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ISaGRAF

:

VP-25W7/23W7 CD: \napdos\isagraf\vp-25w7-23w7\english-manu\
"user_manual_i_8xx7.pdf" and "user_manual_i_8xx7_appendix.pdf"
http://www.icpdas.com/products/PAC/i-8000/getting_started_manual.htm

ISaGRAF

:

VP-25W7/23W7 CD: \napdos\isagraf\vp-25w7-23w7\chinese-manu\
"chinese_user_manual_i_8xx7.pdf" and "chinese_user_manual_i_8xx7_appendix.pdf"
http://www.icpdas.com/products/PAC/i-8000/getting_started_manual.htm

: NS-205/NS-208

http://www.icpdas.com/products/Switch/switch_list_c.htm



Model: NS-205



Model: NS-208

:

http://www.icpdas.com/products/Accessories/power_supply/power_list.htm

DP-660 : 24 V / 2.5 A , 5 V / 0.5 A (DIN-Rail mounting)

DP-665 : 24 V / 2.5 A , 5 V / 0.5 A

DP-1200 : 24 V / 5 A



Model: DP-660



Model: DP-1200



Model: DP-665

FAQ

:

www.icpdas.com > FAQ > Software > ISaGRAF Ver.3 (Chinese)

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<http://www.icpdas.com/faq/isagraf.htm>

VP-2xW7 I/O

VP-25W7/23W7

I-8K/I-87K

I/O

RS-485/FRnet

I/O

[ISaGRAF](#)

1. www.icpdas.com

2. ISaGRAF

3.

4.

I/O : (Parallel Bus)

I-8K

www.icpdas.com

- 8K & 87K I/O

I-8K	
I-8014W	16-bit 250K sampling rate 8/16-ch. analog input module (The scan rate cannot reach 250K when using in the ISaGRAF PAC)
I-8017HW	8-ch. Differential or 16-ch. Single-ended, 14-bit, High Speed Analog Input Module. (current input require external 125 K resistor) (The scan rate cannot reach 100K when using in the ISaGRAF PAC)
I-8024W	4-ch. Isolated Analog Output Module (+/-10 V, 0 ~ +20 mA)
I-8K	
I-8037W	16-ch. Isolated Open Collector Output Module
I-8040W	32-ch. Isolated Digital Input Module
I-8040PW	32-ch. Isolated Digital Input with Low Pass Filter Module
I-8041W	32-ch. Isolated Open Collector Digital Output Module (Sink)
I-8041AW	32-ch. Isolated Open Collector Digital Output Module (Source)
I-8042W	16-ch. Isolated Digital Input & 16-ch. Isolated Open Collector Digital Output Module
I-8046W	16-ch. Isolated Digital Input Module
I-8050W	16-ch. Universal Digital I/O Module
I-8051W	16-ch. Non-isolated Digital Input Module
I-8052W	8-ch. Differential Isolated Digital Input Module
I-8053W	16-ch. Isolated Digital Input Module
I-8053PW	16-ch. Isolated Digital Input with Low Pass Filter Module
I-8054W	8-ch. Isolated Digital Input Module & 8-ch. Isolated Open Collector Digital Output Module
I-8055W	Non-isolated 8-ch. Digital Logic Input Module & 8-ch. Open Collector Digital Output Module
I-8056W	16-ch. Non-isolated Open Collector Output Module
I-8057W	16-ch. Isolated Open Collector Output Module
I-8058W	8-ch. Differential Isolated Digital Input Module, Max. AC/DC Input : 250V
I-8060W	6-ch. Relay Output Module, AC: 0.6 A @ 125 V , 0.3 A @ 250 V; DC: 2 A @ 30 V
I-8063W	4-ch. Differential Isolated digital input & 4-ch. Relay output module, AC : 0.6 A @ 125 V ; 0.3 A @ 250 V
I-8064W	8-ch. Power Relay Output Module, AC: 5 A @ 250 V, DC: 5 A @ 30 V
I-8068W	4-ch. Form-A, 5 A @ 250 V _{AC} /28 V _{DC} & 4-ch. Form-C, 5 A (NO) /3 A (NC) @ 277 V _{AC} /30 V _{DC} Relay Output Module
I-8069W	8-ch. PhotoMOS Relay Output Module, Max. AC/DC: 1 A @ 60 V
I-8K /	
I-8084W	4-ch. Encoder, can be dir/pulse, or up/down or A/B phase (Quad. mode), Not support Encoder Z-index
I-8088W	8-ch. PWM Output and 8-ch. isolated DI Module, software support 1 Hz ~ 100 kHz (non-continuous).
I-8K	

I-8093W	3-axis Encoder Module, max. 1M Hz for quadrant input mode, max. 4M Hz for pulse/direction and cw/ccw input model
I-8090W	3-axis Encoder Module
I-8091W	2-axis Stepping/Servo Motor Control Card without encoder input
I-8092F	High Speed 2-axis Motion Control Module, with FRnet Master (For XP-8xx7-CE6 only)
I-8094	High Speed 4-axis Motion Control Module (For XP-8xx7-CE6 only)
I-8094F	High Speed 4-axis Motion Control Module, with FRnet Master (For XP-8xx7-CE6 only)
I-8K	
I-8112iW	2-ch. Isolated RS-232 Expansion Module
I-8114W	4-ch. non-isolated RS-232 Expansion Module
I-8114iW	4-ch. Isolated RS-232 Expansion Module
I-8142iW	2-ch. Isolated RS-422/485 Expansion Module
I-8144iW	4-ch. Isolated RS-422/485 Expansion Module
I-8172W	2-port FRnet Module
I-8K CAN Bus	
I-8123W	1 Port High Performance CANopen Master Module

