

GW-7662 (Modbus RTU 主站)

如何與Modbus 從站設備通訊?

以SIMATIC TIA portal為例

- 測試前準備
- Example 1:從 PLC 讀寫 DO 狀態
- Example 2:從 PLC 讀 DI 狀態
- Example 3:從 PLC 讀寫 AO 狀態
- Example 4:從 PLC 讀 AI 狀態

- ✓ 檢查 GW-7662 與 Modbus 設備間的通訊線路.

[如何檢查通訊線路?](#)

- ✓ 與 PLC 建立PROFINET連線 (LED => AP:ON, BOOT:OFF, ERR:OFF).

[如何用SIMATIC TIA portal設定GW-7662組態](#)

- ✓ 下載 PFN_Tool 工具軟體

[PFN_Tool](#)

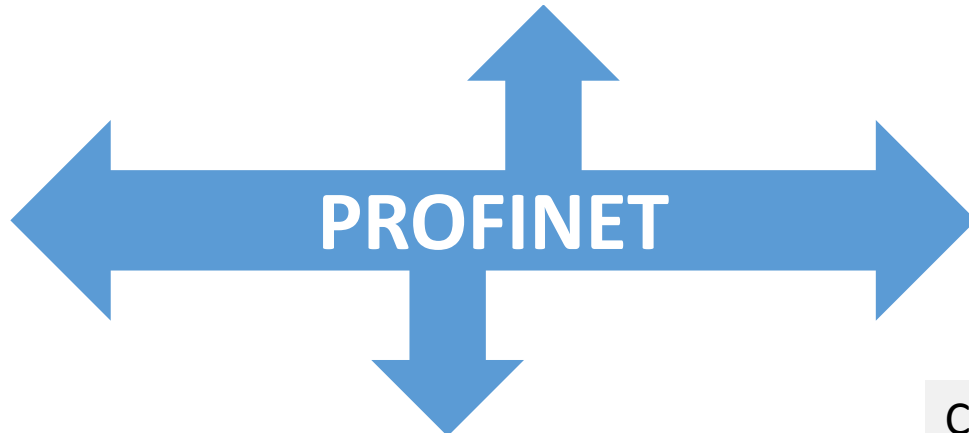
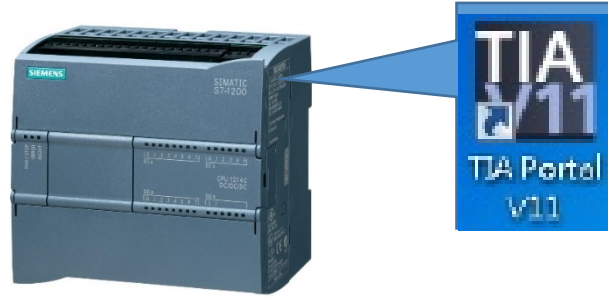


從 PLC 讀寫 16 通道 DO



SIMATIC S7-1200

PROFINET IO Controller
(主站)



GW-7662



Comport Setting:

115200, n, 8, 1

Modbus RTU

DO 模組 (RTU 從站)

- Modbus ID: 2
- 資料位址: 00001~00016
- 資料長度: 2



PROFINET IO device
(從站)

Modbus RTU 主站

從PLC 讀寫16通道DO



PFN_Tool (Version 1.30)

Network Devices : IP: 192.168.77.88 MAC: B8-6B-23-14-E5-76 (Intel(R) Ethernet Connection)

1 搜尋模組

Type	Name	IP	Mask	Gateway
GW-7662				
SIMATIC-PC				
S7-PC				
SIMATIC-PC				

2 雙擊模組

Device Basic Configuration

Device Information

Device Type : GW-7662
Device Name : gw-7662
IP Address : 0.0.0.0
Subnet Mask : 0.0.0.0
Gateway : 0.0.0.0
Mac Address : 12:34:56:78:9A:BC

Device Name Configure

Device Name : gw-7662

Network Configure

IP Address : 192.168.0.111
Subnet Mask : 255.255.255.0
Gateway : 192.168.0.254

Advanced

3 按「Advanced Settings」鈕

Device Advanced Configuration

Device Information

Device Type : GW-7662
Firmware Version : V1.0

Options

Load File Save File Download Settings Upload Settings

Modbus Settings Modbus Test Diagnostic Msg. Communication Log Information

Parameters

Modbus Format : RTU Byte Order : Little Endian(Intel) Polling Interval (ms) : 500
Modbus Type : Master I/O Safe Mode : Last Value Query Timeout (ms) : 500
Baudrate : 115200
Line Control : n, 8, 1 Modbus Device ID (dec) : 1 (1~247)

