

Information on the POWERLINK certification process

The certification of POWERLINK CNs will be jointly conducted by the EPSG under the supervision of a special Certification master, which will test the CNs standard POWERLINK functions (PDO, SDO etc.) as well as testing for all conceivable kinds of communication failure. Regular plugfests will be undertaken within the framework of the certification process. In preparation for the certification of the CN solutions, they will be tested with various master solutions to ensure the correct and proper basis functionality.

Costs:

Fees of €2,000 per product / product group* are payable in advance. The EPSG will bear the cost of this fee for its members for the first product / product group. The fee includes a maximum of 2 days of testing through the certification site. Further additional expenditure (e.g. caused by faulty appliances / devices) will be charged at a fee of €800 per day. The costs for participation in plugfests are €65 per person for EPSG members and €130 per person for non-members.

* Product groups are to be understood as devices in the same device family (for example, Servo drives, I/O assembly groups, rotary encoders etc.) that use a common POWERLINK platform (hard- and software).

Validity:

The POWERLINK Certificate is valid for 3 years from the date of issue.

After the 3 years has expired, the manufacturer can extend the certificate for a further 3 years by submitting a "Declaration of Conformance" for an unchanged product.

A certified product automatically loses its certification if there are any significant changes to the hard- or software and new certification can only be gained by undertaking a new certification test through the certification laboratory.

Appointments:

Current appointments for certification within the framework of plugfests are posted on the EPSG homepage or you can enquire them at the POWERLINK office. The number of participants per appointment is limited. Appointments will be allocated in order of registration date. Further appointments can be set up at short notice if there is great interest in participation.

Registration:

Registration is by use of the enclosed registration form.

Certificate:

After successful certification the applicant will receive a written certificate from the EPSG.

Quality and Support:

Please help us to guarantee an accurate process and therefore we ask you to provide us with the required material listed below in section "Preparation" on time and we strongly recommend that in case of any technical support to get in contact with your POWERLINK technology provider / integrator in first place. The POWERLINK technology provider / integrator are listed on www.ethernet-powerlink.org/powerlink/implementation/technology-providers.

Preparation:

- The XML Device Description file (XDD) must be validated, and the validation result provided along with the registration form sent to the POWERLINK office. Validation can be carried out via the the online XDD-check tool or via the openCONFORMANCE tool.
- The CN device (device under test) must be tested with the openCONFORMANCE tool, and the resulting protocols must be supplied to the EPSG at least 2 weeks prior to the certification event. The openCONFORMANCE tool is available on the EPSG website after member-login in section "Downloads – Conformance test tool".
- During the certification event, further mandatory tests are conducted that make use of a high performance POWERLINK MN (not openCONFORMANCE). It is highly recommended to also run those tests before the certification event. Further information about these tests and the hardware being used are available on the EPSG website after member-login in section "Downloads – Conformance test tool – Documents for upcoming Certification".
- The manufacturer's test of the product to be certified must be conducted with a qualified technician in attendance. Ideally, he should be capable of solving minor observations in the device during the certification phase.
- The device must be independently and completely constructed by the applicant in conformance with all current valid legal conditions.
- The power supply for single-phase is 240 V AC and for three-phase 3 * 240 V AC max. 16 A respectively (socket changeover for AC and three-phase current)
- For information on how to reach us as well as for overnight accommodation, please request a factsheet from the POWERLINK office.

POWERLINK Certification

The POWERLINK office will be happy to answer any further questions.

POWERLINK-OFFICE der EPSG
Bonsaiweg 6
15370 Fredersdorf · Germany

Tel.: +49 (0) 33 – 439 539 270
Fax: +49 (0) 33 – 439 539 272
info@ethernet-powerlink.org