Controller	RS-232
8	紙帶式偵測器	Honeywell	CM4 Toxic Gas Monitor	Honeywell CM4	RS-232 / 422 / 485
9	無線監控落塵量測系統 (PMS)	Particle Measuring Systems (PMS)	PMS HPGP-101-C High Pressure Gas Probe with PDS-E	Particle Hpgp 101	RS-232
10	微氧氣體分析儀	SERVOMEX	DF-550E Oxygen Analyzer	SERVOMEX Delta F Oxygen Analyzer Nano Trace	RS-232 / 422
11	風扇過濾組	AIRTECH	AIRTECH FFU	AIRTECH FFU	RS-232
12	漏油偵測	Agar Environmental Ltd.	Leakwise CDSP-220	GE Leakwise DSP220	RS-232 / 485
13	氣體分析儀	Peak Performer	Peak Performer 1 Series (Gas Analyzers)	Peak Performer 1 Series	Port 2 : RS-232
14	真空顯示器	PFEIFFER VACUUM	PFEIFFER TPG 256A VACUUM CONTROLLER	Maxigauge TPG256A	RS-232 / 422 / 485
15	RFID 讀取器	PONGEE	PK-UHF201 UHF Long Range RFID Reader And Writer	RFID Reader	RS-232 / 485
				Powerware UPS	RS-232
16	不斷電系統	Eaton	Powerware UPS	Modbus Ethernet	TCP
17	超純水微粒子計數器	Praxair	Praxair UP100 Ultrapurge Gas Cabinet System Controller	Praxair UP100	Port 1 : RS-422 Port 2 : RS-485
18	熱質式流量計	Tokyo Keiso	Tokyo Keiso TRX-700 Series Thermal Flowmeter Converter	Tokyo Keiso RTX-700 Series	RS-485
19	晶體振盪型沉積控制器 (膜厚儀)	ULVAC	ULVAC CRTM-9000G Crystal Oscillation type Deposition Controller	ULVAC CRTM-9000G	RS-232

※ 以上為智慧閘道器 CGW 所支援常見的工業通訊協定，更多支援細項歡迎與我們洽詢！

CGW 512



Ethernet Communications

Compatibility	IEEE 802.3, IEEE 802.3u
Speed	10/100 Mbps
No. of Ports	2
Port Connector	8-pin RJ45
Protection	Built-in 2.25 k VDC magnetic isolation

Serial Communications

Port Type	RS-232/422/485-2w/485-4w, software selectable (CGW 512 CI-CE supports RS-422/485 only)
No. of Ports	2
Port Connector	DB9 male
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Odd, Even, Space, Mark
Flow Control	XON/XOFF, RTS/CTS
Baud Rate	50 bps ~ 921.6 kbps, any baud rate setting
Serial Signals	[CE Version] RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND, DTR, DSR RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485 2-wire: Data+, Data-, GND [DE Version] DB9: RS-232 isolation: TxD, RxD, CTS, RTS, GND RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND, DTR, DSR Terminal Block (From top to bottom): RS-422: GND, RxD-, RxD+, TxD+, TxD- RS-485 2-wire: GND, NC, NC, TxD+, TxD- RS-485 4-wire: GND, RxD-, RxD+, TxD+, TxD-
Protection	Built-in 15 KV ESD for all signals

Software

Configuration	Web Browser
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Mechanics

Dimensions (W x H x D)	42 x 140 x 95 mm (1.18" x 5.51" x 3.74")
Enclosure	Metal with solid mounting hardware
Mounting	DIN-rail, Wall
Weight	0.537kg
IP Rating	IP30

General

LED Indicators	System: Power, System Status/LAN: Speed, Link/Active Serial: Tx, Rx
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Power Requirements

Input	12 ~ 48 VDC, redundant dual inputs
Connector	Terminal block
Consumption	4.1W

Environment

Operating Temperature	-10 ~ 60 °C (14 ~ 140 °F) 'CI & I' models: -40 ~ 80 °C (-40 ~ 176 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Operating Humidity	10 ~ 95% RH

Regulatory Approvals

EMC	CE, FCC Part 15 Subpart B (Class A)
Hazardous location	UL/cUL (Class I, Division 2, Groups A, B, C and D), ATEX (Zone 2 Ex nA nC IIC T4 Gc)

Port to Port Isolation ('CI' models)

Serial to Ethernet	2 kV
Serial to Power	2 kV
Ethernet to Power	1.5 kV

CGW 514



Ethernet Communications

Compatibility	IEEE 802.3, IEEE 802.3u
Speed	10/100 Mbps
No. of Ports	2
Port Connector	8-pin RJ45
Protection	Built-in 2.25 k VDC magnetic isolation

Serial Communications

Port Type	RS-232/422/485-2w/485-4w, software selectable (CGW 512 CI-CE supports RS-422/485 only)
No. of Ports	4
Port Connector	DB9 male
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Odd, Even, Space, Mark
Flow Control	XON/XOFF, RTS/CTS
Baud Rate	50 bps ~ 921.6 kbps, any baud rate setting
Serial Signals	[CE Version] RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND, DTR, DSR RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485 2-wire: Data+, Data-, GND [DE Version] DB9: RS-232 isolation: TxD, RxD, CTS, RTS, GND RS-232: TxD, RxD, CTS, RTS, DCD, RI, GND, DTR, DSR Terminal Block (From top to bottom): RS-422: GND, RxD-, RxD+, TxD+, TxD- RS-485 2-wire: GND, NC, NC, TxD+, TxD- RS-485 4-wire: GND, RxD-, RxD+, TxD+, TxD-
Protection	Built-in 15 KV ESD for all signals