RS-485 I/O : ;
www.icpdas.com > > > **- 8K & 87K I/O**

I-87K	
I-87005W	8-ch. Thermistor input and 8-ch. digital output module
I-87013W	4-ch., 16-bit, 10 Hz (Total), 2/3/4 Wire RTD Input Module with Open Wire Detection
I-87015W	7-ch., 16-bit, 12 Hz (Total), RTD Input Module with Open Wire Detection (for short sensor distance)
I-87015PW	7-ch. RTD Input Module with 3-wire RTD lead resistance elimination and with Open Wire Detection (for long sensor distance)
I-87017RW	8-ch. Differential , 16/12-bit, 10/60 Hz (Total) Analog Input Module with 240 V _{rms} Over Voltage Protection, Range of -20 ~ +20 mA Requires Optional External F G Í Á Á Ü ^ • ã • c [i
I-87017RCW	8-ch. Differential , 16/12-bit, 10/60 Hz(Total) Current Input Module
I-87017W	8-ch. Analog Input Module
I-87017W-A5	8-ch. High Voltage Input Module
I-87017DW	8-ch. Analog Input Module (Gray Cover) (RoHS)
I-87017ZW	10/20-ch. Analog Input Module with High Voltage Protection (RoHS)
I-87018PW	8-ch. Thermocouple Input Module (Gray Cover) (RoHS)
I-87018RW	8-ch. Thermocouple Input Module. Recommend to use the better I-87018Z.
I-87018W	8-ch. Thermocouple Input Module. Recommend to use the better I-87018Z.
I-87018ZW	10-ch. Differential , 16-bit, 10 Hz (Total), Thermocouple Input Module with 240 V _{rms} Over Voltage Protection, Open Wire Detection, Range of +/-20 mA, 0~20 mA, 4~20 mA requires Optional External 125 Resistor
I-87019PW	8-ch. Universal Analog Input Module (RoHS) (With a CN-1824 Daughter Board)

I-87019RW	8-ch. Diff. , 16-bit, 8 Hz (Total), Universal Analog Input Module with 240 V _{rms} Over Voltage Protection, Open Wire Detection (V, mA, Thermocouple; Range of -20 ~ +20 mA need to set Jumper on board)
I-87019ZW	10-ch. Universal Analog Input Module (Gray Cover) (RoHS), Includes the I-87019ZW Module and a DB-1820 Daughter Board
I-87024CW	4-ch. 12-bit channel to channel isolated current output module with open-wire detection
I-87024DW	4-ch. 14-bit analog output module
I-87024RW	4-ch. 14-bit analog output module
I-87024W	4-ch. 14-bit analog output module (0 ~ +5 V, +/-5 V, 0 ~ +10 V, +/-10 V, 0 ~ +20 mA, +4 ~ +20 mA)
I-87028CW	8-ch. 12-bit current output module
I-87H17W	8-ch. analog input module and HART master module.
I-87K Multifunction	
I-87026PW	6-ch. Analog Input, 2-ch. Analog Output, 2-ch. Digital Input and 2-ch. Digital Output Module (RoHS)
I-87K	
I-87037W	16-ch. source type Isolated Digital Output Module(RoHS)
I-87040W	32-ch. Isolated Digital Input Module
I-87040PW	32-ch. Isolated Digital Input Module with 16-bit Counters (RoHS)
I-87041W	32-ch. Sink Type Open Collector Isolated Digital Output Module
I-87046W	16-ch. Non-Isolated Digital Input Module for Long Distance Measurement
I-87051W	16-ch. Non-Isolated Digital Input Module
I-87052W	8-ch. Differential , Isolated Digital Input Module
I-87053PW	16-ch. Isolated Digital Input Module with 16-bit Counters
I-87053W	16-ch. Isolated Digital Input Module
I-87053W-A5	16-ch. 68 ~ 150 V _{DC} Isolated Digital Input Module
I-87053W-AC1	16-ch. AC Isolated Digital Input Module with 16-bit Counters
I-87053W-E5	16-channel 68-150 V _{DC} solated Digital Input Module with 16-bit Counters
I-87054W	Isolated 8-ch. DI and 8-ch. Open Collector DO Module
I-87055W	Non-Isolated 8-ch. DI and 8-ch. Open Collector DO Module
I-87057W	16-ch. Open Collector Isolated Digital Output Module
I-87057PW	16-ch. Open Collector Isolated Digital Output Module
I-87058W	8-ch. 80~250 V _{AC} Isolated Digital Input Module
I-87059W	8-ch. Differential 10-80 V _{AC} Isolated Digital Input Module
I-87061W	16-ch. Relay Output Module (RoHS)
I-87063W	4-ch. Differential Isolated Digital Input and 4-ch. Relay Output Module 5 A (NO) / 3 A(NC) @ 5 ~ 24 V _{DC} ; 5 A(NO) / 3 A(NC) @ 0 ~ 250 V _{AC}
I-87064W	8-ch. Relay Output Module, 5 A (47~63 Hz) @ 0~ 250 V _{AC} ; 5 A @ 0~ 30 V _{DC}
I-87065W	8-ch. AC SSR Output Module, AC: 1.0 A _{rms} @ 24 ~ 265 V _{rms}
I-87066W	8-ch. DC SSR Output Module , DC: 1.0 A _{rms} @ 3 ~ 30 V _{DC}
I-87068W	4-ch. Form-A Relay Output and 4-ch. Form-C Relay Output Module ; Form-A: 8 A @ 250 V _{AC} ; 8 A @ 28 V _{DC} ; Form-C: 5 A (NO) / 3 A (NC) @ 277 V _{AC} ; 5 A(NO) / 3 A(NC) @ 30 V _{AC}
I-87069W	8-ch. PhotoMOS Relay Output Module, Max. AC/DC: 0.13 A @ 350 V
I-87K /	

I-87082W	2-ch. Counter/Frequency Module, Isolated or Non-isolated Inputs
I-87K PWMS	
I-87088W	8-ch. PWM outputs, software support 1 Hz~100 kHz, (non-continuous), duty: 0.1 ~ 99.9%
I-87K GPS	
I-87211W	Time-Synchronization and GPS module for getting UTC/local time and local Longitude/Latitude

RS-485 I/O	
I-7000 DCON Protocol	www.icpdas.com.tw > > > I/O / > RS-485 Remote I/O Modules > I-7000 Modules
M-7000 Modbus RTU and DCON Protocol	www.icpdas.com.tw > > > I/O / > RS-485 Remote I/O Modules > M-7000 Modules
tM-7000 DCON, Modbus RTU, Modbus ASCII Protocol	www.icpdas.com.tw > > > I/O / > RS-485 Remote I/O Modules > tM Series Module
RS-485 I/O	
RU-87P1/2/4/8	www.icpdas.com.tw > > > I/O / > Remote I/O Expansion Unit > RS-485 Bus
I-87K1/4/5/8/9	www.icpdas.com.tw > > > I/O / > Remote I/O Expansion Unit > RS-485 Bus