Request Command

Function Code : FC1 Read multiple coils status (0xxxx) for DO Add
Modbus ID (dec) : 1 (1~247) PROFINET Info.
Start Address (dec) : 0 (0~65535) Total Input (Byte) : 8 Modify
Count (dec) : 1 (1~1024 Bits) Total Output (Byte) : 8 Delete
 Change Word Order (AABB CCDD -> CCDD AABB) System used: 8 Bytes

ID	FC	Start Addr.	Count	Word order	PFN Input Addr.(Byte)	PFN Output Addr.(Byte)
----	----	-------------	-------	------------	-----------------------	------------------------

Suggested Module : RSW:0 Input:32Byte Output:32Byte

從 PLC 讀寫 16 通道 DO



Device Advanced Configuration

Device Information
Device Type : GW-7662
Firmware Version : V1.0

Options
Load File Save File Download Settings **Upload Settings**

Modbus Settings Modbus Test Diagnostic Msg. Communication Log Information

Parameters

Modbus Format : RTU Byte Order : Little Endian(Intel) Polling Interval (ms) : 500
Modbus Type : Master I/O Safe Mode : Last Value Query Timeout (ms) : 500
Baudrate : 115200
Line Control : n, 8, 1 Modbus Device ID (dec) : 1 (1~247)

Request Command

Function Code : FC1 Read multiple coils status (0xxxx) for DO Add
Modbus ID (dec) : 2 (1~247) PROFINET Info.
Start Address (dec) : 0 (0~65535) Total Input (Byte) : 10 Modify
Count (dec) : 16 (1~1024 Bits) Total Output (Byte) : 10 Delete
 Change Word Order (AABB CCDD -> CCDD AABB) System used: 8 Bytes

	ID	FC	Start Addr.	Count	Word order	PFN Input Addr.(Byte)	PFN Output Addr.(Byte)
1	2	15 (WDO)	0	16	No	N/A	8~9
▶ 2	2	1 (RDO)	0	16	No	8~9	N/A

Suggested Module : RSW:0 Input:32Byte Output:32Byte

1. Modbus 通訊組態設定

2. 添加 Modbus 命令

3. 儲存設定

I address與Q address的前8個bytes供GW-7663內部使用(1~8)
I address與Q address的第9個bytes開始為Modbus資料(9~32)

Device overview							
...	Module	Rack	Slot	I address	Q address	Type	Order no.
	▼ GW-7662	0	0			GW-7662 2-Port De...	GW-7662
	▶ Internal	0	0 X1			GW-7662	
	RSW:0 Input:32Byte Output:32Byte_1	0	1	1...32	1...32	RSW:0 Input:32Byte...	

	i	Name	Address	Display format
1			%QB9	Hex
2			%QB10	Hex
3			%IB9	Hex
4			%IB10	Hex
5			<Add new>	

QB9 => 用來寫入 DO 1~8
QB10 => 用來寫入 DO 9~16

IB9 => 用來讀取 DO 1~8
IB10 => 用來讀取 DO 9~16



初始 DO 值

Mbsslav1 ID = 2

00001 = 0	00009 = 0
00002 = 0	00010 = 0
00003 = 0	00011 = 0
00004 = 0	00012 = 0
00005 = 0	00013 = 0
00006 = 0	00014 = 0
00007 = 0	00015 = 0
00008 = 0	00016 = 0

0x00 0x00

PLC 寫入 0x55 至 DO 1~8
PLC 寫入 0xAA 至 DO 9~16

	N...	Address	Display format	Monitor value	Modify value
		%QB9	Hex	16#55	16#55
2		%QB10	Hex	16#AA	16#AA
3		<Add new>			

Mbsslav1 ID = 2

00001 = 1	00009 = 0
00002 = 0	00010 = 1
00003 = 1	00011 = 0
00004 = 0	00012 = 1
00005 = 1	00013 = 0
00006 = 0	00014 = 1
00007 = 1	00015 = 0
00008 = 0	00016 = 1

0x55 0xAA

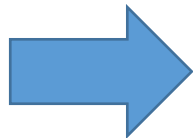


PLC 讀取 0x55 從 DO 1~8
PLC 讀取 0xAA 從 DO 9~16

Mbslav1
ID = 2

00001 = 1	00009 = 0
00002 = 0	00010 = 1
00003 = 1	00011 = 0
00004 = 0	00012 = 1
00005 = 1	00013 = 0
00006 = 0	00014 = 1
00007 = 1	00015 = 0
00008 = 0	00016 = 1

