Siebert®

FAQ – configuration profinet example for series SX502

Safety precautions

Important Information



Read these operating instructions before starting the unit. They provide you with important information on the use, safety and maintenance of the units. This helps you to protect yourself and prevent damage to the unit.

Information intended to help you to avoid death, bodily harm or considerable damage to property are highlighted by the waring Triangle shown here; it is imperative that this information be properly heeded.

Safety

Intended use



components inside the units are energized with electricity during operation. For this reason, mounting and maintenance work may only be performed by professionally-trained personnel while observing the corresponding safety regulations.

The units do not have a power switch. They are operative as soon as the operating voltage is applied.

The units are intended for use in industrial environments. They may only be operated within the limit values stipulated by the technical data.

When configuring, installing, maintaining and testing the units, the safety and accident-preventation regulations relevant to use in each individual case must be comlied with.

Trouble-free, safe operation of the units requires proper transport, storage, installation, mounting and careful operation and maintenance of the units.

Mounting and Installation The attachment options for the units were conceived in such a way as to ensure safe, reliable mounting.



The user must ensure that the attechment hardware, the unit carrier and the anchoring at the unit carrier are sufficient to securely support the unit under the given surrounding conditions.

The units are to be mounted in such a way that they can be opened up while mounted. Sufficient space for the cables must be available in the unit near the cable infeed.

Sufficient space is to be kept clear around the units to ensure air circulation and to prevent the biuld-up of heat resulting from use. The relevant information must be heeded in the case of units ventilated by other means.





When the housing fasteners are opened, the front frame of the housing hinges out upward or downward (depending on the unit version) automatically.

Grounding

All devices are equipped with a metal housing. They comply with safety class I and require a protective earth connection. The connecting cable for the operating voltage must contain a protective earth wire of a sufficient cross section (DIN VDE0106 part 1, DIN VDE 0411 part 1).

Other

Read first the chapter 1 of the manual.

1. connect your new SX502 over profinet io on your plc and power supply

the best configuration to learn communicate SX502 over profinet io is to connect only one display on plc and no other functions will be on plc than the example file.





	SIMATIC STEP 7 Version 5.5	
	SIMATIC	
		SIEMENS
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2. Start Siemens Simatic Manager

3. extract the example file from the file folder

SIMATIC Manager		
Datei Zielsystem Ansicht Extras Fenster Hilfe		
	Dearchivieren - Archiv auswählen Suchen in: Downloads • + C * E + Sx502_PN_Example_01_2013 Dateiname: 0ffmen Dateinyp: PKZip 12.4-Archive (* zip) • Abbrechen	
Drücken Sie F1, um Hilfe zu erhalten.	TCP/IP(Auto) -> 3Com EtherLink XL 10/:	1.



SIMATIC Manager - [SX502_PB_Example_01	_2013 C:\Progra	mme\Siemens\Step7\S	/Proj\Sx502_10]			×
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- B SX502_PB_Example_01_2013	Objektname	Symbolischer Name	Erstellsprache	Größe im Arbeitsspei	Тур	Ve
🖻 🏢 SIMATIC 300-Station	Systemdaten	1			SDB	
🖻 📓 CPU 315-2 PN/DP	G 0B1	CYCL EXC	FUP	54	Organisationsbaustein	0.1
S7-Programm(3)	FC1	Send Data	AWL	728	Funktion	0.1
Quellen	FC2	Set Tx Data	AWL	224	Funktion	0,1
Bausteine	EFC3	SX502 Communication	AWL	338	Funktion	0.1
	DB1	SendDb1	DB	112	Datenbaustein	0.1
	DB3	Demotext 1	DB	292	Datenbaustein	0.1
	DB4	Demotext 2	DB	292	Datenbaustein	0.1
	DB5	Demotext 3 w. Variable	DB	292	Datenbaustein	0.1
	DB6	Variable for Demotext 3	DB	292	Datenbaustein	0.1
	Control	Control			Variablentabelle	0.
	SFC15	DPWB DAT	AWL		Systemfunktion	1.0
	SEC20	BLKMOV	ΔW/I		Sustemfunktion	11
Drücken Sie F1. um Hilfe zu erhalten.	<	TCP/IP(Auto) ->	3Com EtherLink XL 10/:			>

