GW-7552 and SIMATIC STEP 7 Configurations

1. Double Click "SIMATIC Manager" icon to open "SIMATIC Manager"



2. Open "New Project Wizard"

SIMATIC Manager		
<u>File</u> PLC <u>V</u> iew Options <u>W</u> indow <u>H</u> elp		
<u>N</u> ew	Ctrl+N	
New Project' Wizard		
Open	Ctrl+O	
S7 Memory Card	•	
Memory Card <u>File</u>	•	
Delete		
Reorganize		
<u>M</u> anage		
Archive		
Retrieve		
Page Setup		
1 S7_Pro2 (Project) CA\Siemens\Step7\s7proj\S7_Pro2 2 S7_Pro1 (Project) CA\Siemens\Step7\s7proj\S7_Pro1		
Exit	Alt+F4	
	_	·
Creates a new project step-by-step with the help of a wizard.		

3. Set up Project

a. Click"Next"



b. Select CPU type then click "Next"

STEP 7 Wizard: "New Proje	ct"		X
Which CPU are you usin	g in your project?		2(4)
CP <u>U</u> : <u>C</u> PU name: MPI <u>a</u> dduess:	CPU Type CPU312C CPU312C CPU313C CPU313C-2 DP CPU313C-2 PP CPU314 CPU314C-2 DP CPU314C-2 DP CPU313C-2 DP(1) 2 • 32 KB wn DI16/DO 3 channe	Order No 6ES7 312 5BD00-0AI 6ES7 312-1AD10-0AI 6ES7 313-5BE00-0AF 6ES7 313-6CE00-0AF 6ES7 313-6BE00-0AF 6ES7 314-1AE04-0AF 6ES7 314-6CF00-0AF 6ES7 314-6CF00-0AF 0B memory; 0.1ms/100 16 integrated; 3 pulse o 1s counting and measur	B0 B0 B0 B0 B0 B0 B0 B0 B0 B0
< <u>B</u> ack <u>N</u> ext >	Finish	Cancel	Help

c. Select Blocks and Language for Selected Blocks then click "Next"

STEP 7 Wizard: "New Proje	ct"		X
🕞 Which blocks do you was	at to add?		3(4)
Bloc <u>k</u> s:	Block Name OB1 OB10 OB11 OB12 OB13	Symbolic Name Cycle Execution Time of Day Interrupt 0 Time of Day Interrupt 1 Time of Day Interrupt 2 Time of Day Interrupt 3	
Γ	E Select <u>All</u> Language for Select	ed Blocks	Help on <u>O</u> B
	C SIL	€ <u>L</u> AD	C FBD
Create with source files			Fievie <u>w</u> >>
< <u>B</u> ack <u>N</u> ext >	Finish	Cancel	Help

d. Set project name then click"Finish"

STEP 7 Wizard: "New Pro	ject"		
🟐 What do you want to c	all your project?		4(4)
Project name:	S7_Pxx3		
Existing projects:	\$7_Px01 \$7_Px02		
	Check your new paoj Click "Finish" to cre	ect in the pueview. ate the puoject with the d	lisplayed structure. Previe <u>w</u> >>
< Back Next >	Finish	Cancel	Help

4. Double click "Hardware" to open "HW Config"



5. Install GW-7552 GSD File

ftp://ftp.icpdas.com/pub/cd/fieldbus_cd/profibus/gateway/gw-7552/

a. Click "Install GSD File"



b. Select the directory of GW-7552's GSD file(IPDS0B87.gsd) and click "OK"

stall GSD Files: :\Design Knowl	edge\BUS F	orotocol\Pro	from the directory
File	Release	Version	
			Select a directory via the GSD files GW-7552 GW-7552 GW-7552網頁建 GW-7552網頁建 CGW-7552網頁建 CGW-7552網頁建 CGSD
Install	<u>\$</u>	how Log	Pin

c. Click "Install"

Install GSD Files	
Install GSD Files:	
E.\Design Knowledge\BUS Protocol\Profibus\PROFIBUS\GW-7552\GW-7552網頁連結內容	G Browse
File Release Version Languages	
IPDS0B87.GSD Default	
GW-7552	
Install Show Log Select 411 Deselect 411	
Close	Help

d. Click"OK"

all GSD Files:			from the directory
Design Knowl	edge\BUS P	rotocol\Pro	fibus\PROFIBUS\GW-7552\GW-7552網頁連結內容\GBrowse
le DSOB87.GSD	Release	Version	Languages Default
1-7552			Installation was completed successfully.
Install	<u> </u>	how Log	Select <u>A</u> ll <u>D</u> eselect All

e. Click "Close"