0x00 0x00



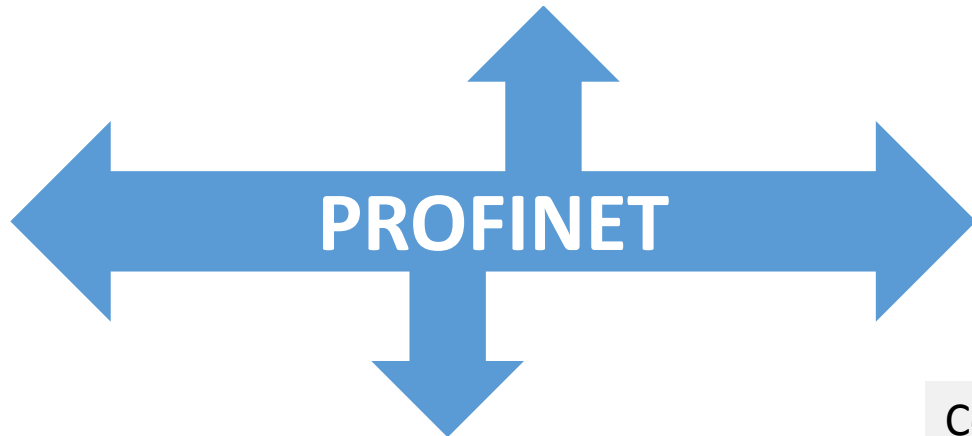
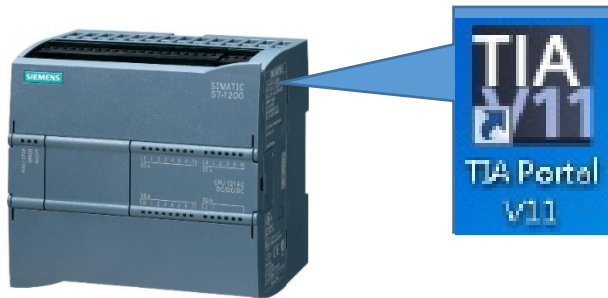
	i	N...	Address	Display format	Monitor value	Modify value
1			%QB9	Hex	16#55	16#55
2			%QB10	Hex	16#AA	16#AA
3			%IB9	Hex	16#55	
4			%IB10	Hex	16#AA	
5			<Add new>			

從 PLC 讀 14 通道 DI



SIMATIC S7-1200

PROFINET IO Controller
(主站)



GW-7662



Comport Setting:

115200, n, 8, 1

Modbus RTU

DI 模組 (RTU 從站)

- Modbus ID: 3
- 資料位址: 10001~10014
- 資料長度: 2



PROFINET IO device
(從站)

Modbus RTU 主站



PFN_Tool (Version 1.30)

Network Devices : IP: 192.168.77.88 MAC: B8-6B-23-14-E5-76 (Intel(R) Ethernet Connection)

1 搜尋模組 Search Start

Type	Name	IP	Mask	Gateway
GW-7662				
SIMATIC-PC				
S7-PC				
SIMATIC-PC				

2 雙擊模組

Device Basic Configuration

Device Information

Device Type : GW-7662
 Device Name : gw-7662
 IP Address : 0.0.0.0
 Subnet Mask : 0.0.0.0
 Gateway : 0.0.0.0
 Mac Address : 12:34:56:78:9A:BC

Device Name Configure

Device Name : gw-7662

Network Configure

IP Address : 192.168.0.111
 Subnet Mask : 255.255.255.0
 Gateway : 192.168.0.254

Advanced

Device Advanced Configuration

Device Information
 Device Type : GW-7662
 Firmware Version : V1.0

Options
 Load File Save File Download Settings Upload Settings

Modbus Settings Modbus Test Diagnostic Msg. Communication Log Information

Parameters

Modbus Format : RTU Byte Order : Little Endian(Intel) Polling Interval (ms) : 500
 Modbus Type : Master I/O Safe Mode : Last Value Query Timeout (ms) : 500
 Baudrate : 115200
 Line Control : n, 8, 1 Modbus Device ID (dec) : 1 (1~247)

Request Command

Function Code : FC1 Read multiple coils status (0xxxx) for DO Add
 Modbus ID (dec) : 1 (1~247) PROFINET Info.
 Start Address (dec) : 0 (0~65535) Total Input (Byte) : 8 Modify
 Count (dec) : 1 (1~1024 Bits) Total Output (Byte) : 8 Delete
 Change Word Order (AABB CCDD -> CCDD AABB) System used: 8 Bytes

ID	FC	Start Addr.	Count	Word order	PFN Input Addr.(Byte)	PFN Output Addr.(Byte)

Suggested Module : RSW:0 Input:32Byte Output:32Byte

3 按「Advanced Settings」鈕



Device Advanced Configuration

Device Information
 Device Type : GW-7662
 Firmware Version : V1.0

Options
 Load File Save File Download Settings Upload Settings

Modbus Settings Modbus Test Diagnostic Msg. Communication Log Information

Parameters

Modbus Format : RTU Byte Order : Little Endian(Intel) Polling Interval (ms) : 500
 Modbus Type : Master I/O Safe Mode : Last Value Query Timeout (ms) : 500
 Baudrate : 115200
 Line Control : n, 8, 1 Modbus Device ID (dec) : 1 (1~247)

