



SIMATIC S7-1500 Failsafe Software Controller CPU 1507S F Single License f. 1 install., R-SW, SW and docum. on DVD, license key on USB flash drive, R-SW Class A, 6 languages (de,en,it,fr,es,zh), executable in Windows 7 and Windows 10; reference HW: SIMATIC IPC2x7E, IPC4x7E, IPC4x7D, IPC6x7E, IPC8x7E, IPC627D, IPC677D, IPC827D

| General information                                      |   |
|--|---|
| Product type designation                                 | CPU 1507S F   |
| Software version   | V21.9   |
| Product function   |   |
| • I&M data   | Yes; I&M0 to I&M3   |
| Engineering with   |   |
| • STEP 7 TIA Portal configurable/integrated from version | V17   |
| Configuration control                                    |   |
| via dataset  | Yes   |
| Memory   |   |
| SIMATIC memory card required                             | No; Use of the PC mass storage  |
| Work memory  |   |
| • integrated (for program)                               | 7.5 Mbyte   |
| • integrated (for data)                                  | 20 Mbyte  |
| • integrated (for CPU function library of CPU Runtime)   | 50 Mbyte  |
| Load memory  |   |
| • integrated (on PC mass storage)                        | 320 Mbyte   |
| Backup   |   |
| • with UPS   | Yes; all memory areas declared retentive  |
| • with non-volatile memory                               | Yes; Depending on PC hardware   |
| CPU processing times                                     |   |
| for bit operations, typ.                                 | 1 ns; On IPC427E, Intel Xeon processor  |
| for word operations, typ.                                | 2 ns; On IPC427E, Intel Xeon processor  |
| for fixed point arithmetic, typ.                         | 2 ns; On IPC427E, Intel Xeon processor  |
| for floating point arithmetic, typ.                      | 2 ns; On IPC427E, Intel Xeon processor  |
| CPU-blocks   |   |
| Number of elements (total)                               | 6 000; In addition to blocks such as DBs, FBs and FCs, UDTs, global constants, etc. are also regarded as elements |
| DB   |   |
| • Number, max.   | 5 999; Number range: 1 to 65535   |
| • Size, max.   | 16 Mbyte  |
| FB   |   |
| • Number, max.   | 5 998; Number range: 1 to 65535   |
| • Size, max.   | 1 024 kbyte   |
| FC   |   |
| • Number, max.   | 5 999; Number range: 1 to 65535   |
| • Size, max.   | 1 024 kbyte   |
| OB   |   |
| • Size, max.   | 1 024 kbyte   |
| • Number of free cycle OBs                               | 100   |

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| • Number of time alarm OBs   | 20  |
| • Number of delay alarm OBs  | 20  |
| • Number of cyclic interrupt OBs                                   | 20  |
| • Number of process alarm OBs                                      | 50  |
| • Number of DPV1 alarm OBs   | 3   |
| • Number of isochronous mode OBs                                   | 1   |
| • Number of technology synchronous alarm OBs                       | 2   |
| • Number of startup OBs  | 100   |
| • Number of asynchronous error OBs                                 | 4   |
| • Number of synchronous error OBs                                  | 2   |
| • Number of diagnostic alarm OBs                                   | 1   |
| <b>Nesting depth</b>   |   |
| • per priority class   | 24; Up to 8 possible for F-blocks   |
| <b>Counters, timers and their retentivity</b>                      |   |
| <b>S7 counter</b>  |   |
| • Number   | 2 048   |
| <b>Retentivity</b>   |   |
| — adjustable   | Yes   |
| <b>IEC counter</b>   |   |
| • Number   | Any (only limited by the main memory)   |
| <b>Retentivity</b>   |   |
| — adjustable   | Yes   |
| <b>S7 times</b>  |   |
| • Number   | 2 048   |
| <b>Retentivity</b>   |   |
| — adjustable   | Yes   |
| <b>IEC timer</b>   |   |
| • Number   | Any (only limited by the main memory)   |
| <b>Retentivity</b>   |   |
| — adjustable   | Yes   |
| <b>Data areas and their retentivity</b>                            |   |
| Retentive data area (incl. timers, counters, flags), max.          | 135 kbyte; on SIMATIC IPC227E, IPC277E, IPC427D, IPC477D, IPC427E, IPC477E, IPC627E, IPC677E; 35 KB on SIMATIC IPC627D, IPC677D and IPC827D |
| Extended retentive data area (incl. timers, counters, flags), max. | 20 Mbyte; When using PC mass storage for retentive data   |
| <b>Flag</b>  |   |
| • Size, max.   | 16 kbyte  |
| • Number of clock memories   | 8; in 1 memory byte   |
| <b>Data blocks</b>   |   |
| • Retentivity adjustable   | Yes   |
| • Retentivity preset   | No  |
| <b>Local data</b>  |   |
| • per priority class, max.   | 64 kbyte; max. 16 KB per block  |
| <b>Address area</b>  |   |
| Number of IO modules   | 8 192   |
| <b>I/O address area</b>  |   |
| • Inputs   | 32 kbyte  |
| • Outputs  | 32 kbyte  |
| <b>Subprocess images</b>   |   |
| • Number of subprocess images, max.                                | 32  |
| <b>Hardware configuration</b>                                      |   |
| Number of distributed IO systems                                   | 20  |
| <b>Number of DP masters</b>  |   |
| • via PC interfaces  | 1   |
| <b>Number of IO Controllers</b>                                    |   |
| • via PC interfaces  | 1; any combination of RT or IRT interfaces  |
| <b>Time of day</b>   |   |
| <b>Clock</b>   |   |
| • Type   | Software clock, synchronizable, no battery backup   |
| • Deviation per day, max.  | Depending on PC hardware  |
| <b>Operating hours counter</b>                                     |   |

