

PNO Test Report

No PN 022-02

PROFINET Device

Pages / Attachments
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File Name
PN_022-02.docx

Department
an testlabs
Siemens s.r.o.
ADV D EU CZ

Responsible Party
Michal Zatloukal

Signature


Date
11.2.2022

Customer:

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Model_Name:	TigoMaster
Vendor_Name:	CoreTigo Ltd
Software/Firmware Release:	V2.2.0
Hardware Release	4
Application:	I/O
Vendor Ident Number:	0x03F3
Device Ident Number:	0xBB02
GSD File:	GSDML-V2.35-CoreTigo-TigoMaster-PDCT-20211202.xml
MinDeviceInterval	1 ms
Used DAP(s) and Module Ident Numbers	TigoMaster, 0x00000001

Reference Implementation

The tested device is a reference implementation of a Technology Component. Any device using this implementation still needs to be certified with their own VendorID, DeviceID and GSD file.

Reference only. Not valid for field devices

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Summary:

suggested to be certified

suggested not to be certified

Scope of test performed:

<input checked="" type="checkbox"/> PNIO_Version	V2.35
<input checked="" type="checkbox"/> Conformance Class	C
<input checked="" type="checkbox"/> optional Features	Legacy, MRP, FSU
<input type="checkbox"/> Application Class(es)	none
<input type="checkbox"/> Profiles	none
<input checked="" type="checkbox"/> Sec Level 1 Class	III

Hints and restrictions see chapter 7!

Note: The test of the device is made according to following relevant documents and script files:

- Test Specifications for PROFINET, Version V2.41 from Jan. 2020.
- Test System for PROFINET devices, Version V2.41.0.2 with annex Spirta.

Test report

According to the specified test areas:

1. Hardware Tests

Supported Type of Hardware

- Cu
- POF
- PCF
- GOF MM
- GOF SM
- Hardware works properly
- Further remarks:

Network Connector

- RJ45
- M12
- SCRJ (FO connector)
- BFOC/2.5 (IEC 60874-10, FO connector)
- SC-Duplex (in IEC 60874-14 ,FO connector)
- Hybrid connector
- Non-standard:

2. Bus Transmission and Functionality

Control Interval Monitoring, DataHold Timer

- Working within specified the range
- Deviation:

Data Cycle

- Data cycle within the specified range
- Data cycle not in specified range:

Addressing the Test Item

- Test item can be addressed by DCP means
- Test item can be addressed by DHCP means
- Other addressability:

Vendor Identifier

- As issued
- Limitations:

3. Statemachine Tests

- Functionality of Name and IP address assignment correct
- All following PROFINET functions are supported and are carried out without problems:
Connect, RTC, RTA, User-Alarms
- Testcases according to version of testsystem/version electronic test cases passed
- Errors:

4. Tested Functionality Regarding RT_CLASS_3

Support of RT_CLASS_3

- No RT_CLASS_3 functionality tested according to GSD file
- No errors detected with RT_CLASS_3
- Errors detected in the following functionality:

Application Specific Test for Synchronized Application

- No synchronized application supported according to GSD file
- Synchronized application supported according to GSD file, but no tests available
- Errors in operation:

5. Security Level 1 Test (Net Load Test)

- Security Level 1 test is done according to Security Level 1 test cases V 2.41.2.1
- Supported net load class: III.
Hint: none.

6. GSD File Check

- No errors in GSD file detected
- Errors in GSD file:

7. Interoperability

Interoperability

- No restrictions and no special behavior determined
- Special behavior:

Functional Test

- No restrictions could be determined
- Restrictions when:

8. Profiles

No profiles tested

PROFIsafe

This PROFINET Device has been successfully tested in combination with the PROFIsafe profile

PROFIdrive

This PROFINET Device has been successfully tested in combination with the PROFIdrive profile

Encoder

This PROFINET Device has been successfully tested in combination with the Encoder profile

PROFenergy

This PROFINET Device has been successfully tested in combination with the PROFenergy profile

9. Hints and Restrictions

Hints:

- none -

Restrictions:

- none -

10. Attachments

- none -