Ethernet I/O	
ET-7000 Web based	www.icpdas.com.tw > > > I/O / > Ethernet I/O > ET-7000
PET-7000 PoE Web based	www.icpdas.com.tw > > > I/O / > Ethernet I/O > PET-7000
tPET/tET-7000 Modbus TCP based (PoE)	www.icpdas.com.tw > > > I/O / > Ethernet I/O > PETL-7000 & tPET/tET
Ethernet I/O	
I-8KE4/8-MTCP Modbus/TCP based	www.icpdas.com.tw > > > I/O / > Ethernet I/O > I-8KE4/8-MTCP

ISaGRAF PAC

ISaGRAF

1. www.icpdas.com

2. ISaGRAF

3.

4.

: VP-25W7 / VP-23W7

PAC :

		VP -23W7	VP -25W7
		Windows CE 5.0	
.Net Compact Framework		2.0	
		FTP server, Web server (supports VB script, JAVA script), Embedded SQL server	
SDK		eVC Visual Studio.Net 2005/2008 DLL	
ISaGRAF	ISaGRAF Ver.3	IEC 61131 -3	
		LD, ST, FBD, SFC, IL, FC;	Soft-GRAF HMI: XP -8xx7-CE6, WP -8xx7, VP -2xW7 WP -5xx7 PAC
		1 MB	
		: 3 ~ 15 ms : 15 ~ 50 ms ()	
ISaGRAF		: MS eVC++ 4.0 or VS .NET 2005/2008 (VB.NET, C# .NET)	
HMI)	(Web PC	Internet Explorer	Modem
	Web HMI	3	(high/middle/low)
CPU			
	(CPU)	PXA270, 520 MHz	
SDRAM		128 MB	
Flash		96 MB	
Flash		microSD 2 GB microSD (32 GB microSDHC)	
	SRAM	512 KB; 5 ()	
EEPROM		16 KB	
	(RTC)	/	
64-bit			
		(0.8)	
	(Rotary Switch)	(0 ~ 9)	

	VP -23W7	VP -25W7
Ethernet	RJ-45 x 1, 10/100 Base-TX (Auto -negotiating, LED indicators)	
USB 1.1 (host)	1	
COM 0	I-87K	
COM 1	-	
COM 2	RS-485 (Data+, Data -) self-tuner ; 2500 VDC	
COM 3	RS-232 (RxD, TxD, CTS, RTS, DSR, DTR, CD, RI, GND);	
MMI ()		
LCD	3.5 TFT (: 320 x 240)	5.7 TFT (: 640 x 480)
	-	
	24	6
Audio		
LED	3 LED (PWR, RUN, LAN1, L1, L2, L3; L1 ~ L3)	
I/O		
	3	
	:	I-8K I-87K
(W x L x H)	182 mm x 158 mm x 125 mm	
	(Panel Mounting)	
	: IP65	
	-20 ~ +70°C	
	-30 ~ +80°C	
	10 ~ 90% RH ()	
	+10 ~ +30 V DC	
	1 kV	
	12.5 W	
	7.2 W	

VP-2xW7 ISaGRAF :

	VP -23W7	VP -25W7
()		
(Net ID)	1 ~ 255,	
Modbus TCP/IP Master	100	Modbus TCP/I P Slave (FAQ -113)

	VP -23W7	VP -25W7
Modbus RTU/ASCII Master	10 : COM2, 3	COM5 ~ 14 (*) (Modbus Slave)
Modbus RTU Slave	5 : COM2/3, COM5 ~ 8 (*) (OPC Server)	ISaGRAF, PC/ /
Modbus TCP/IP Slave	LAN1 I-8135W ISaGRAF PC/HMI).	Ethernet 32 (PC/HMI.
Web HMI	IE	
		COM2, 3 COM5 ~ COM14 (*)
I-7000 I/O I-87K RS-485	COM2 ~ 3 I/O I-87K I/O 255 I-7000/87K I/O	I-7000 I/O I-87Kn + RU -87Pn + I-87K I/O
M-7000 I/O Modbus	10 RS-485 : COM2, 3, 5 ~ 14 (*) (I-7510 Repeater)	32 M-7000
Modbus TCP/IP I/O	ICP DAS Ethernet I/O : I-8KE4-MTCP Ethernet IP	I-8KE8-MTCP. LAN1 (LAN1 Ethernet IP) (FAQ-042)
FRnet I/O	3 I-8172W (0 ~ 2), FR-2053, FR-2057, FR-32R, FR-32P. (FAQ -048). DI 256 DO	FRnet I/O I-8172W 256
Email	Ethernet	Email.
Ebus	ICP DAS ISaGRAF	(LAN1)
SMS:	COM3 COM5 (*) GSM Modem	GSM Modem: GTM -201-RS232 (850/900/1800/1900 GSM/GPRS Modem)
MMICON/LCD	COM3 COM5 1 (*) LCD 1 4 x 4	ICP DAS MMICON. 1 240 x 64
UDP Server UDP Client :	LAN1 2 Ethernet (I-8135W) PC/HMI InduSoft	UDP Server UDP / RXTX Driver.
TCP Client :	LAN1 2 Ethernet (I-8135W) PC/HMI InduSoft	TCP Client / TCP server RXTX Driver
GPRS/SMS	I-8212W (2G/3G) "FTP Client" (FAQ -151) (FAQ -143)	/ GPRS email "TCP Client" / "UDP Server" / "UDP Client"

