How to connect with GW-7553 and Utility (For SIMATIC STEP 7)



System Architecture

Step 1: Set the DIP switch to "Setting mode"



Step 2: Set the GW-7553 module

1. Add a GW-7553 module

🖳 HW Config - [SIMATIC 300 Station (Configu	ration) \$7_7553_1]					
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2 CPU313C-2 DP(1)	_ _				Profile: Standard	•
2.2 D16D016 2.4 Count 3 4 		tep 1: lick PROFI	BUS Network Step 2: Double	click GW-7553	W PROFILIOS DP Additional File Workshing DrD Gateway Gateway	d Devices Devices 'Coupler '232C Link 552 'Soupler, Release : # PROFIBUS DP S Controller ations
<				>	DP/AS-i DP/PA Link	
PROFIBUS(1): DP master system (1)	Order symbol		Diamortia addmas	Comment	ENCODER	
1 G ₩-7553	Cider number	rumweie	1022	Comment	ET 200C	
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Press F1 to get Help.					[[Chg

2. Add a System module

Image: Step 2: Did Step 2: Image: Step 2: Double click Image: Step 2: Double click Image: Step 2: Double click Image: Step 1: Step 1: Image: Step 1: Click GW-7553 icon	7553 m Shand and O W-7553 Universal module System atting O that RehyCol-1 byte O that RehyCol-2 byte O that RehyCol-3 byte O that RehyCol-5 byte O that RehyCol-6 byte O that RehyCol-7 byte O that RehyCol-10 byt O that RehyCol-10 byt O that RehyCol-10 byt
Image: Step 2: Definition Step 2: Double click System setting module PROFIBUS(1): DP matter system (1) Step 1: Click GW-7553 icon	7553 Thirderal module W1-7553 W1-7553 W1-7553 W1-7553 Output Relay/Coil-1 byte Output Relay/Coil-1 byte Output Relay/Coil-3 byte Output Relay/Coil-5 byte Output Relay/Coil-7 byte Output Relay/Coil-7 byte Output Relay/Coil-7 byte Output Relay/Coil-10 byt Output Relay/Coil-10 byt Output Relay/Coil-10 byt Output Relay/Coil-10 byt Output Relay/Coil-10 byt
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1 CPU313C-2 DP(1) 22 DP 2.2 D16DD16 2.4 Count 4	Standard GW-7553 Universal motule System setting Output RelayCoil-1 byte Output RelayCoil-2 byte Output RelayCoil-3 byte Output RelayCoil-6 byte Output RelayCoil-6 byte Output RelayCoil-6 byte Output RelayCoil-7 byte Output RelayCoil-7 byte Output RelayCoil-10 byt Output RelayCoil-10 byt Output RelayCoil-10 byt
2 ICPU31SC-2 DP(I) 22 Dif6DDi6 24 Count 3 Count 3 Step 2: Double click System setting module PROPEDUS(1): DP matter system (1) FROPEDUS(1): DP matter system (1) Click GW-7553 icon	Standard GW-7553 Universal module System asting Output Relay/Coil-1 byte Output Relay/Coil-2 byte Output Relay/Coil-3 byte Output Relay/Coil-5 byte Output Relay/Coil-5 byte Output Relay/Coil-9 byte Output Relay/Coil-9 byte Output Relay/Coil-10 byt Output Relay/Coil-10 byt Output Relay/Coil-10 byt
22 DifoDOl6 2.4 Const 3 Step 2: 4 System setting module PROHBUS(1): DP master system (1) Image: Click GW-7553 icon	 GW-7553 Universal module System setting: Output Relay/Coil-1 byte Output Relay/Coil-2 byte Output Relay/Coil-3 byte Output Relay/Coil-5 byte Output Relay/Coil-5 byte Output Relay/Coil-7 byte Output Relay/Coil-7 byte Output Relay/Coil-7 byte Output Relay/Coil-10 byte
× • • • • • • • • • • • • • • • • • • •	Output Relay/Coil12 byt Output Relay/Coil13 byt Output Relay/Coil14 byt Output Relay/Coil15 byt
(1) GW-7553	Output Relay/Coil16 byt Output Relay/Coil17 byt
Table DBID Orienter Italian Orienter	Output Relay/Coil18 byt
24D0 System setting 02	Output Relay/Coil19 byt
	Output Relay/Coll-20 by
	Output RelayColl-21 by
	Output RelayColl-22 by
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	Output Relay/Coll24 by
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	Output Relay/Coil26 byt
	Output Relay/Coil27 byt
	- Output Relay/Coil-28 byt
	-] Output Relay/Coil-29 byt
	110.
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Step 3: Set the parameters of the GW-7553