4. open the hardware configuration

Station Bearbeten Enfügen Zielsystem Ansicht, Extras Fenster Hilfe Station Bearbeten Enfügen Zielsystem Ansicht, Extras Fenster Hilfe Support Standard Support Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard Profile Standard	0 1
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X2 PW40 X2 P1 Pod 1 Y Pod 2 Y Pod 2 Y Pod 3 Y Pod 4 Y Pod 5 Y Pod 7 Y <t< td=""><td>300/400</td></t<>	300/400
X2 P1 Port 1 Image: Simatic 400 Image: Simatic 400 Image: Simatic 400 Image	300/400
BINATIC PC Based Control	300/400
IP-HORM	
DP-NORM	
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🗲 🥌 (1) ABS-PIR	
Steckolatz B Baugruppe Bestellnummer E-Adresse A-Adresse Di., K., Z.,	
0 ABS PIR ABS PIR 2043 YA	
X1 Interface 2042 V	
PT R R/45 100 MBit/s 2041 4	
P2R R.45100MBit/s 2040 v	
1 BT EIN 001 byte 2 yc	
2 RT AUS 008 bytes 5057 vc	
3	
4	
5	
6 PROFIBUS-DP-Slayes der SIMATIC	: S7, M7 und C7 🗧 🐔
7 (dezentraler Aufbau)	Chemistry and a second s
8	



In Station Bearbeten Einfüger	Zelsystem Anscht Extras Fenster Hilfe	
	Suchen:	Mt Mi
20)UR	Ethernet(1): PROFINET-IO-System (100) Profil: Standard	
1 1	Gerätenamen vergeben Image: Control 300/ Gerätename: Gerätename: Ogerätename: Gerätename: Vorhandene Geräte: Image: Control 300/ 192.168.127.11 00-30-11-08:A6-55 Anybue:S PIR Name zuweisen 192.168.127.11 00-30-11-08:A6-55 Anybue:S PIR Deserie Binken ein Binken aus Image: Sekunden]: 3 Image: Sekunden]: Imag	400
F1 R R145 100 MBR	Schließen	
1 RT EIN 001 by	te 2 vc	
2 III HI AUS 0085 4 5 6 7 7 8	PROFIBUS-DP-Slaves der SIMATIC S7, Comparison of the second seco	M7 und C7 £

5. accolate a name to the slave and close the window



6. choose a configuration from hardware catalog and set it on the plug-in position of the profinet slave

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🗩 (0) U A	1		Ethernet(1): PROF	INET-IO-System	n (100)	_ 1	Profil: Standard
1 2 X1 X2 X2P1	PS 307 2A CPU 315-2 PN/I MPI/DP PN/IO Poi 1 Poi 1		DF	I) ABS-PIF			PROFINET IO Gateway HMI I/O Schaltgeräte Sensors Weitere FELDGERÄTE General
- [m,						×	Anybus 5 MA Migration T Migration Migration T Andere Module T Ausgangsmodule T AUS 001 byte T AUS 000 bytes T AUS 004 bytes T AUS 008 bytes
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(1) /	ABS-PIR Baugruppe ABS-PIR Interface R145 100 MBit/s B145 100 MBit/s	Bestellnummer ABS-FIR	E-Adresse	A-Adresse	Di K 2043 2041 2041	× Z ¥ M M	Anglouss PIH Migration RT Andere Module RT Ausgangsmodule RT Aus 001 byte RT AUS 001 bytes RT AUS 016 bytes RT AUS 016 bytes RT AUS 016 bytes RT AUS 032 bytes RT AUS 032 bytes RT AUS 032 bytes RT AUS 032 bytes RT AUS 128 bytes RT A
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R R R	ABS-PIR Baugruppe ABS-PIR Interlace R/J5 100 MBit/s R/J5 100 MBit/s RT EIN 001 byte RT AUS 008 bytes	Bestellnummer ABS-FIR	E-Adresse	A-Adresse	Di K 2043 2042 2041 2040 2040		Angouss PIH Migration FT Andere Module RT Andere Module RT Ausgangsmodule RT AUS 001 byte RT AUS 002 bytes RT AUS 002 bytes RT AUS 006 bytes RT AUS 006 bytes RT AUS 006 bytes RT AUS 016 bytes RT AUS 026 bytes RT AUS 046 bytes RT AUS 128 bytes RT Ein Pin byte RT Ein 001 bytes RT Ein 004 bytes
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Ckplatz	ABS-PIR Baugruppe ABS-PIR ABS-PIR AdS-PIR Add AdS-ADA Add Add Add Add Add Add Add Add Add Ad	Bestellnummer ABS-FIR	E-Adresse 2 2	A-Adresse	Di K 2043 2042 2041 2040 2040 2040		Anybus 5 Pin Migration Pin Pin Pin Pin Pin Pin Pin Pi