		VP -23W7	VP -25W7
SQL Client		SQL Client	Microsoft SQL Server (2000 SP3, 2005, 2008)
	()	I-8135W (Redundant System) PAC LAN1 2 Ethernet PC/HMI/SCADA Active IP RU -87P8	2 Ethernet 2 Active IP, 1 PC/ HMI/ SCADA PAC 2 I/O, RU -87P4 I/O (FAQ -093)
CAN/CANopen		COM3 COM5 ~ COM14 (*) CAN CANopen 10 RS-232 10 I-7530. (FAQ -086)	I-7530 (RS-232 CAN) (sensor). PAC
CANopen Master		I-8123W CANopen Master	CANopen Slave (FAQ -145)
HART		0 ~ 2 I-87H17W	HART
FTP Client		FTP Client, PAC	FTP Server. (FAQ -151)
Soft-GRAF HMI		Soft-GRAF HMI. PAC , PAC	Soft-GRAF Studio HMI (FAQ -146)
I/O ()		ISaGRAF PAC I/O I/O ()	
PWM	PWM	I-7088, I-8088W, I-87088W: 8-ch. PWM , 1 Hz ~ 100 KHz (), : 0.1 ~ 99.9%	
	PWM (DO)	8 250 Hz. Off=2, On=2 ms. : Off: 2 ~ 32766 ms, On: 2 ~ 32766 ms, : I-8037W, 8041W, 8041AW, 8042W, 8050W, 8054W, 8055W, 8056W, 8057W, 8060W, 8063W, 8064W, 8068W, 8069W. (Relay DO Relay,)	
Encoder,	(Parallel) DI	8 : 32-bit. 250 Hz. ON OFF > 2 ms. : I-8040W, 8040PW, 8042W, 8046W, 8048W, 8050W, 8051W, 8052W, 8053W, 8053PW, 8054W, 8055W, 8058W, 8063W.	
	(Serial) DI	100 Hz. : 0 ~ 65535 (16bit). : I-87040W, 87046W, 87051W, 87052W, 87053W, 87053W-A5, 87054W, 87055W, 87058W, 87059W, 87063W.	
	DI	I-7K/I-87K DI 100 Hz. : 0 ~ 65535 .	
		I-87082W: 100 kHz, 32-bit; I-8084W: 250 kHz, 32-bit	
	Encoder	I-8093W: 3 Encoder , Quadrant 1 MHz , Pulse/Direction CW/CCW 4 MHz . (FAQ -112) I-8084W: 250 kHz 4-ch Encoder, puls e/direction Up/Down A/B phase (Quad. mode), Encoder Z -index. (FAQ -100)	

		VP -23W7	VP -25W7
		I-87082W: 2-ch, 1 Hz ~ 100 kHz; I-87088W: 8-ch, 0.1 Hz ~ 500 kHz; I-8084W: 8-ch, 1 Hz ~ 250 kHz;	
	(Motion)	1 I-8091W (2), 2 I-8091W (4),	1 I-8091W X-Y
	Ethernet	VP-2xW7 / VP-2xW6 Ethernet , I-8135W Ethernet .	0 ~ 2
* : COM5 ~ COM14 VP-2xW7 0~2 COM . * ISaGRAF FAQ: http://www.icpdas.com/faq/isagraf_c.htm * NS -205/NS-208 .			

1.2 ELogger HMI

eLogger

HMI

www.icpdas.com > FAQ > Software > ISaGRAF >

[FAQ-115](#)

- 離線模擬程式
- 線上除錯 / 控制 / 監看
- 六種開放式軟邏輯程式語言(LD, ST, ...)

ISaGRAF
 應用程式開發軟體

- 免費 HMI 應用工具
- HMI
- 易學 & 易用

eLogger
 HMI人機介面開發工具



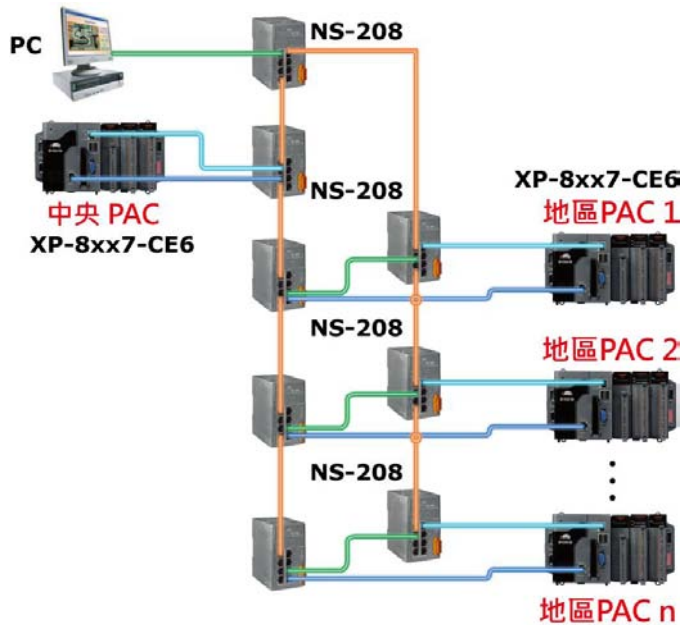
1.3

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RS-485

XP-8xx7-CE6 WP-8xx7 VP-2xW7



1.4

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RS-485 I/O

VP-25W7/23W7

I-8135W

Ethernet

VP-25W7/23W7

RS-485 I/O.

PC/HMI

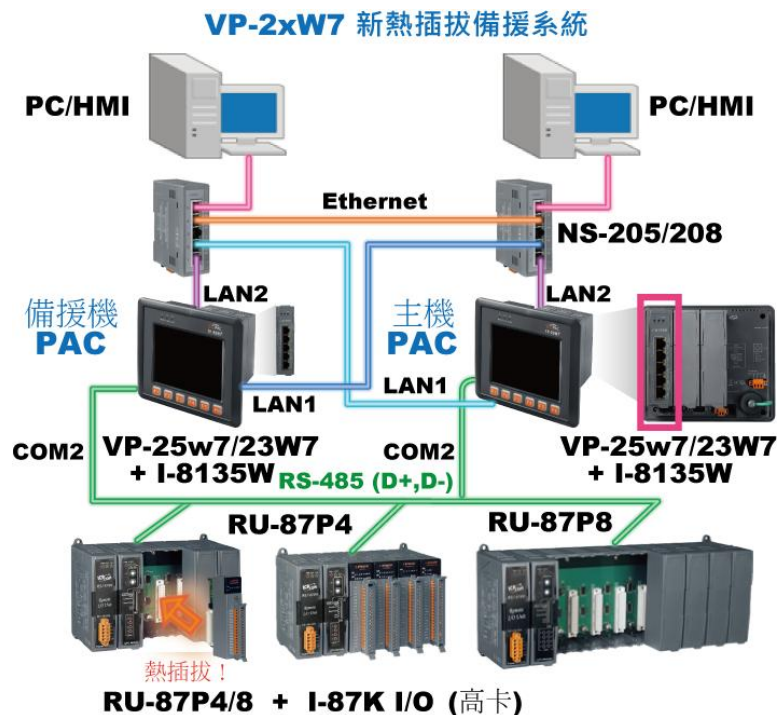
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Active IP