Request Command

Function Code : FC2 Read multiple input discretes (1xxxx) for DI Add
 Modbus ID (dec) : 3 (1~247) PROFINET Info.
 Start Address (dec) : 0 (0~65535) Total Input (Byte) : 10 Modify
 Count (dec) : 14 (1~1024 Bits) Total Output (Byte) : 8 Delete
 Change Word Order (AABB CCDD -> CCDD AABB) System used: 8 Bytes

	ID	FC	Start Addr.	Count	Word order	PFN Input Addr.(Byte)	PFN Output Addr.(Byte)
▶ 1	3	2 (RDI)	0	14	No	8~9	N/A

Suggested Module : RSW:0 Input:32Byte Output:32Byte

1. Modbus 通訊組態設定

2. 添加 Modbus 命令

3. 儲存設定



I address與Q address的前8個bytes供GW-7663內部使用(1~8)

I address與Q address的第9個bytes開始為Modbus資料(9~32)

Device overview							
...	Module	Rack	Slot	I address	Q address	Type	Order no.
	▼ GW-7662	0	0			GW-7662 2-Port De...	GW-7662
	▶ Internal	0	0 X1			GW-7662	
	RSW:0 Input:32Byte Output:32Byte_1	0	1	1...32	1...32	RSW:0 Input:32Byte...	

i	N...	Address	Display format	Monitor value
1		%IB9	Hex	16#00
2		%IB10	Hex	16#00
3		%I9.0	Bool	FALSE
4		%I9.1	Bool	FALSE
5		%I9.2	Bool	FALSE
6		%I9.3	Bool	FALSE
7		%I9.4	Bool	FALSE
8		%I9.5	Bool	FALSE
9		%I9.6	Bool	FALSE
10		%I9.7	Bool	FALSE
11		%I10.0	Bool	FALSE
12		%I10.1	Bool	FALSE
13		%I10.2	Bool	FALSE
14		%I10.3	Bool	FALSE
15		%I10.4	Bool	FALSE
16		%I10.5	Bool	FALSE

IB9 => 用來讀取 DI 1~8

IB10 => 用來讀取 DI 9~14

I9.0~I9.7 => 用來讀取 DI 1~8

I10.0~I10.5 => 用來讀取 DI 9~14



PLC 讀取 0x00 從 DI 1~8
PLC 讀取 0x00 從 DI 9~14

初始 DI 值

Mbslav1
ID = 3

10001 = 0	10009 = 0
10002 = 0	10010 = 0
10003 = 0	10011 = 0
10004 = 0	10012 = 0
10005 = 0	10013 = 0
10006 = 0	10014 = 0
10007 = 0	
10008 = 0	

0x00 0x00

	i	N...	Address	Display format	Monitor value	M
1			%IB9	Hex	16#00	
2			%IB10	Hex	16#00	
3			%I9.0	Bool	<input type="checkbox"/> FALSE	
4			%I9.1	Bool	<input type="checkbox"/> FALSE	
5			%I9.2	Bool	<input type="checkbox"/> FALSE	
6			%I9.3	Bool	<input type="checkbox"/> FALSE	
7			%I9.4	Bool	<input type="checkbox"/> FALSE	
8			%I9.5	Bool	<input type="checkbox"/> FALSE	
9			%I9.6	Bool	<input type="checkbox"/> FALSE	
10			%I9.7	Bool	<input type="checkbox"/> FALSE	
11			%I10.0	Bool	<input type="checkbox"/> FALSE	
12			%I10.1	Bool	<input type="checkbox"/> FALSE	
13			%I10.2	Bool	<input type="checkbox"/> FALSE	
14			%I10.3	Bool	<input type="checkbox"/> FALSE	
15			%I10.4	Bool	<input type="checkbox"/> FALSE	
16			%I10.5	Bool	<input type="checkbox"/> FALSE	



PLC 讀取 0xAB 從 DI 1~8
PLC 讀取 0x2A 從 DI 9~14

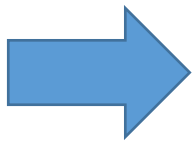
改變 DI 值

Mbslav1

ID = 3

10001 = 1	10009 = 0
10002 = 1	10010 = 1
10003 = 0	10011 = 0
10004 = 1	10012 = 1
10005 = 0	10013 = 0
10006 = 1	10014 = 1
10007 = 0	
10008 = 1	

