



ET9400 | EtherCAT Conformance Test Tool (CTT)

The Conformance Test Tool (CTT) enables in-house testing of EtherCAT slave devices. Use of the CTT supports EtherCAT device development, helps to ensure conformance prior to device release and to prepare the device for the official, independent Conformance Test in an EtherCAT Test Center (ETC) accredited by the EtherCAT Technology Group.

The CTT simplifies the development work with many helpful functionalities. Error detection and troubleshooting are supported by comprehensive test log information. The CTT supports the generation of different device configurations (e.g. synchronisation modes or PDO configuration) and their automated tests. Tests can be conducted as long-term tests and thus as communication stress tests, too. Each test is identified individually to enable the assignment of the telegrams in a network capture. All test results can be saved in Excel or CSV for personal documentation.

With the external CU2508 real-time Ethernet port multiplier, any computer can be used for real-time tests, too. That is also the case for tests of devices supporting synchronisation modes with DC.

In addition to many comfortable device configuration functions, the CTT supports an editor for the ESI as well as the EEPROM content (SII) and enables the control of the state machine.

Among others, the delivered tests check:

- consistency and plausibility of the information from CoE object dictionary, SII and ESI
- test of the EtherCAT State Machine (ESM) and Explicit Device Identification methods
- mailbox communication with SoE and CoE
- object dictionary description for different profiles, including CiA402
- FSoE protocol (with existing ET9204 license)

System prerequisites: Standard PC, Windows XP/Windows 7/Windows 10 (32 or 64 bit), network interface card (100 Mbit/s, together with CU2508: 1000 Mbit/s), CU2508 if applicable.

Further information and download of the CTT at www.ethercat.org (members only).

Ordering information	
ET9400	1-year license for using the EtherCAT Conformance Test Tool