(for example RT EIN 001 byte and RT AUS 008 bytes)

Attention!

Please remember the definition of data bytes out (in this example is 8 Bytes) If you choose another configuration (for example 16 Bytes) you must set this value in FC3 at the hardware settings but in HEX.



7. change the E/A Address of the profinet slave configuration

gemein Adressen		
Eingänge	-	
Antang: JL2	Prozessabbild:	
		J
OK		Abbrechen Hilfe
nechaften DT 4US 0	10.9 hutse (D. 16.2)	
nschaften - RT AUS 0	08 bytes - (R-/S2)	
nschaften - RTAUS 0 gemein Adressen	08 bytes - (R-/S2)	
nschaften - RT-AUS 0 gemein Adressen Ausgänge Anfang: 50 Ende: 57	08 bytes - (R-/52) Prozessabbild: 081-PA 💌	
nschaften - RTAUS 0 gemein Adressen Ausgänge Anfang: 50 Ende: 57	08 bytes - (R-/S2) Prozessabbild: 0B1-PA	
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anschaften - RT AUS 0 gemein Adressen Ausgänge Anfang: 50 Ende: 57	08 bytes - (R-/52) Prozessabbild: 081-PA	

Attention!

0K

Please remember the definition of E/A addresses.

If you choose another definition (for example E-address 4 and A-address 10) you must set this value in FC3 at the hardware settings but in HEX.

Hilfe

Abbrechen



			<u>^</u>	
	Teilnehmeradresse auswählen			nt
🚍(0) UR	Über welche Teilnehmeradresse ist das PG n	nit der Baugruppe CPU 315-2 PN/DF	verbunden?	Standard
2 1 CPU 315-2 PN/D X1 MPI/DP X2 PN-IO X2P1 Pot 1	Baugruppenträger: 0 == Steckplatz: 2 == Zielstation: C Lokal C Über Netzübergang	j zu erreichen		Ideriver FID Gateway HM I/O Network Components Schaltgeräte Sensors Weitere FELDGERÄTE
	Anschluß an Zielstation eingeben:		Ē	📄 General 😑 🥘 Anybus-S PIR
	IP-Adresse MAC-Adresse	Baugruppentyp Stationsname	Baugruppenn	🕀 🧰 Migration
	192.168.127.10 00-0E-8C-87-60-AC	CPU 315-2P SIMATIC 3	CPU 315-2 PN	P BT
		nzeigen	2	HT AUS 001 byte RT AUS 002 bytes RT AUS 004 bytes RT AUS 006 bytes RT AUS 004 bytes RT AUS 016 bytes RT AUS 024 bytes RT AUS 024 bytes RT AUS 024 bytes RT AUS 128 bytes RT AUS 128 bytes RT Ein-/Ausgangsmodule RT Ein 001 bytes RT EIN 002 bytes RT EIN 002 bytes RT EIN 004 bytes
		Abbrechen	Hilte	RT EIN 004 bytes RT EIN 008 bytes RT EIN 016 bytes

8. save and translate hardware configuration and send it to the plc.



9. open FC3 ("SX502 Communication") and scroll down until displayed "set H E R E datas of hardware configuration"

change there the values that is set in the hardware configuration

Attention! Values must be enter in HEX. In hardware configuration the values are in DEC.