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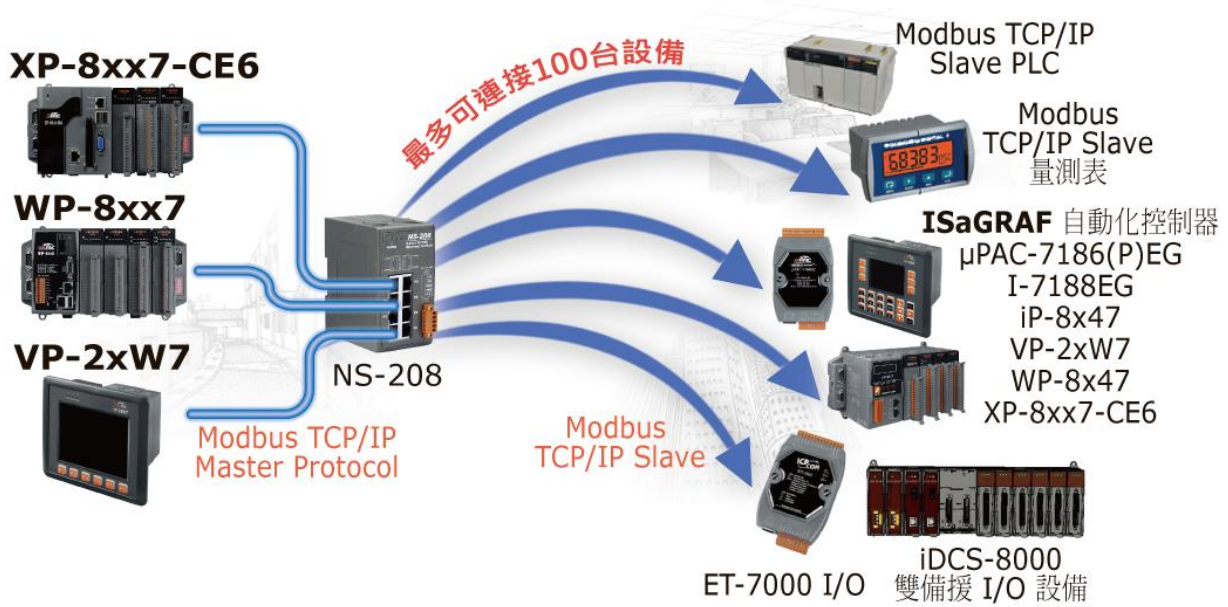
1.5 Modbus Master : TCP/IP

VP-25W7/23W7 WP-8xx7 100 Modbus TCP/IP
 slave

Modbus TCP/IP Slave

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Modbus TCP/IP Master 應用



1.6 Modbus Master: RTU, ASCII, RS-232/485/422

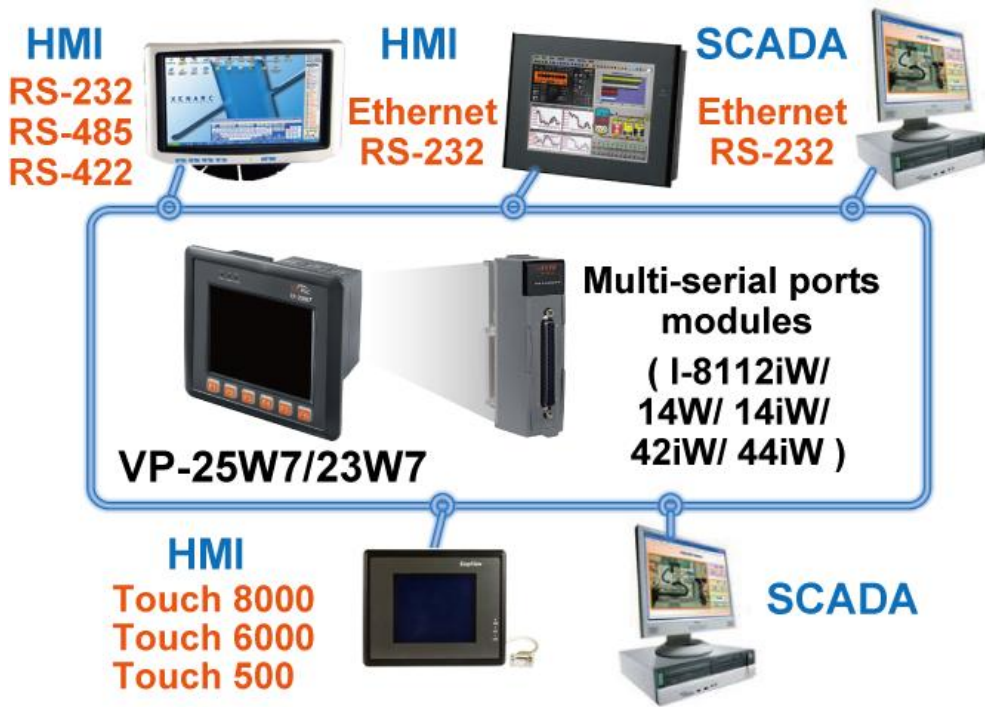
10 : COM2~COM3 COM5~COM14 (I-8112iW/ 8114W/
 8114iW/ 8142iW/ 8144iW Slot0 ~ 2)
 Modbus PLC M-7000 I/O Modbus
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▼ VP-25W7/23W7 ▼ Modbus Device ▼ Modbus PLC



