



## TC1200 | TC3 PLC

TwinCAT PLC realises one or more PLCs with the international standard IEC 61131-3 3<sup>rd</sup> edition on one CPU. All programming languages described in the standard can be used for programming. The blocks of the type PROGRAM can be linked with real-time tasks. Various convenient debugging options facilitate fault-finding and commissioning. Program modifications can be carried out at any times and in any size online, i.e. when the PLC is running. All variables are available symbolically by ADS and can be read and written in appropriate clients.

- process image size, flag range, program size, POU size and number of variables are limited only by size of RAM
- cycle times from 50 µs
- link time: typically 1 µs (Intel® Core™ 2 Duo)
- IEC 61131-3: IL, FBD, LD, SFC, ST, CFC
- online changes in programs and variables
- remote debugging via TCP/IP
- online connection with PLC runtime system worldwide via TCP/IP or fieldbus
- online monitoring of variables in variable lists, watch windows, editors
- online status and powerflow (accumulator contents) of programs and instances
- triggering, forcing and setting variables
- powerful debugging with single cycle, break points, step in, step over, display of the current call stack, watchlist shows selection of variable, trace functions
- online management of all variable names and structures across the whole system
- remanent and persistent data, UPS supported storage on hard disk, storage in NOVRAM as option
- variable reading and writing access via ADS, OPC
- certified in accordance with PLCopen base level (IL/ST)
- structured programming with modular program management
- source code is stored in the target system
- convenient library management
- powerful compiler with incremental compilation
- all common data types, structures, arrays, including multi-dimensional arrays
- convenient creation of programs with: autoformat, autodeclare, cross-reference, search/replace, project comparison
- simple linking to source code administration tools by embedding in Microsoft Visual Studio®

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|-----------------------|----------------------------|
| <b>Technical data</b> | <b>TC1200</b>              |
| Target system         | Windows 7/8/10, Windows CE |

| Ordering information |  |
|----------------------|--|
| TC1200-0v20          | TC3 PLC, platform 20 (Economy)                 |
| TC1200-0v30          | TC3 PLC, platform 30 (Economy Plus)            |
| TC1200-0v40          | TC3 PLC, platform 40 (Performance)             |
| TC1200-0v50          | TC3 PLC, platform 50 (Performance Plus)        |
| TC1200-0v60          | TC3 PLC, platform 60 (Mid Performance)         |
| TC1200-0v70          | TC3 PLC, platform 70 (High Performance)        |
| TC1200-0v80          | TC3 PLC, platform 80 (Very High Performance)   |
| TC1200-0v81          | TC3 PLC, platform 81 (Many-core 5...8 Cores)   |
| TC1200-0v82          | TC3 PLC, platform 82 (Many-core 9...16 Cores)  |
| TC1200-0v83          | TC3 PLC, platform 83 (Many-core 17...32 Cores) |
| TC1200-0v84          | TC3 PLC, platform 84 (Many-core 33...64 Cores) |
| TC1200-0v90          | TC3 PLC, platform 90 (Other)                   |
| TC1200-0v91          | TC3 PLC, platform 91 (Other 5...8 Cores)       |
| TC1200-0v92          | TC3 PLC, platform 92 (Other 9...16 Cores)      |

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| TC1200-0v93 | TC3 PLC, platform 93 (Other 17...32 Cores) |
| TC1200-0v94 | TC3 PLC, platform 94 (Other 33...64 Cores) |