0xAB 0x2A



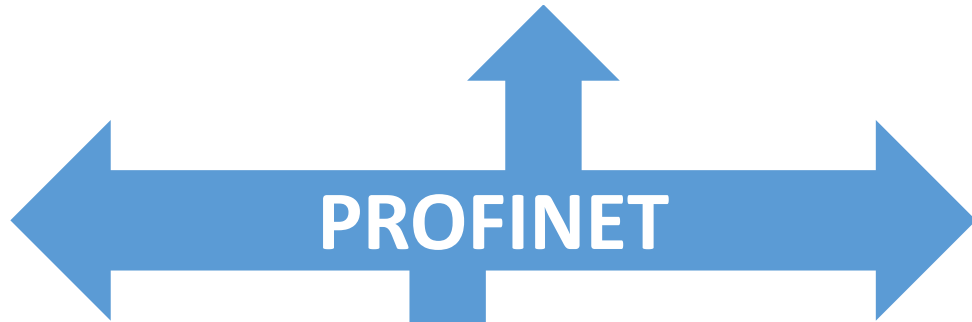
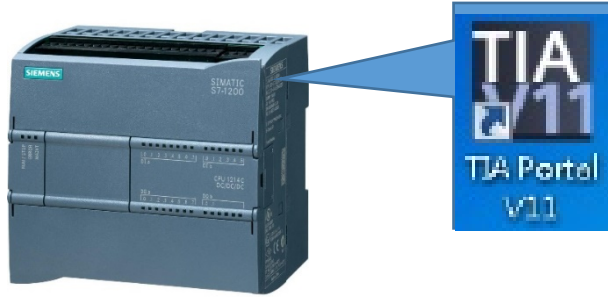
	i	N...	Address	Display format	Monitor value	M
1			%B9	Hex	16#AB	
2			%B10	Hex	16#2A	
3			%I9.0	Bool	<input checked="" type="checkbox"/> TRUE	
4			%I9.1	Bool	<input checked="" type="checkbox"/> TRUE	
5			%I9.2	Bool	<input type="checkbox"/> FALSE	
6			%I9.3	Bool	<input checked="" type="checkbox"/> TRUE	
7			%I9.4	Bool	<input type="checkbox"/> FALSE	
8			%I9.5	Bool	<input checked="" type="checkbox"/> TRUE	
9			%I9.6	Bool	<input type="checkbox"/> FALSE	
10			%I9.7	Bool	<input checked="" type="checkbox"/> TRUE	
11			%I10.0	Bool	<input type="checkbox"/> FALSE	
12			%I10.1	Bool	<input checked="" type="checkbox"/> TRUE	
13			%I10.2	Bool	<input type="checkbox"/> FALSE	
14			%I10.3	Bool	<input checked="" type="checkbox"/> TRUE	
15			%I10.4	Bool	<input type="checkbox"/> FALSE	
16			%I10.5	Bool	<input checked="" type="checkbox"/> TRUE	

從 PLC 讀寫 3 通道 AO



SIMATIC S7-1200

PROFINET IO Controller
(主站)



PROFINET

GW-7662



Comport Setting:

115200, n, 8, 1

Modbus RTU

AO 模組 (RTU 從站)

- Modbus ID: 4
- 資料位址: 40001~40003
- 資料長度: 3



PROFINET IO device
(從站)

Modbus RTU 主站



PFN_Tool (Version 1.30)

Network Devices : IP: 192.168.77.88 MAC: B8-6B-23-14-E5-76 (Intel(R) Ethernet Connection)

1 搜尋模組

Type	Name	IP	Mask	Gateway
GW-7662				
SIMATIC-PC				
S7-PC				
SIMATIC-PC				

2 雙擊模組

Device Basic Configuration

Device Information

Device Type : GW-7662
 Device Name : gw-7662
 IP Address : 0.0.0.0
 Subnet Mask : 0.0.0.0
 Gateway : 0.0.0.0
 Mac Address : 12:34:56:78:9A:BC

Device Name Configure

Device Name : gw-7662

Network Configure

IP Address : 192.168.0.111
 Subnet Mask : 255.255.255.0
 Gateway : 192.168.0.254

Advanced

Device Advanced Configuration

Device Information
 Device Type : GW-7662
 Firmware Version : V1.0

Options
 Load File Save File Download Settings Upload Settings

Modbus Settings Modbus Test Diagnostic Msg. Communication Log Information

Parameters

Modbus Format : RTU Byte Order : Little Endian(Intel) Polling Interval (ms) : 500
 Modbus Type : Master I/O Safe Mode : Last Value Query Timeout (ms) : 500
 Baudrate : 115200
 Line Control : n, 8, 1 Modbus Device ID (dec) : 1 (1~247)

Request Command

Function Code : FC1 Read multiple coils status (0xxxx) for DO Add
 Modbus ID (dec) : 1 (1~247) PROFINET Info.
 Start Address (dec) : 0 (0~65535) Total Input (Byte) : 8 Modify
 Count (dec) : 1 (1~1024 Bits) Total Output (Byte) : 8 Delete
 Change Word Order (AABB CCDD -> CCDD AABB) System used: 8 Bytes

ID	FC	Start Addr.	Count	Word order	PFN Input Addr.(Byte)	PFN Output Addr.(Byte)