- 1. Double click GW-7553 icon
- 2. Select "Parameter Assignment"

HW Config - [SIMATIC 300 Station (Configuration)				a ×
🛄 Station Edit Insert PLC Yiew Options Window Hel	P			. a x
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1 1 2 1 2 DP 2.2 DilsDDl6 2.4 Count	PROFIBUS(I): I	DP master system (1) Step 2: Select Parameter Properties - DP slave	Eind: Standard Assignment + M FROFIBUS DP	- = = = nt ni -
4	107.5	General Parameter Assignment		
Step 1: Double click (7553 () GW-7553 Stot DF ID, Order Number / Designation 1 24DO System setting	I Address Q Address 02	Parameters Station parameters Device-appetitis justimisers Device-appetitis justimisers Device-appetitis Device of the state of the state Device of t	Value 115200 baud none 8 data bit 1 stop bit Matter Modbus RTU Retain Last Value Little Endian(Intel format) Manual 1 500 500 1	400
2 3 4 5 6 7 8 9		OK	Cancel Help	
10 11 11 12 13 14 14 14 15 14			PROFIBUS-DP slaves for SIMATIC S7, M7, and C7 (distributed rack)	<u> </u>

HW Config - [Sl	MATIC 300 Sta	tion (Configure	tion) S7_G	W-7553]					
<u>Station Edit</u> Ins	ert <u>P</u> LC <u>V</u> iew	Options <u>W</u> indov	w <u>H</u> elp						_ 6
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Check CiR Con	ıpatibility	Ctrl+Alt+F							
Print		Ctrl+P							
Print Preview									
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<u>1</u> \$7_G W-7553	SIMATIC 300 Stat	tion		•					
2 S7_GW-7552	SIMATIC 300 Stat	tion							
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4 87_1-7550%11	4A IIC 300 Station		-			~			
E <u>x</u> it		Alt+F4				>			
(1) GW-7	553								
Slot DP ID	Order Number /	Designation	I Address	Q Address	Comment	1			
1 24DO	System setting			02		<u>^</u>			
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8							M7, and	C7 (distributed rack)	
	-		-	-					
9	1				1				

Step 4: Compile and Download Objects into SIMATIC PLC



Step 5: Connect with GW-7553 and utility (You can download the latest Utility at http://ftp.icpdas.com/pub/cd/fieldbus_cd/profibus/gateway/gw-7553/utilities/)

1. Before the connection, please make sure the RUN LED of the GW-7553 is on.



2. Set the Com Port Setting of the Utility

🁋 Profibus/Modbus Gateway Utili	ty		
Communication IP setting Safe value	setting View Help		
GW-xxxx	Com Port Setting Port : Com1 💌 Data bit : 8 databit 💌	Baudrate : 115200 💌 Stop bit : 1 stopbit 💌	Parity : None 💌
	Item	Value (State)	
	 Modbus Type Modbus Format I/O Value for Stop Mode Byte Order Modbus Device ID (S) Poll interval time (M) Time out value (M) Module count 		
	Module State : 🔴		Com Port State : 🔴
Com Port isn't open !			

3. Click connect

🏘 Profibus/Modbus Gateway Uti	lity		
Communication IP setting Safe valu	e setting View Help		
Connect Disconnect Exit	Com Port Setting Port : Com1 💌 Bau Data bit : 8 databit 💌 S	udrate : 115200 💌	Parity : None 💌
	Item Image: Construct of the state of the st	Value (State)	
Com Port isn't open !	Module State : 🔴		Com Port State : 🔴

🀴 Profibus/Modbus Gateway Util	ity	
Communication IP setting Safe value	e setting View Help	
GW-7553	Com Port Setting	
Module 1	Port : Com1 Baudrate :	115200 V Parity : None V
Module 2	Data bit : 8 databit 💌 Stop bit :	1 stopbit 💌
	Item	Value (State)
	J Modbus Type	Slave
	🥬 Modbus Format	тср
	🎾 I/O Value for Stop Mode	Retain Last Value
	🎾 Byte Order	Big Endian (Motorola format)
	🌮 Output Data Mode	Manual
	🎾 Modbus Device ID (S)	1
	🎾 Poll interval time (M)	500ms
	🎾 Time out value (M)	500ms
	🥔 Module count	2
	🎾 Tcp connect num (T)(M)	1
	Module State: 🔵	Com Port State : 🔴
Module is connected	Receive file name fi	inish