|   |  |
|---|--|
| • Number  | 16   |
| <b>Clock synchronization</b>  |  |
| • supported   | Yes  |
| • to DP, master   | No   |
| • on Ethernet via NTP   | Yes  |
| • on Windows clock, slave   | Yes  |
| <b>Interfaces</b>   |  |
| Number of interfaces  | 3  |
| Number of PROFINET interfaces   | 2; In case of I-Device configuration, only one PROFINET interface is supported   |
| Number of PROFIBUS interfaces   | 1  |
| <b>1. Interface</b>   |  |
| Interface type  | CP 1625  |
| Number of connections   | 128  |
| <b>Interface types</b>  |  |
| • RJ 45 (Ethernet)  | Yes  |
| — Transmission rate, max.   | 100 Mbit/s   |
| — Industrial Ethernet status LED  | Yes  |
| • Number of ports   | 2  |
| • integrated switch   | Yes  |
| <b>Protocols</b>  |  |
| • PROFINET IO Controller  | Yes  |
| • PROFINET IO Device  | Yes  |
| • SIMATIC communication   | Yes  |
| • Open IE communication   | Yes  |
| • Web server  | Yes  |
| <b>PROFINET IO Controller</b>   |  |
| <b>Services</b>   |  |
| — Isochronous mode  | Yes  |
| — Direct data exchange  | Yes; Requirement: IRT and isochronous mode (MRPD optional)   |
| — shortest clock pulse  | 500 µs   |
| — IRT   | Yes  |
| — PROFlenergy   | Yes  |
| — Prioritized startup   | Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) or CP1625 |
| — Number of connectable IO Devices, max.                                      | 256  |
| — Of which IO devices with IRT, max.  | 64   |
| — Number of connectable IO Devices for RT, max.                               | 256  |
| — of which in line, max.  | 256  |
| — Number of IO Devices that can be simultaneously activated/deactivated, max. | 8  |
| — IO Devices changing during operation (partner ports), supported             | Yes; the CPU and changing IO devices must be separated by a switch (e.g. SCALANCE X205)  |
| — Number of IO Devices per tool, max.   | 8  |
| — Updating times  | The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data   |
| <b>Update time for IRT</b>  |  |
| — for send cycle of 250 µs  | 250 µs to 4 ms   |
| — for send cycle of 500 µs  | 500 µs to 8 ms   |
| — for send cycle of 1 ms  | 1 ms to 16 ms  |
| — for send cycle of 2 ms  | 2 ms to 32 ms  |
| — for send cycle of 4 ms  | 4 ms to 64 ms  |
| — With IRT and parameterization of "odd" send cycles                          | Update time = set "odd" send clock (any multiple of 125 µs: 375 µs, 625 µs ... 3 875 µs)   |
| <b>Update time for RT</b>   |  |
| — for send cycle of 250 µs  | 250 µs to 128 ms   |
| — for send cycle of 500 µs  | 500 µs to 256 ms   |
| — for send cycle of 1 ms  | 1 ms to 512 ms   |
| — for send cycle of 2 ms  | 2 ms to 512 ms   |
| — for send cycle of 4 ms  | 4 ms to 512 ms   |
| <b>Address area</b>   |  |