I	tall GSD Files	×
	stall GSD Files:	
	\Design Knowledge\BUS Protocol\Profibus\PROFIBUS\G W-7552\G W-7552網頁連結內容\G	
	File Release Version Languages	_
	PDS0B87.GSD Default	
	·W-7552	-
	Install Show Log Select All Deselect All	
	Close Help	

f. Confirm GW-7552's GSD file is available

🖳 H.W. Config - [SIMATIC 300 Station (Configuration) S7_Pro3]	
💵 Station Edit Insert PLC View Options Window Help	_ 8 ×
D 😅 🗤 🖳 🖏 🎒 🗈 🗈 🛯 🏜 🏙 👔 📼 器 💦	
<u>^</u>	
	Find: gw-7552 M1 M
📼 (0) UR	Profile: Standard 💌
1 2 CPU313C-2 DP(1) X2 DP 2.2 D116/D016 2.4 Count 3 4 5 6 7 •	Gateway AS-I DP/DP Coupler DP/RS232C Link GW-7552 GW-7553 GW-7553 DP/DP Coupler, Release 2 Compatible PROFIBUS DP SI CiR-Object
Press F1 to get Help.	

6. Double click "Connections" to open "NetPro"

SIMATIC Manager - [S7_Pro3 C:\Program Files\Siemens\Step7\s7proj\S7_Pro3]		\mathbf{X}
🔁 File Edit Insert PLC <u>V</u> iew Options <u>W</u> indow <u>H</u> elp	- ć	×
🗋 🗁 🔡 🛲 X 🗈 🛍 🕋 🗣 🏝 🏪 🏪 🏦 🛍 🔁 < No Filter > 🗾 🍸	@	
S7 Pro3 SIMATIC 300 Station Sources Blocks S7 Program(1) Blocks S7 Program(1)		
Press F1 to get Help.		/

7. Add PROFIBUS subnet

a. Double click the block of the DP



b. Set mater station's address as '0' then click "New"

1	Properties	- PROFIBUS i	nterface	DP (R0/S2.1)			×
1	General	Parameters					
	<u>A</u> ddress:						
	Subnet:						_
1	not	networked				<u>N</u> ew	
					_	Properties	
						Delete	
		1			 	. 1	
	OK				Cance	el Help	

c. Select PROFIBUS Transmission Rate=12Mbps, Profile=DP and click"OK"

Properties - New subnet PRO	OFIBUS			×
General Network Settings				1
Highest PROFIBUS Address:	126 💌	Change	Options	
<u>T</u> ransmission Rate:	500 Kbps 1.5 Mbps 3 Mbps 6 Mbps 12 Mbps			
<u>P</u> rofile:	DP Standard User-Defined		<u>B</u> us Parameters	
OK			Cancel Hel	p

d. Click"OK"

Properties - PROFIBUS interface DP (R	0/S2.1)	×
General Parameters		
Address:		
Highest address: 126		
Transmission rate: 12 Mbps		
Subnet:		
not networked PROFIBUS(1)	12 Mhns	<u>N</u> ew
		Properties
		Delete
OK	Cau	ncel Help

8. Add GW-7552

a.Search GW-7552 module



b. Select DP module and double click GW-7552's icon then set GW-7552's address in the "Properties" dialog (this address must be the same with dip switch of the GW-7552 module and default is "1") then click "OK"

器 NetPro - [S7_G₩-7552 (Network) C:\Program Files\\s7proj\S7_G₩1]	
Network Edit Insert PLC Yiew Options Window Help	– ð ×
1	
	Find: gw-7552 nt mi
SIMATIC 300 Station	Selection of the network
	PROFIBUS DP Additional Field Devices Switchgear
	± <u></u>
Prometties - PDOFFIEITS interface GW-7552	Gateway
Tibletines TROTIDOS internete Off 1992	DP/DP Coupler
General Parameters	DP/RSZ32CLink
PROFIBUS(1)	GW-7552 2
PROFIBUS	
Transmission rate: 12 Mbps	DP/DP Coupler, Release 2
	CiR-Object
Subnet:	Closed-Loop Controller
PROFIBUS(1) 12:Mbps	Configured Stations
Properties	DP/AS-i
Delete	DP/PA Link
	ENCODER
	ET 200C
	ET 200eco
4	ET 200iS
	ET 200L
UK Cancel Hei	P ET 200M
	+ ET 200pro
	🕒 🖻 ET 2005
To display the connection table, please select a module capable of a connection (CPU, FM module, OPC server or application). To display the network address overview, please select a subpet	
Ready PC Adapter(MPI) X 448 Y 233 Ins	

c. GW-7552 add completely



9. Setup the parameter of GW-7552

a. Double click GW-7552's icon to open "HW Config"



b. Double click GW-7552's icon to open "Properties" dialog



c. Select "Device-specific parameters" folder and configure the settings (ex: baud rate, parity, data bit) and click "OK".