Software

Configuration	Web Browser
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Mechanics

Dimensions (W x H x D)	30 x 140 x 95 mm (1.18" x 5.51" x 3.74")
Enclosure	Metal with solid mounting hardware
Mounting	DIN-rail, Wall
Weight	0.45kg
IP Rating	IP30

General

LED Indicators	System: Power, System Status/LAN: Speed, Link/Active Serial: Tx, Rx
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Power Requirements

Input	12 ~ 48 VDC, redundant dual inputs
Connector	Terminal block
Consumption	3.2 W

Environment

Operating Temperature	-10 ~ 60 °C (14 ~ 140 °F) 'CI & I' models: -40 ~ 80 °C (-40 ~ 176 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Operating Humidity	10 ~ 95% RH

Regulatory Approvals

EMC	CE, FCC Part 15 Subpart B (Class A)
Hazardous location	UL/cUL (Class I, Division 2, Groups A, B, C and D), ATEX (Zone 2 Ex nA nC IIC T4 Gc)

Port to Port Isolation ('CI' models)

Serial to Ethernet	2 kV
Serial to Power	2 kV
Ethernet to Power	1.5 kV

CGW 516



Ethernet Communications

Compatibility	IEEE 802.3, IEEE 802.3u IEEE 802.3ab
Speed	10/100/1000 Mbps, auto MDI/MDIX
No. of Ports	2
Port Connector	8-pin RJ45
Protection	Built-in 1.5 KV magnetic isolation

Serial Communications

Port Type	RS-232/422/485, software selectable
No. of Ports	16
Port Connector	DB9 male (also provide RJ45)
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Odd, Even, Space, Mark
Flow Control	XON/XOFF, RTS/CTS, DTR/DSR
Baud Rate	50 bps ~ 921.6 kbps, any baud rate setting , 16 ports up to 230.4 kbps simultaneously
Serial Signals	RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, GND, RI RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND
Protection	15 KV ESD for all signals

Software

Configuration	Web Browser
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Mechanics

Dimensions (W x H x D)	438 x 43.6 x 259.2 mm (17.24" x 1.71" x 10.2")
Enclosure	SECC chassis
Mounting	Rack

General

LED Indicators	System: Power, System Status/LAN: Speed, Link/Active Serial: Tx, Rx
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Power Requirements

Input	12 ~ 48 VDC, redundant dual inputs
Connector	Terminal block
Consumption	4.1W

Environment

Operating Temperature	-10 ~ 60 °C (14 ~ 140 °F) 'CI & I' models: -40 ~ 80 °C (-40 ~ 176 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Operating Humidity	10 ~ 95% RH

Regulatory Approvals

EMC	CE, FCC Part 15 Subpart B (Class A)
Hazardous location	UL/cUL (Class I, Division 2, Groups A, B, C and D), ATEX (Zone 2 Ex nA nC IIC T4 Gc)

CGW 518



Ethernet Communications

Compatibility	IEEE 802.3, IEEE 802.3u IEEE 802.3ab
Speed	10/100/1000 Mbps, auto MDI/MDIX
No. of Ports	2
Port Connector	8-pin RJ45
Protection	Built-in 1.5 KV magnetic isolation

Serial Communications

Port Type	RS-232/422/485, software selectable
No. of Ports	8
Port Connector	DB9 male (also provide RJ45)
Data Bits	7, 8
Stop Bits	1, 2
Parity	None, Odd, Even, Space, Mark
Flow Control	XON/XOFF, RTS/CTS, DTR/DSR
Baud Rate	50 bps ~ 921.6 kbps, any baud rate setting , 16 ports up to 230.4 kbps simultaneously
Serial Signals	RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, GND, RI RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND
Protection	15 KV ESD for all signals

Software

Configuration	Web Browser
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Mechanics

Dimensions (W x H x D)	438 x 43.6 x 259.2 mm (17.24" x 1.71" x 10.2")
Enclosure	SECC chassis
Mounting	Rack

General

LED Indicators	System: Power, System Status LAN: Speed, Link/Active Serial: Tx, Rx
Alert Tools	Built-in buzzer and RTC (real time clock)
Reboot Trigger	Built-in WDT and push button for hardware reboot

Power Requirements

Input	100 ~ 240 VAC , 50 ~ 60 Hz , VDC 12 -48 VDC
Connector	VHDC 120 -270 VDC, Terminal Block
Consumption	5.6 W

Environment

Operating Temperature	-10 ~ 60 °C (14 ~ 140 °F) 'CI & I' models: -40 ~ 80 °C (-40 ~ 176 °F)
Storage Temperature	-40 ~ 85 °C (-40 ~ 185 °F)
Operating Humidity	10 ~ 95% RH

Regulatory Approvals

EMC	CE, FCC Part 15 Subpart B (Class A)
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訂購型號

Serial

CGW 512/514/518/516	2/4/8/16 埠 RS-232/422/485 可透過軟體選擇
OPT1I	1 公尺 RJ45 轉 DB9 公型連接線 ; 518/516 適用 (選購)
OPT1J	30 公分 RJ45 轉 DB9 公型連接線 ; 518/516 適用 (選購)
1702002600	美規電源接頭及 1.8 公尺長電源線 ; 518/516 適用 (選購)
1702002605	歐規電源接頭及 1.8 公尺長電源線 ; 518/516 適用 (選購)
1702031801	英制電源接頭及 1.8 公尺長電源線 ; 518/516 適用 (選購)
1702031836	中國與澳洲電源接頭及 1.8 公尺長電源線 ; 518/516 適用 (選購)

※ 內容隨時可能有異動・科勝科技保留一切變更修改權力・且不另行通知・2023.12



科勝科技

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