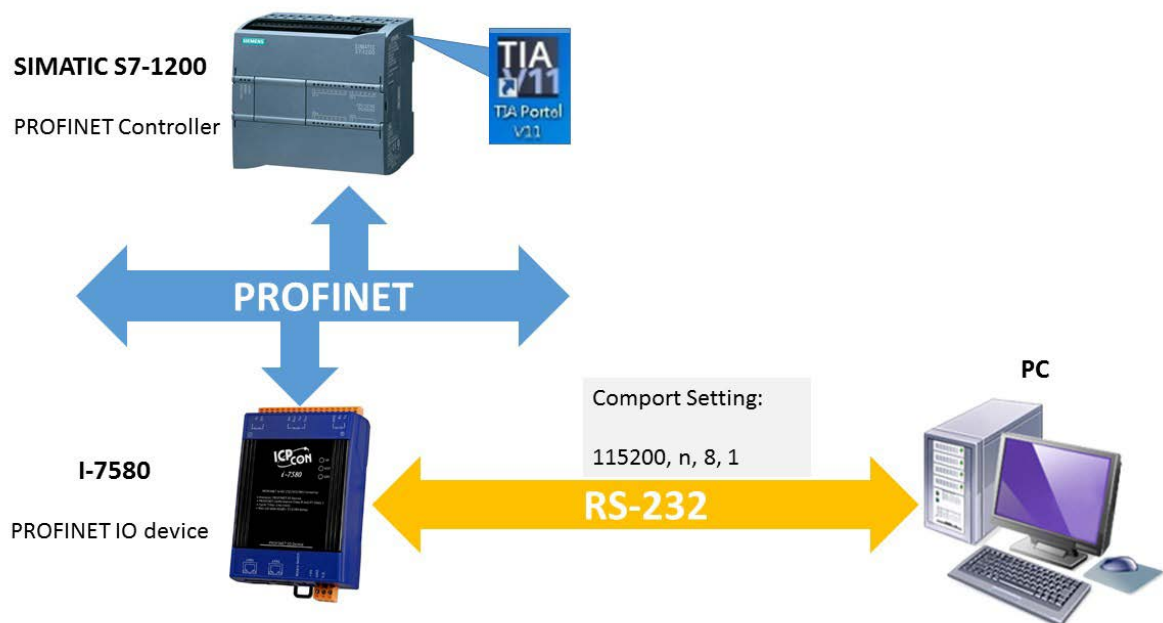


如何用 SIMATIC TIA portal 透過 I-7580 收送串列資料?

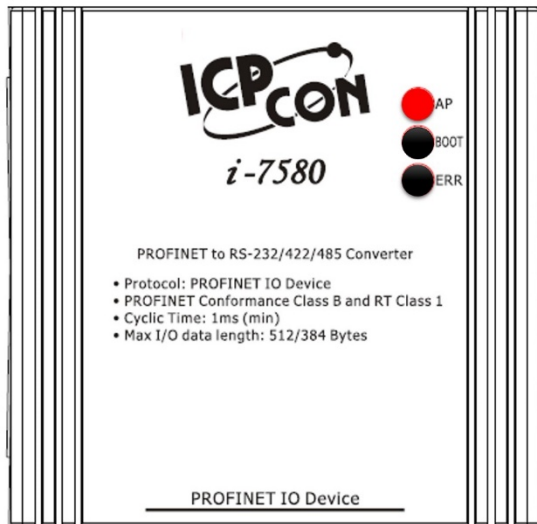
1. 硬體配置



2. 收送資料前請先確認下列條件

A. AP 指示燈恆亮, BOOT 指示燈與 ERR 指示燈恆滅.

這表示 I-7580 已與 PLC 建立連線，可以開始收送資料



B. 確認I-7580 的COM埠設定與RS-232 工具軟體設定相同 (ex:

Send232, 使用者可從 [Download Send232](#) 下載Send232).

Device overview

Module	Rack	Slot	I address	Q address	Type	Order no.
I-7580	0	0			I-7580 2-Port Device	I-7580
Internal	0	0 X1			I-7580	
RSW:0 Input:32Byte Output:32Byte_1	0	1	1...32	1...32	RSW:0 Input:32Byte...	