Suggested Module : RSW:0 Input:32Byte Output:32Byte

3 按「Advanced Settings」鈕



Device Advanced Configuration

Device Information
Device Type : GW-7662
Firmware Version : V1.0

Options
Load File Save File Download Settings **Upload Settings**

Modbus Settings Modbus Test Diagnostic Msg. Communication Log Information

Parameters

Modbus Format : RTU Byte Order : Little Endian(Intel) Polling Interval (ms) : 500
Modbus Type : Master I/O Safe Mode : Last Value Query Timeout (ms) : 500
Baudrate : 115200
Line Control : n, 8, 1 Modbus Device ID (dec) : 1 (1~247)

Request Command

Function Code : FC3 Read multiple registers (4xxxx) for AO Add
Modbus ID (dec) : 4 (1~247) PROFINET Info. Total Input (Byte) : 14 Modify
Start Address (dec) : 0 (0~65535) Total Output (Byte) : 14 Delete
Count (dec) : 3 (1~64 Words) System used: 8 Bytes
 Change Word Order (AABB CCDD -> CCDD AABB)

	ID	FC	Start Addr.	Count	Word order	PFN Input Addr.(Byte)	PFN Output Addr.(Byte)
1	4	16 (WAO)	0	3	No	N/A	8~13
▶ 2	4	3 (RAO)	0	3	No	8~13	N/A

Suggested Module : RSW:0 Input:32Byte Output:32Byte

1. Modbus 通訊組態設定

2. 添加 Modbus 命令

3. 儲存設定



I address與Q address的前8個bytes供GW-7663內部使用(1~8)
I address與Q address的第9個bytes開始為Modbus資料(9~32)

Device overview							
...	Module	Rack	Slot	I address	Q address	Type	Order no.
	▼ GW-7662	0	0			GW-7662 2-Port De...	GW-7662
	▶ Internal	0	0 X1			GW-7662	
	RSW:0 Input:32Byte Output:32Byte_1	0	1	1...32	1...32	RSW:0 Input:32Byte...	

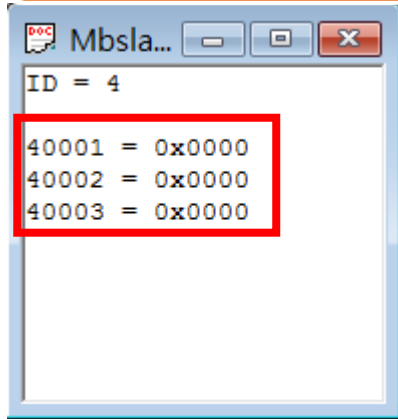
i	...	Address	Display format
1	"...	%QW9	Hex
2		%QW11	Hex
3		%QW13	Hex
4		%IW9	Hex
5		%IW11	Hex
6		%IW13	Hex

QW9 => 用來寫入 AO 1
QW11 => 用來寫入 AO 2
QW13 => 用來寫入 AO 3

IW9 => 用來讀取 AO 1
IW11 => 用來讀取 AO 2
IW13 => 用來讀取 AO 3

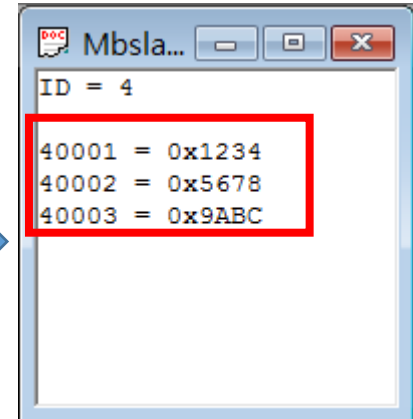


初始 AO 值

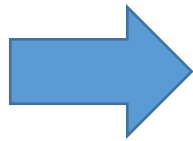
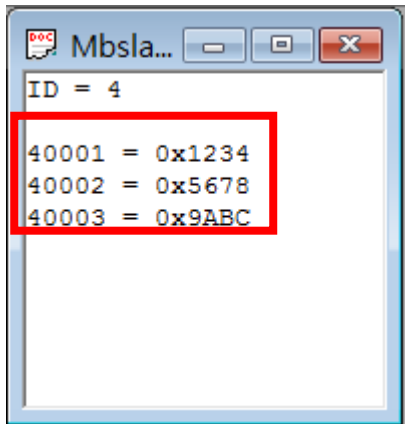


PLC 寫入 0x1234 to AO 1
PLC 寫入 0x5678 to AO 2
PLC 寫入 0x9ABC to AO 3

	i	...	Address	Display format	Monitor value	Modify value
1		"...	%QW9	Hex	16#1234	16#1234
2			%QW11	Hex	16#5678	16#5678
3			%QW13	Hex	16#9ABC	16#9ABC