|   |   |
|---|---|
| — Inputs, max.  | 8 kbyte   |
| — Outputs, max.   | 8 kbyte   |
| <b>PROFINET IO Device</b>   |   |
| <b>Services</b>   |   |
| — PG/OP communication   | Yes   |
| — Isochronous mode  | No  |
| — IRT   | Yes   |
| — PROFINergy  | Yes   |
| — Prioritized startup   | Yes; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205)                           |
| — Shared device   | Yes   |
| — Number of IO Controllers with shared device, max.                           | 4   |
| — Asset management record   | Yes   |
| <b>2. Interface</b>   |   |
| Interface type  | Onboard PROFINET / IE interface X2/X3 of the SIMATIC IPC, Intel Springville i210T   |
| Number of connections   | 128   |
| <b>Interface types</b>  |   |
| • RJ 45 (Ethernet)  | Yes   |
| — Transmission rate, max.   | 100 Mbit/s  |
| — Industrial Ethernet status LED  | Yes   |
| • Number of ports   | 1   |
| • integrated switch   | No  |
| <b>Protocols</b>  |   |
| • PROFINET IO Controller  | Yes   |
| • PROFINET IO Device  | Yes   |
| • SIMATIC communication   | Yes   |
| • Open IE communication   | Yes   |
| • Web server  | Yes   |
| • Media redundancy  | No  |
| <b>PROFINET IO Controller</b>   |   |
| <b>Services</b>   |   |
| — Isochronous mode  | No  |
| — IRT   | No  |
| — PROFINergy  | Yes   |
| — Prioritized startup   | Yes; max. 32 PROFINET devices; if you want to use the "Prioritized startup" functionality in STEP 7 for the PROFINET interface of the CPU, the CPU and the device must be separated by means of a switch (e.g. SCALANCE X205) |
| — Number of connectable IO Devices for RT, max.                               | 128   |
| — of which in line, max.  | 128   |
| — Number of IO Devices that can be simultaneously activated/deactivated, max. | 8   |
| — Number of IO Devices per tool, max.   | 8   |
| — Updating times  | The minimum value of the update time also depends on communication share set for PROFINET IO, on the number of IO devices, and on the quantity of configured user data  |
| <b>Address area</b>   |   |
| — Inputs, max.  | 8 kbyte   |
| — Outputs, max.   | 8 kbyte   |
| <b>PROFINET IO Device</b>   |   |
| <b>Services</b>   |   |
| — Isochronous mode  | No  |
| — IRT   | No  |
| — PROFINergy  | Yes   |
| — Shared device   | Yes   |
| — Number of IO Controllers with shared device, max.                           | 4   |
| — Asset management record   | Yes   |
| <b>3. Interface</b>   |   |
| Interface type  | PROFIBUS with CP 5622, CP 5622 onboard  |
| Number of connections   | 44  |
| <b>Interface types</b>  |   |
| • RS 485  | Yes   |

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|---|---|
| <b>Protocols</b>                                |   |
| • PROFIBUS DP master                            | Yes   |
| • PROFIBUS DP slave                             | No  |
| • SIMATIC communication                         | Yes; no PG/STEP 7 connection possible                     |
| <b>PROFIBUS DP master</b>                       |   |
| • Number of DP slaves, max.                     | 64  |
| <b>Services</b>                                 |   |
| — Equidistance                                  | No  |
| — Isochronous mode                              | No  |
| <b>Address area</b>                             |   |
| — Inputs, max.                                  | 8 kbyte   |
| — Outputs, max.                                 | 8 kbyte   |
| <b>4. Interface</b>                             |   |
| Interface type                                  | PROFIBUS with CP 5623                                     |
| Number of connections                           | 44  |
| <b>Interface types</b>                          |   |
| • RS 485  | Yes   |
| <b>Protocols</b>                                |   |
| • PROFIBUS DP master                            | Yes   |
| • PROFIBUS DP slave                             | No  |
| • SIMATIC communication                         | Yes; no PG/STEP 7 connection possible                     |
| <b>PROFIBUS DP master</b>                       |   |
| • Number of DP slaves, max.                     | 125   |
| <b>Services</b>                                 |   |
| — Equidistance                                  | No  |
| — Isochronous mode                              | No  |
| <b>Address area</b>                             |   |
| — Inputs, max.                                  | 8 kbyte   |
| — Outputs, max.                                 | 8 kbyte   |
| <b>Protocols</b>                                |   |
| PROFIsafe                                       | Yes   |
| <b>Number of connections</b>                    |   |
| • Number of connections, max.                   | 128   |
| • Number of connections reserved for ES/HMI/web | 10  |
| • Number of S7 routing paths                    | 16  |
| <b>Redundancy mode</b>                          |   |
| <b>Media redundancy</b>                         |   |
| — MRP   | Yes   |
| — MRPD  | Yes; Requirement: IRT                                     |
| — Switchover time on line break, typ.           | 200 ms; For MRP, bumpless for MRPD                        |
| — Number of stations in the ring, max.          | 50  |
| <b>SIMATIC communication</b>                    |   |
| • PG/OP communication                           | Yes   |
| • S7 routing                                    | Yes   |
| • S7 communication, as server                   | Yes   |
| • S7 communication, as client                   | Yes   |
| • User data per job, max.                       | 64 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes           |
| <b>Open IE communication</b>                    |   |
| • TCP/IP  | Yes   |
| — Data length, max.                             | 64 kbyte  |
| • ISO-on-TCP (RFC1006)                          | Yes   |
| — Data length, max.                             | 64 kbyte  |
| • UDP   | Yes   |
| — Data length, max.                             | 2 kbyte   |
| — UDP multicast                                 | Yes; 128 multicast circuits (of which max. 5 via CP 1625) |
| • DHCP  | Yes   |
| • DNS   | Yes   |
| • SNMP  | Yes   |
| • DCP   | Yes   |
| • LLDP  | Yes   |
| <b>Web server</b>                               |   |