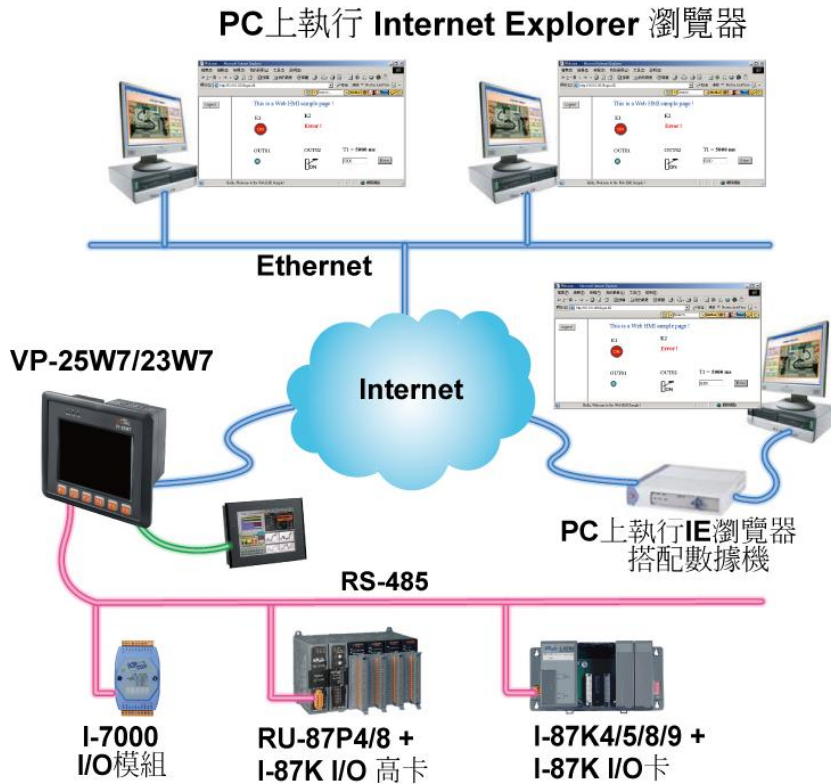
1.7 Modbus RTU/TCP Slave

- Modbus RTU (RS-232/485/422): 5
- Modbus TCP/IP: 32



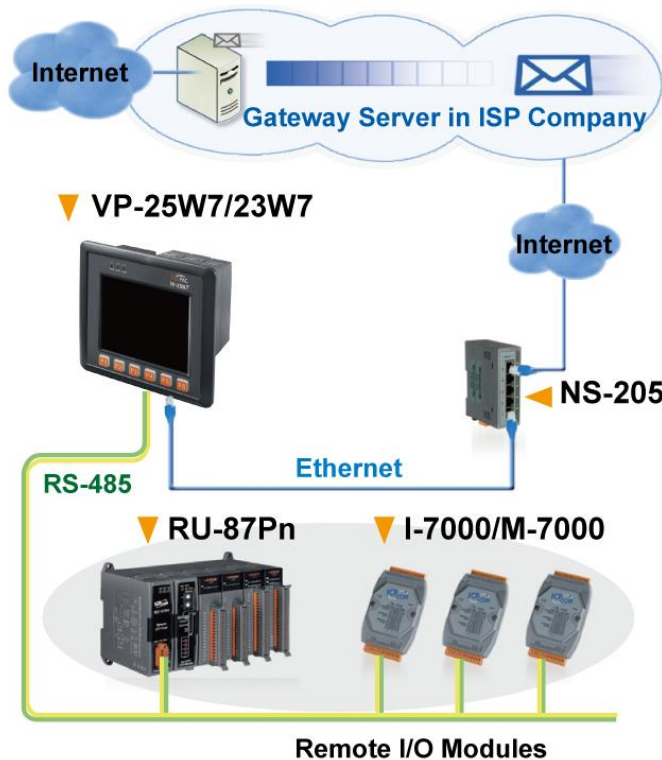
1.8 TCP/IP Server UDP Client/Server



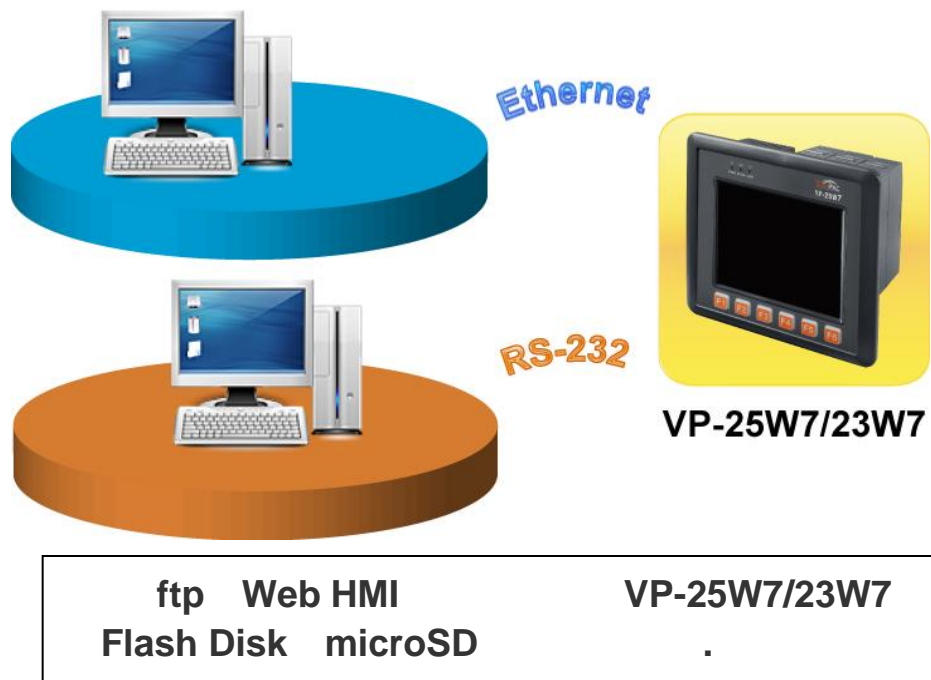