PLC 讀取 0x1234 從 AO 1
PLC 讀取 0x5678 從 AO 2
PLC 讀取 0x9ABC 從 AO 3



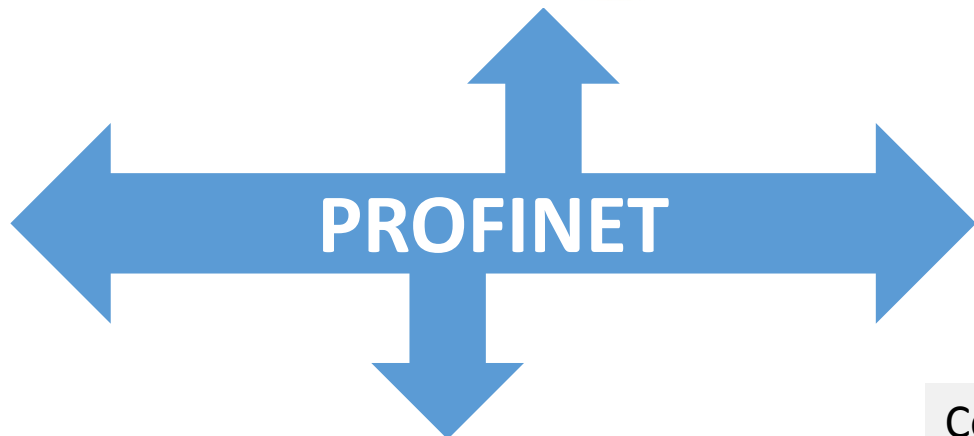
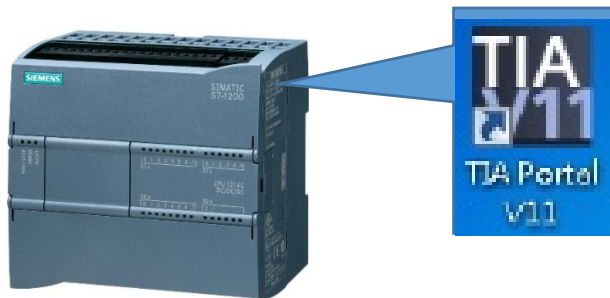
	i	...	Address	Display format	Monitor value	Modify value
1		"...	%QW9	Hex	16#1234	16#1234
2			%QW11	Hex	16#5678	16#5678
3			%QW13	Hex	16#9ABC	16#9ABC
4			%IW9	Hex	16#1234	
5			%IW11	Hex	16#5678	
6			%IW13	Hex	16#9ABC	

從 PLC 讀 4 通道 AI



SIMATIC S7-1200

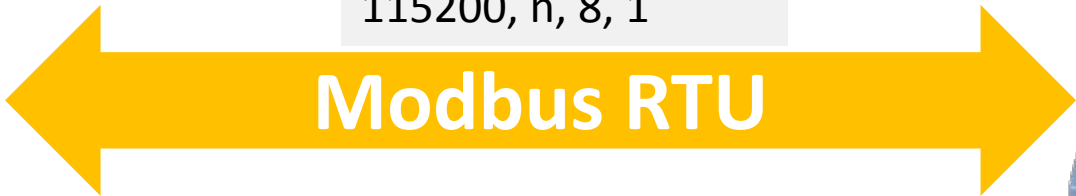
PROFINET IO Controller
(主站)



GW-7662

Comport Setting:

115200, n, 8, 1



AI 模組 (RTU 從站)

- Modbus ID: 5
- 資料位址: 30001~30004
- 資料長度: 4



PROFINET IO device (從站) Modbus RTU 主站



PFN_Tool (Version 1.30)

Network Devices : IP: 192.168.77.88 MAC: B8-6B-23-14-E5-76 (Intel(R) Ethernet Connection)

1 搜尋模組

Type	Name	IP	Mask	Gateway
GW-7662				
SIMATIC-PC				
S7-PC				
SIMATIC-PC				

2 雙擊模組

Device Basic Configuration

Device Information

Device Type : GW-7662
 Device Name : gw-7662
 IP Address : 0.0.0.0
 Subnet Mask : 0.0.0.0
 Gateway : 0.0.0.0
 Mac Address : 12:34:56:78:9A:BC

Device Name Configure

Device Name : gw-7662

Network Configure

IP Address : 192.168.0.111
 Subnet Mask : 255.255.255.0
 Gateway : 192.168.0.254

Advanced

Device Advanced Configuration

Device Information
 Device Type : GW-7662
 Firmware Version : V1.0

Options
 Load File Save File Download Settings Upload Settings

Modbus Settings Modbus Test Diagnostic Msg. Communication Log Information

Parameters

Modbus Format : RTU Byte Order : Little Endian(Intel) Polling Interval (ms) : 500
 Modbus Type : Master I/O Safe Mode : Last Value Query Timeout (ms) : 500
 Baudrate : 115200
 Line Control : n, 8, 1 Modbus Device ID (dec) : 1 (1~247)