OutputAddr = 32 HEX (in hardware configuration 50 DEC) InputAddr = 2 HEX (in hardware configuration 2 DEC) LenConsData = 8 HEX (in hardware configuration 8 DEC)

🐺 KOP/AWL/FUP - [FC3 -- "SX502 Communication" -- SX502_PB_Example_01_2013\SIMATIC 300-Station\CP... 🗊 Datei Bearbeiten Einfügen Zielsystem Test Ansicht Extras Fenster Hilfe a × -▶ 🗳 🐂 🗐 🎒 👗 陶 館 り ♀ (23 🏙 📼 😤 🔐 !< ≫! 🔲 🖾 👫 小 小 () 習 ∟ ゴ 汁: 2 set H E R E datas of hardware configuration 1111 190: CALL "Set_Tx_Data" // see hardware configuration for details OutputAddr :=W#16#32 // output data in IO start here InputAddr :=W#16#2 // input data in IO region start here SrcDb :=MW200 // number of DB to send // number of DB to use as scratch buffer SendDb :=W#16#1 LenConsData:=W#16#8 // number of bytes defined as consitant output RETVAL :=MW204 // temp storage for return value // ** check return value of FC2 for errors (see function description of error codes) MU // get return value of FC2 204 L // load compare value L W#16#0 ==I // return value 0x0000 ? SPBN ERR9 // branch to error handling for FC2 L199 // done - no error SPA ERR1: L MIL 202 // error handling FC1 - check return value L W#16#8000 // FCl returns "display busy" ? ==T // compare equal L S5T#5S // load "long" 5 sec delay here for demonstration SE Т 1 // set extended pulse timer 1 if compare is TRUE, clear else U // check for Tl to come up, i.e. busy timeout condition т 1 SPBN ERRS // additional error handling for FCl 0.0 // !!!! set A0.0 to signal lockup condition !!!! à. L B#16#0 DB1.DBB // !!!! HERE the communication is unlocked !!!! 0 Т SPA ERRS // additional error handling for FCl ERR8: BE // include further error handling for FCl here - skip for now ERR9: BE // include further error handling for FC2 here - skip for now L199: BE // done - no error < > 9 offline Abs < 5.2 Nw 1 Ze 100 Drücken Sie F1, um Hilfe zu erhalten. Einfg



10. also in FC3 you set the marker bytes for choose the DB that will send if you control this marker byte

	UP - [FC3 "S)	X502 Communication" SX502_PB_Example_01_2013\SIMATIC 300-Station\CP	
🕞 Datei Bearbe	eiten Einfügen Zi	ielsystem Test Ansicht Extras Fenster Hilfe	_ 8 ×
n 🚅 🐎 🗖	ALE	ᅊᇏᅇᅆᅝᇔᅝᆌᅆᆃ <i>ᅅᆝᅦᅦᄥᇞᄥᆊᆊᆊᅀᅋᇈᆂ</i> ᆂᆘᅇ	2
			^
	1111111111	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
// the foll	owing steps w:	ill need to send a text from DEx over an Mx.x //	
////// SP	nd text from I	DB3 to display //////////	
	*****************************	TTALES TREATH CONNECCENCE	
	n 0.0	Marker byte	
sv	т 2		
TT .			
u E	M 1.0		
L	0	DB no. to send	
-	M 0.0		
SPEN	L101	// no> check next input	
L	W#16#3	// load number of DB containing data to send (source DB)	
SPA	L190	// send data	
0.07555			
111111	nd taxt from 1	DB4 to display ////////////	
<i>1111111</i> Se	nd cext from 1	bba co display /////////	
L101- H	M 0.1		
L	S5T#250MS		
sv	т з		
Π	тз		
<u> </u>	M 1.1		
L	0		
=	M 0.1		
SPBN	L102	// no> check next input	
L	W#16#4	// load number of DB containing data to send (source DB)	
Т ЗРА	MW 200 L190	// store number of source DB // send data	
21			× ×
Durialuse Cia Et	t tilf a sam anla alle a	P .com	
Drucken ble F1, UM	mille zu ernalten.	i ⊯ jornine iµds < 5,2 i Einrg	15 ///