Properties - DP slave	
General Parameter Assignment	
Parameters	Value
🖃 🤤 Station parameters	
🔁 🔄 Device-specific parameters	
— 🗐 baud rate	115200 baud
parity	none
— 🗐 data	8 data bit
_≝ stop bit	1 stop bit
— Modbus Type	Slave
— 🗐 Modbus Format	Modbus RTU
_≝ I/O Safe Mode	Retain Last Value
- Byte Order	Big Endian(Motorola format)
- Modbus Device ID (S)	1
- Modbus Polling Interval(ms) (M)	500
Li Query timeout Value(ms)(M)	500
🕁 🧰 Hex parameter assignment	
1	
OK	Cancel Help

10.GW-7552 module configuration

a. Search for GW-7552 module

🙀 H.W. Config - [SIMATIC 300 Station (Configuration) S7_GW-7552]	
🛍 Station Edit Insert PLC Yiew Options Window Help	_ @ ×
D 🗀 🖧 🖓 🚳 🗈 🗈 🛍 🏜 📳 📼 👯 💦	1
Image: CPU313C-2 DP(0) 22 DP 2.2 D116DD016 2.4 Count 3 4 c	Find: gw-7552 Profile: Standard PROFIBUS DP Additional Field Devices Switchgear DV Gateway AS-1 DP/DP Coupler DP/RS232C_ink GW-7552 GW-7552 GW-7550 DP/DP Coupler, Release 2 Compatible PROFIBUS DP SI Compatible PROFIBUS DP
Press F1 to get Help.	

b. Open GW-7552's folder

🙀 H W Config - [SIMATIC 300 Station (Configuration) S7_G W-7552]			
🛍 Station Edit Insert PLC View Options Window Help			_ 8 ×
<u>^</u>			_
	Find:	gw-7552	mt mi
	Profile:	Simdard	<u> </u>
		G₩-7552	~
		🛛 📔 Universal modu	e
2 CPU313C-2 DP(0)		System setting	
22 DP PROFIDUS(1): DP master system (1)		📕 Output Relay/Co	oil1 byte 📃
2.4 Count		Output Relay/Co	oil2 byte
3		Output Relay/Co	oil3 byte sil 4 bute
4			oil5 byte
		Output Relay/Co	oil6 byte
		- 🚺 Output Relay/Co	oil7 byte
		🚺 Output Relay/Co	oil8 byte
		📔 Output Relay/Co	oil9 byte
		Output Relay/Co	oil10 byte
		📕 Output Relay/Co	oil11 byte
		Output Relay/Co	oil12 byte -il-12 hanta
		Output Relay/Co	pil13 byte
		Output Relay/Co	oil15 byte
		👖 Output Relay/Co	oil16 byte
Slot I Corder Number / Designation I Address Q Address Comment		🗌 🚺 Output Relay/Co	oil17 byte
		📕 Output Relay/Co	oil18 byte
2		Output Relay/Co	oil19 byte
		Uutput Relay/Co	oil20 byte
		Output Relay/Co	51121 Dyte 51122 bate
		Output Relay/Co	nil23 hyte 🔽
	<	in caparitony/or	>
8			ŧ۷
9			
	U		
rress F1 to get Help.			

c. Click GW-7552 module and double click "System setting module" and select the IO modules that you need (ex: 2AI , 2word)



11. You have completed GW-7552's configuration and you just need to download the configuration to Siemens PLC $\,\circ\,$

HW Config - [SIMA]	TIC 300 Station (Configu	ration) S7_GW- <u>7552</u>]			
D Station Edit Insert	<u>PLC V</u> iew <u>Options Wind</u>	ow <u>H</u> elp			
🗅 🗃 🔓 🖬 🖏 ,	Download Upload	Ctrl+L		_	
-	Download Module Identifig Upload Module Ide <u>n</u> tificatio	ation on to PG			Eind:
	<u>F</u> aulty Modules				Profile: Standard
	Module Information Operating Mode Clear/Reset Set Time of Day Monitor/Modify	Ctrl+D Ctrl+I			ROFIBUS DP ROFIBUS-PA ROFINET IO SIMATIC 300 SIMATIC 400 SIMATIC PC Based Control 300/400
-	Updat <u>e</u> Firmware				
PROFIBUS(1): DP ma	Save De <u>v</u> ice Name to Memo	ory Card			
	Ethernet	•			
📺 (1) GW-75	PROFIBUS	•			
a 🔊 🔊	Save Service Data				
'hand'					
٢				>	
(1) GW-7552			1		
Slot D Order 1	Number / Designation	I Address Q Address	Comment		
2 24LO Systems	egister2 word	256259			
3	<u> </u>				
4					
5					
7					PROFIBUS-DP slaves for SIMATIC S7,
8				_	M7, and C7 (distributed rack)
9				~	
Loads the current station into	the load memory of the curren	t module.			Chg