RSW:0 Input:32Byte Output:32Byte_1

Properties

General

Module parameters

General parameters

Baud rate: 115200

Parity: None

Data bit: 8 data bit

Stop bit: 1 stop bit

End char of input data: None

Input fixed length data: Disable

Unit of timeout value: 1 ms

Diagnosis of time out: None

3. 串列通訊 – 接收資料

於 Send232 程式中，送出” sendtoi7580” 字串，可於 PROFINET 輸入資料區接收到” sendtoi7580” 字串

輸入資料區位址: 1~32

The image shows the Send232 V. 2.0.1 COM1 interface in three stages:

- Step 1:** Configuration of COM status. The COM port is set to COM1 and the baud rate to 115200. The line control is set to N,8,1. The send string with options are set to CR_LF. A red box highlights the COM status section, and a red arrow points to the 'Open' button. A red text box below says "設定 COM 埠參數後按「Open」".
- Step 2:** Sending the string. The string "sendtoi7580" is entered in the 'Send string with' field. A red box highlights the 'Send' button. A red text box below says "輸入字串後按「Send」".
- Step 3:** Data reception monitoring. The 'Monitor value' table shows the received data. A red box highlights the 'rcv cnt' field (value 1) and the 'IN_data' fields (characters 's', 'e', 'n', 'd', 't', 'o', 'i', '7', '5', '8', '0'). Red arrows point to these fields with labels: "資料長度" (Data length), "接收資料數量" (Received data quantity), and "收到從 Send232 發送的資料" (Received data from Send232). The 'IN_data' fields are also highlighted with a red box.

i	Name	Address	Display format	Monitor value
1	"IState"	%B1	DEC_unsigned	0
2	"error state"	%B2	DEC_unsigned	0
3	"rcv len"	%W3	DEC_unsigned	13
4	"rcv cnt"	%W5	DEC_unsigned	1
5	"out_cnt"	%W7	DEC_unsigned	0
6	"IN_data_(0)"	%B9	Character	's'
7	"IN_data_(1)"	%B10	Character	'e'
8	"IN_data_(2)"	%B11	Character	'n'
9	"IN_data_(3)"	%B12	Character	'd'
10	"IN_data_(4)"	%B13	Character	't'
11	"IN_data_(5)"	%B14	Character	'o'
12	"IN_data_(6)"	%B15	Character	'i'
13	"IN_data_(7)"	%B16	Character	'7'
14	"IN_data_(8)"	%B17	Character	'5'
15	"IN_data_(9)"	%B18	Character	'8'
16	"IN_data_(10)"	%B19	Character	'0'
17	"IN_data_(11)"	%B20	Hex	16#0D
18	"IN_data_(12)"	%B21	Hex	16#0A

4. 串列通訊 – 發送資料

在 PROFINET 輸出資料區，於 byte 4 填入欲輸出之字串長度 8，於 byte 9~13 填入輸出資料” sendtoPC”，最後將 byte 1 之 data 由 0 到 1 觸發資料傳送指令，可於 Send232 程式中收到” sendtoPC” 字串。

輸出資料區位址: 1~32

The image shows two parts of a configuration process. The top part is a screenshot of a PLC variable declaration table. The bottom part is a screenshot of the Send232 software interface.

	RSW:0 Input 32Byte Output...	0	1	1...32	1...32	RSW:0 Input 32Byte...
1	"output cmd"	%QB1	DEC_unsigned	1	1	
2	"Control bit"	%QB2	Hex	16#00		
3	"output len"	%QW3	DEC_unsigned	8	8	
4	"fix len"	%QW5	DEC_unsigned	0		
5	"interval time"	%QB7	DEC_unsigned	0		
6	"timeout value"	%QB8	DEC_unsigned	0		
7	"OUT_data_(0)"	%QB9	Character	's'	's'	
8	"OUT_data_(1)"	%QB10	Character	'e'	'e'	
9	"OUT_data_(2)"	%QB11	Character	'n'	'n'	
10	"OUT_data_(3)"	%QB12	Character	'd'	'd'	
11	"OUT_data_(4)"	%QB13	Character	't'	't'	
12	"OUT_data_(5)"	%QB14	Character	'o'	'o'	
13	"OUT_data_(6)"	%QB15	Character	'P'	'P'	
14	"OUT_data_(7)"	%QB16	Character	'C'	'C'	

觸發資料傳送指令
0x00 -> 0x01

資料長度

輸入字串" sendtoPC"

1

Send232 V. 2.0.1 COM1

COM status: COM1, 115200, N,8,1

Send string with: None, LF_CR, CR, CR_LF, LF

Auto send: Interval 500

String: sendtoPC

Receive: sendtoPC

收到從 I-7580 發送的資料

2