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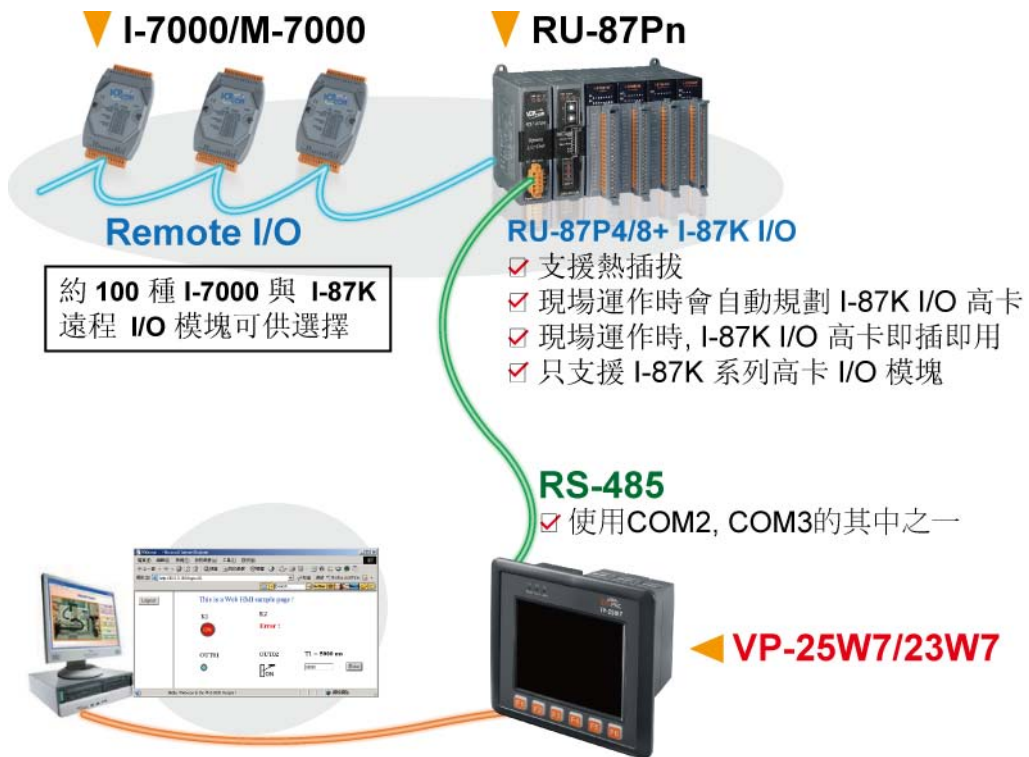
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1.11

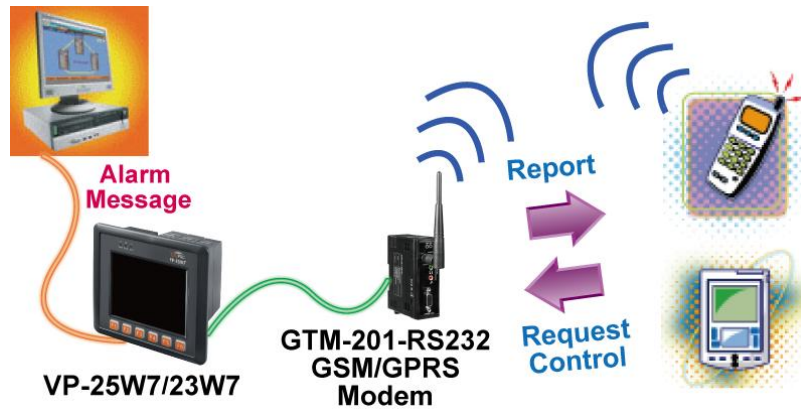


1.12 I/O



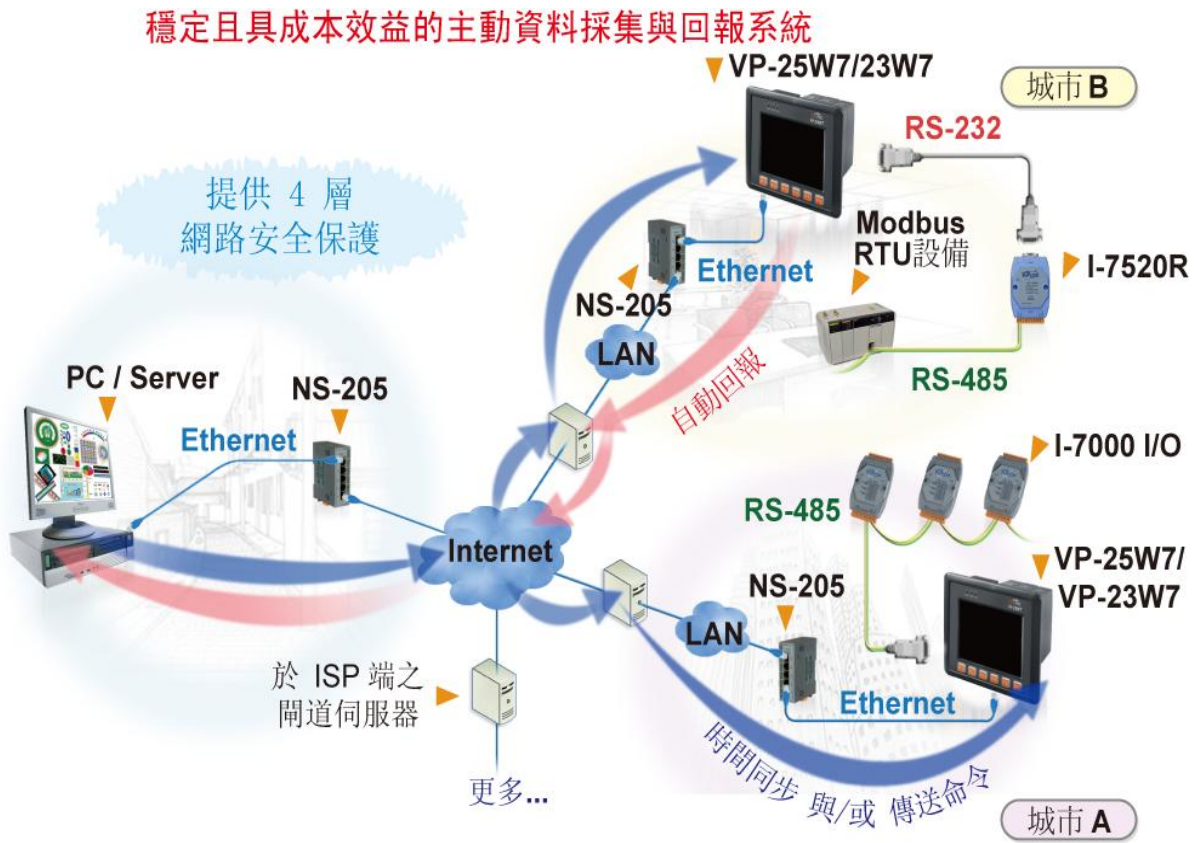
1.13 SMS:

