

Readme

Q300_Profinet_Slave_V1.0_20190415

Keywords

TN-UHF-Q300, CODESYS, RFID U data interface, Profinet Slave

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1. General information

1.1 Revision history and changes

Revision	Date	Author	Changes
1.00	04/2019	H. Schnabel	Initial document

1.2 Project information

Topics	Data
Name of the sample project :	...see topic
Short description / Target definition :	Demo program for using the Q300 as a Profinet Slave
Category :	Demo program
Department / Company / Author ID :	TMH system support

1.3 Instructions for use

This sample project has been created with great care and is available to the USER free of charge. TURCK does not guarantee faultlessness, excludes all liability and warranty claims, which can be excluded by law and has no obligation to correct any errors. This example project has been tested to a limited extent and has been tested only for its functionality as described. Compliance with the applicable standards, regulations and guidelines as well as the responsibility for safety considerations and use of the sample project is subject to the USER.

1.4 Range of validity

This sample project is based on the hardware and software of the respective manufacturers as well as on the associated documentation. Therefore, this example project only applies to the described installation. New hardware and software versions may require modified handling. Please see the detailed description in the respective manuals.

2. Reference Material

2.1 Hardware

List of used Hardware and their firmware versions.

Vendor	Part no.	Type	Revision	Quantity
Turck	100000895	TN-UHF-Q300-EU-CDS	FW v1.0.1.0	1
Siemens	---	CPU1513-1PN (6ES7 513-1AL00-0AB0)	FW v1.8	

2.2 Software

Operating system information

Used programming software and configuration tools (e.g. Programming environment, libraries, device files, etc.)

Vendor	Type	Revision	Comment
Turck	Service Tool	V 3.0.1	
3S	Codesys	V 3.5.12.0	
Turck	TN-UHF-Q300-CDS_Package_v1.0.1.0	V 1.0.1.0	Package
Siemens	TIA Portal	V15	

3. Example Application (Demo)

3.1 Configuration

Hardware Parameter:

IP addresses of the demo:

- TN-UHF-Q300-EU-CDS : 192.168.1.20
- Siemens PLC: 192.168.1.25

Depending on the network, the IP addresses of the devices have to be changed in the TIA Portal/CODESYS.

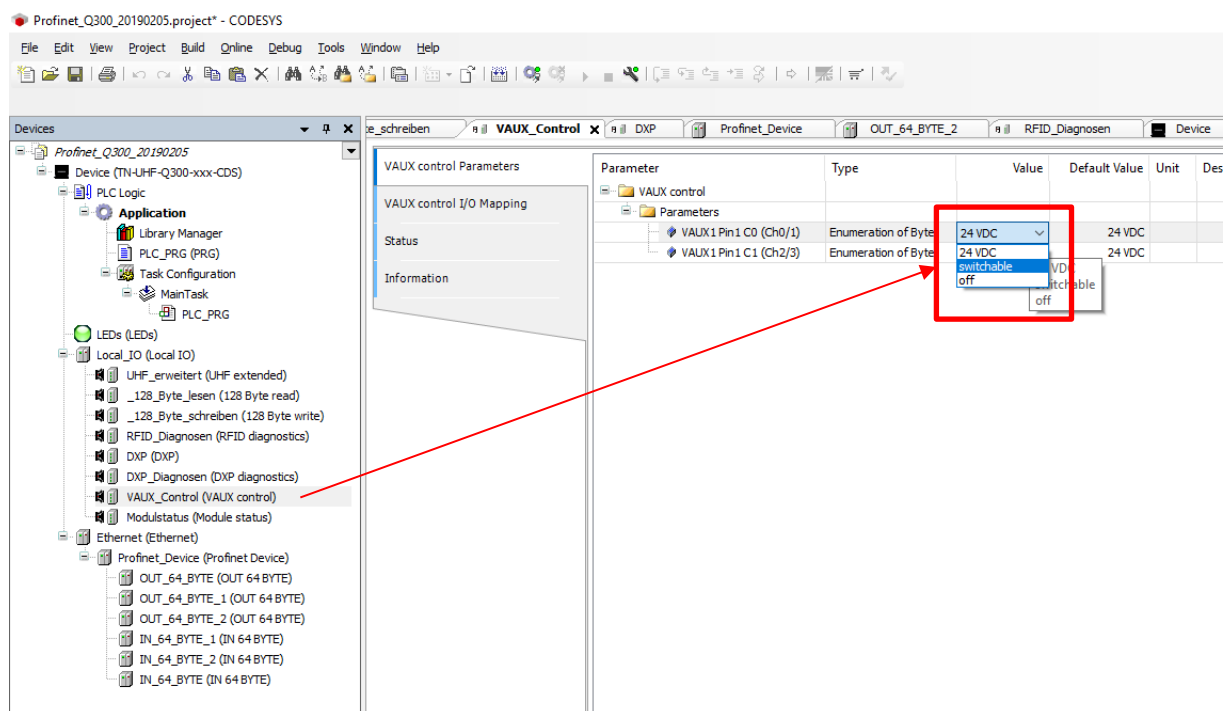
3.2 Description of the function

This demo is copying the RFID interface of the Q300 to a PROFINET connection. There is no logic inside the Q300. The Siemens PLC is the Profinet master and the Q300 is the Profinet slave. The idea is to control the Q300 via a Siemens PLC, so there is no need to create a CODESYS program.

3.3 Operation Manual

The Q300 can be controlled with its integrated RFID “U” interface. The function of this device can be seen in the attached flowchart.

Note: If it is necessary to control the VAUX of both DXP ports via the TIA Portal, the following settings in the CODESYS program hav to be changed:



4. Appendix

Q300 manual:

https://pdb2.turck.de/repo/media/_en/Anlagen/100003065.pdf#