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FAQ – configuration profinet example for series SX502

SIMATIC Manager - [SX502_PB_Example_01	_2013 C:\Progra	mme\Siemens\Step7\S	/Proj\\$x502_10]			X
B Datei Bearbeiten Einfügen Zielsystem Ansicht I	Extras Fenster Hilfe				- ć	i ×
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🖃 🎒 SX502_PB_Example_01_201	Objektname	Symbolischer Name	Erstellsprache	Größe im Arbeitsspei…	Тур	Ve
🖻 🎆 SIMATIC 300-Station	💼 Systemdaten		177		SDB	
🖃 📓 CPU 315-2 PN/DP	😅 081	CYCL_EXC	FUP	54	Organisationsbaustein	01
S7-Programm(3)	FCI.	Send_Data	AWL	728	Funktion	0.
	5 FC2	Set_Tx_Data	AWÉ	224	Funktion	0.
E Bausteine	400 FCS	SX502 Communication	AWL	338	Funktion	0.1
	🔁 DB1	SendDb1	DB	112	Datenbaustein	0.1
	📾 DBG	Demotext 1	DB		Datenbaustein	0.1
	🕮 D84	Demotext 2	DB .	292	Datenbaustein	01
	💭 D85	Demotext 3 w. Variable	DB .	292	Datenbaustein	0.
	DB6	Variable for Demotext 3	DB	292	Datenbaustein	0
	Control	Control			Variablentabelle	0.1
	SFC15	DPWR_DAT	AWŁ		Systemfunktion	-1.0
	SFC20	BLKMOV	AWL	146	Systemfunktion	-1.0
	<			46	- 46	>
Drücken Sie F1, um Hilfe zu erhalten.		TCP/IP(Auto) ->	3Com EtherLink XL 10/:	5342 By	tes	11

11. save everything to the plc



	Va	r - [C	ontrol	SX502_PB_E	cample_01	_201 3\SIN	ATIC 30	0-Statio	n\CPU 📘	
ALC: N	a Ta	belle	Bearbeiten	Einfügen Ziel	system Vari	iable Ansichi	t Extras	Fenster	Hilfe	- 8 ×
14			¥ 🖬 🤞	3 <u>x</u> e	1 N CA	× = 3	k?			
6										
	1	Opera	nd Symbo	Anzeigeformat	Statuswert	Steuerwert				
1		M C	.0	BOOL		false				
2		M C	.1	BOOL		false				
3		M C	.2	BOOL						
4		M C	.3	BOOL						
5										
Fü	r Hilfo	e drücł	en Sie F1.			-1		9 Offli	ne	Abs < 5.: 🅢

12. open the variables sheet

13. control the marker byte with keys "CTRL + 1"

8	Var	[Con	trol @SX502_PB	Example_	01_2013\\$	IMATIC	300-Station\			
	Tabel	le Bea	arbeiten Einfügen Ziel	system Vari	iable Ansicht	Extras	Fenster Hilfe	_ @ X		
-				1 m m	× 📲	k ! ∖ ?				
0	() 60° 41 60° 10° 1100									
	C Op	erand	Symbol Anzeigeformat	Statuswert	Steuerwert					
	M	0.0	BOOL	true	false	>				
2	M	0.1	BOOL	false	faise					
3	M	0.2	BOOL	false						
4	М	0.3	BOOL	false						
5										
SYS	02 PB	Examo	10 01 2013)SIMATIC 30	0-Station' \	S7-Program			Abs < 5		

Now on the display of the SX502 will be text : "Welcome to Siebert Industrieelektronik GmbH" This is the text in DB3.

If you control M0.1 the text that display called: "Innovation in display" This is the text in DB4.

If you control M0.2 you set a text with variables : SOLL: \$VS\$VS\$VS IST: \$VS\$VS\$VS This is the text in DB5.

And if you control M0.3 you only send variables on the text from DB5: 1 2 3 4 5 6 This is the text in DB6.



14. If you want to send an individual text change only the text in DB3 and control the marker byte M0.0

In FC3 you can expand the function with the control of marker bytes if you have more text you would send. Then make a new DB with text and control it with a new marker byte.