Request Command

Function Code : FC1 Read multiple coils status (0xxxx) for DO Add
 Modbus ID (dec) : 1 (1~247) PROFINET Info.
 Start Address (dec) : 0 (0~65535) Total Input (Byte) : 8 Modify
 Count (dec) : 1 (1~1024 Bits) Total Output (Byte) : 8 Delete
 Change Word Order (AABB CCDD -> CCDD AABB) System used: 8 Bytes

ID	FC	Start Addr.	Count	Word order	PFN Input Addr.(Byte)	PFN Output Addr.(Byte)

Suggested Module : RSW:0 Input:32Byte Output:32Byte

3 按「Advanced Settings」鈕



Device Advanced Configuration

Device Information
 Device Type : GW-7662
 Firmware Version : V1.0

Options
 Load File Save File Download Settings **Upload Settings**

Modbus Settings Modbus Test Diagnostic Msg. Communication Log Information

Parameters

Modbus Format : RTU Byte Order : Little Endian(Intel) Polling Interval (ms) : 500
 Modbus Type : Master I/O Safe Mode : Last Value Query Timeout (ms) : 500
 Baudrate : 115200
 Line Control : n, 8, 1 Modbus Device ID (dec) : 1 (1~247)

Request Command

Function Code : FC4 Read multiple input registers (3xxxx) for AI Add
 Modbus ID (dec) : 5 (1~247) PROFINET Info.
 Start Address (dec) : 0 (0~65535) Total Input (Byte) : 16 Modify
 Count (dec) : 4 (1~64 Words) Total Output (Byte) : 8 Delete
 Change Word Order (AABB CCDD -> CCDD AABB) System used: 8 Bytes

	ID	FC	Start Addr.	Count	Word order	PFN Input Addr.(Byte)	PFN Output Addr.(Byte)
▶ 1	5	4 (RAI)	0	4	No	8~15	N/A

Suggested Module : RSW:0 Input:32Byte Output:32Byte

1. Modbus 通訊組態設定

2. 添加 Modbus 命令

3. 儲存設定



I address與Q address的前8個bytes供GW-7663內部使用(1~8)
I address與Q address的第9個bytes開始為Modbus資料(9~32)

Device overview							
...	Module	Rack	Slot	I address	Q address	Type	Order no.
	▼ GW-7662	0	0			GW-7662 2-Port De...	GW-7662
	▶ Internal	0	0 X1			GW-7662	
	RSW:0 Input:32Byte Output:32Byte_1	0	1	1...32	1...32	RSW:0 Input:32Byte...	

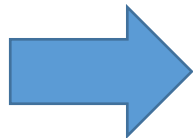
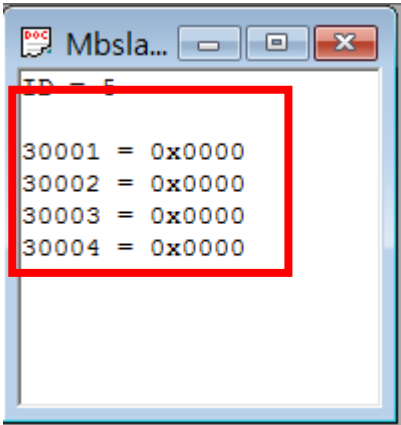
i	...	Address	Display format	Monitor va
1		%IW9	Hex	16#0000
2		%IW11	Hex	16#0000
3		%IW13	Hex	16#0000
4		%IW15	Hex	16#0000

IW9 => 用來讀取 AI 1
IW11 => 用來讀取 AI 2
IW13 => 用來讀取 AI 3
IW15 => 用來讀取 AI 4



PLC 讀取 0x0000 從 AI 1
PLC 讀取 0x0000 從 AI 2
PLC 讀取 0x0000 從 AI 3
PLC 讀取 0x0000 從 AI 4

初始 AI 值



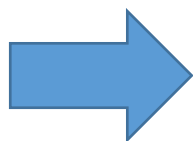
	i	...	Address	Display format	Monitor value
1			%IW9	Hex	16#0000
2			%IW11	Hex	16#0000
3			%IW13	Hex	16#0000
4			%IW15	Hex	16#0000



PLC 讀取 0x1234 從 AI 0
PLC 讀取 0x5678 從 AI 1
PLC 讀取 0x9ABC 從 AI 2
PLC 讀取 0xDEF0 從 AI 3

改變 AI 值

30001	=	0x1234
30002	=	0x5678
30003	=	0x9ABC
30004	=	0xDEF0



	i	...	Address	Display format	Monitor value
1			%IW9	Hex	16#1234
2			%IW11	Hex	16#5678
3			%IW13	Hex	16#9ABC
4			%IW15	Hex	16#DEF0