(: , ...) Text
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1.14

VP-25W7/23W7 Server UDP IP PC / Server , PC /
 : ViewPAC Internet IP
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1.15

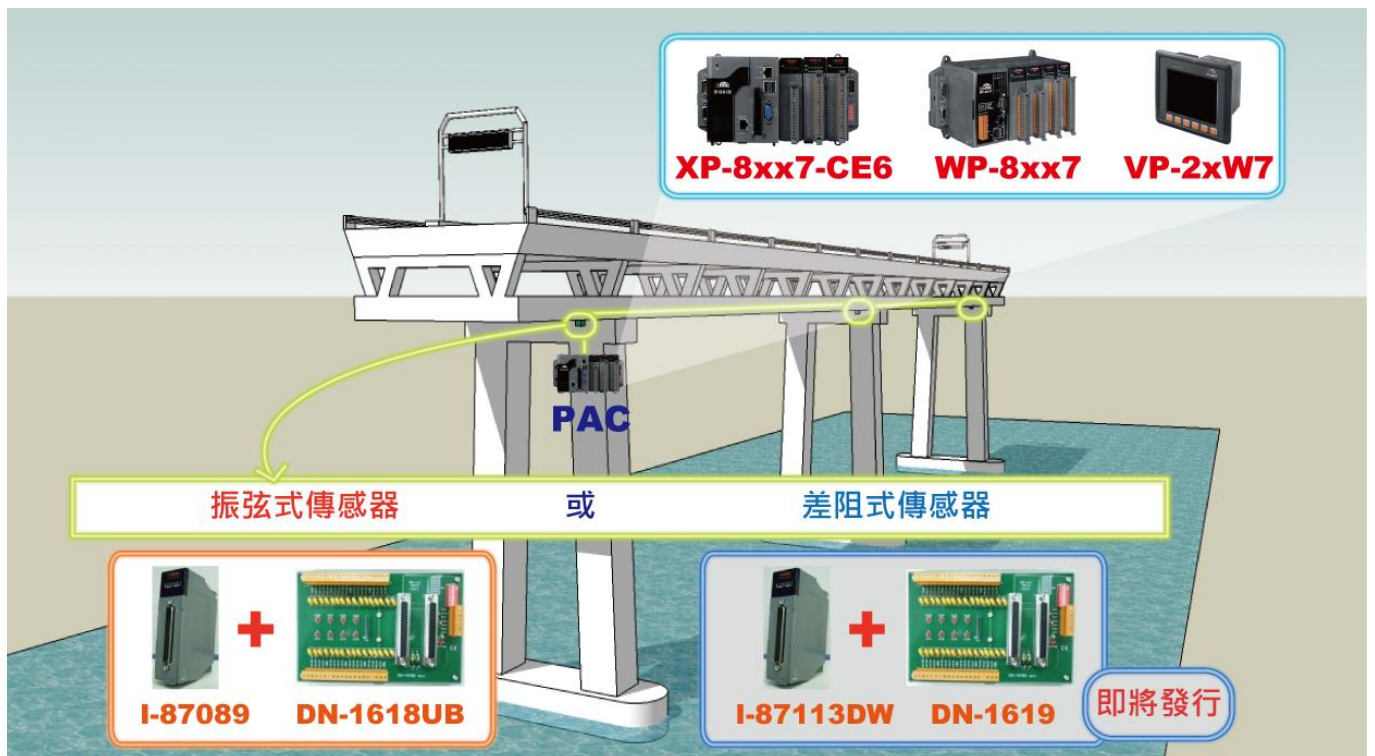
- ' 1 **I-8091W** 2 : X-Y , 2
- ' 2 **I-8091W** 4 : X-Y + 2 , 4
- ' Encoder :
I-8084W: 4-axis,
I-8090W: 3-axis

Z-index



1.16

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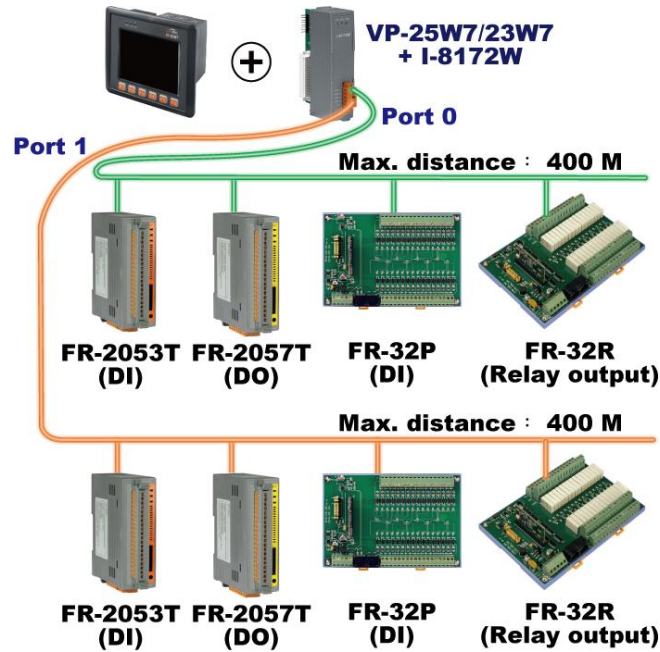


1.17 FRnet I/O

FRnet I/O : I/O , 3 ms/scan
 (PLC , : ISaGRAF PLC 9
 ms , 9 ms, 3 ms.)

: FRnet I/O AI AO

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1.18 CAN/CANopen

VP-25W7/23W7 10 I-7530 (RS-232 CAN)

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