4. Connection success

Step6: Click IP setting→Load from device to show IP setting dialog

1)Load from device		
Profibus/Modbus Gateway Utili	ty setting View Helt	
GW-755 GW-755 GW-755 Module 1	Data bit : 8 databit y Stop bit :	115200 V Parity : None V
	Item	Value (State)
	🎾 Modbus Type	Master
	🎾 Modbus Format	тср
	🎾 I/O Value for Stop Mode	Retain Last Value
	🥩 Byte Order	Big Endian (Motorola format)
	🧈 Output Data Mode	Manual
	🎾 Modbus Device ID (S)	1
	🎾 Poll interval time (M)	500ms
	🎾 Time out value (M)	500ms
	🎾 Module count	1
	🎾 Tcp connect num (T)(M)	1
	Module State: 🔴	Com Port State : 🔴

1. Modbus Master mode

(2)Set the IP of the Modbus TCP Slave and click "Save to Device" button

to save the settings.

IP Setting	
Local IP Setting	
IP 192 . 168 . 0	. 211
MASK: 255 . 255 . 0	. 0
GATEWAY 192 . 168 . 0	Step 1: Set IP of Modbus TCP Slave
Remote IP Setting	K
IP(1): 192 . 168 . 0 . :	212 Time out value (ms) : 1500 ReConnect time (ms) : 8000
IP(2): 192 . 168 . 0 . 1	100 Time out value (ms) : 1500 ReConnect time (ms) : 8000
IP(3): 192 . 168 . 0 . 1	100 Time out value (ms) : 1500 ReConnect time (ms) : 8000
IP(4): 192 . 168 . 0 . 1	100 Time out value (ms) : 1500 ReConnect time (ms) : 8000
IP(5): 192 . 168 . 0 . 1	100 Time out value (ms) : 1500 ReConnect time (ms) : 8000
IP(6): 192 . 168 . 0 . 1	100 Time out value (ms) : 1500 ReConnect time (ms) : 8000
IP(7): 192 . 168 . 0 . 1	100 Time out value (ms) : 1500 ReConnect time (ms) : 8000
IP(8): 192 . 168 . 0 .	100 Time out value (ms) : 1500 ReConnect time (ms) : 8000
St Sa G	ep 2: Ive the setting to W-7553

2.Modbus Slave Mode

(1) The settings of the GW-7553 must have the same domain and different IP with the PC (ex: PC's IP=192.168.0.118, MASK=255.255.0.0; GW-7553's IP=192.168.0.150, MASK=255.255.0.0).Then click save to device.



? Setting		→ 画域連線 狀態	? 🛛
Local IP Setting		一般支援	
IP 192 . 168 . 0 . 150		┌連線狀態────	
MASK: 255 . 255 . 0 . 0		🚽 💮 位址類型:	由 DHCP 指派
GATEWAY 192 . 168 . 0 . 254		工业 IP 位址:	192.168.0.118
		子網路遮罩:	255.255.0.0
Remote IP Setting		預設閘道:	192.168.0.254
IP(1): 192 . 168 . 0 . 100 Time out value (ms) :	1500 ReConnect time (ms): 8000	詳細資料①	
I P (2): 192 . 168 . 0 . 100 Time out value (ms):	1500 ReConnect time (ms) : 8000		
IP (3): 192 . 168 . 0 . 100 Time out value (ms):	1500 ReConnect time (ms) : 8000	Windows 並未偵測到這個連線的問題 用物無法法的,請the COS (1)。	,如 修復(2)
IP (4): 192 . 168 . 0 . 100 Time out value (ms):	1500 ReConnect time (ms) : 8000	未必無体理称 / 請按 [181後] 。	
IP (5): 192 . 168 . 0 . 100 Time out value (ms):	1500 ReConnect time (ms) : 8000		
IP (6): 192 . 168 . 0 . 100 Time out value (ms):	1500 ReConnect time (ms) : 8000		
IP (7); 192 . 168 . 0 . 100 Time out value (ms):	1500 ReConnect time (ms) : 8000		
I P (8): 192 . 168 . 0 . 100 Time out value (ms):	1500 ReConnect time (ms) : 8000		
	Save to File Save to Device		

Step 7: Reset the power of GW-7553 and Set the switch of the GW-7553 to normal mode.