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| • HTTP   | Yes  |
| • HTTPS  | Yes  |
| <b>OPC UA</b>  |  |
| • Runtime license required   | Yes; "Medium" license required   |
| • OPC UA Client  | Yes; Data access (read, write), method call  |
| — Application authentication   | Yes  |
| — Security policies  | Yes; Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256 |
| — User authentication  | Yes; "anonymous" or by user name & password  |
| — Number of connections, max.  | 40   |
| — Number of nodes of the client interfaces, recommended max.   | 5 000  |
| — Number of elements for one call of OPC-UA_NodeGetHandleList/OPC-UA_ReadList/OPC-UA_WriteList, max.   | 300  |
| — Number of elements for one call of OPC-UA_NameSpaceGetIndexList, max.                                | 20   |
| — Number of elements for one call of OPC-UA_MethodGetHandleList, max.                                  | 100  |
| — Number of simultaneous calls of the client instructions for session management, per connection, max. | 1  |
| — Number of simultaneous calls of the client instructions for data access, per connection, max.        | 5  |
| — Number of registerable nodes, max.   | 5 000  |
| — Number of registerable method calls of OPC-UA_MethodCall, max.                                       | 100  |
| — Number of inputs/outputs when calling OPC-UA_MethodCall, max.  | 20   |
| • OPC UA Server  | Yes; Data access (read, write, subscribe), method call, custom address space         |
| — Application authentication   | Yes  |
| — Security policies  | Yes; Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256 |
| — User authentication  | Yes; "anonymous" or by user name & password  |
| — Number of sessions, max.   | 64   |
| — Number of accessible variables, max.   | 200 000  |
| — Number of registerable nodes, max.   | 50 000   |
| — Number of subscriptions per session, max.  | 20   |
| — Sampling interval, min.  | 10 ms  |
| — Publishing interval, min.  | 10 ms  |
| — Number of server methods, max.   | 100  |
| — Number of inputs/outputs per server method, max.   | 20   |
| — Number of monitored items, recommended max.  | 10 000; for 1 s sampling interval and 1 s send interval                              |
| — Number of server interfaces, max.  | 10   |
| — Number of nodes for user-defined server interfaces, max.   | 30 000   |
| <b>Further protocols</b>   |  |
| • MODBUS   | Yes; MODBUS TCP  |
| <b>S7 message functions</b>  |  |
| Number of login stations for message functions, max.   | 32   |
| Program alarms   | Yes  |
| Number of configurable program messages, max.  | 10 000   |
| Number of loadable program messages in RUN, max.   | 5 000  |
| Number of simultaneously active program alarms   | 1 000  |
| • Number of program alarms   | 1 000  |
| • Number of alarms for system diagnostics  | 200  |
| • Number of alarms for motion technology objects   | 160  |
| <b>Test commissioning functions</b>  |  |
| Joint commission (Team Engineering)  | Yes; Parallel online access possible for up to 10 engineering systems                |
| Status block   | Yes; up to 8 simultaneously  |
| Single step  | Yes  |
| Number of breakpoints  | 8  |
| <b>Status/control</b>  |  |
| • Status/control variable  | Yes  |

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|--|---|
| <ul style="list-style-type: none"> <li>• Variables</li> <li>• Number of variables, max. <ul style="list-style-type: none"> <li>— of which status variables, max.</li> <li>— of which control variables, max.</li> </ul> </li> </ul>  | Inputs, outputs, memory bits, DB, times, counters<br><br>200<br>200   |
| <b>Forcing</b>   |   |
| <ul style="list-style-type: none"> <li>• Forcing</li> <li>• Forcing, variables</li> <li>• Number of variables, max.</li> </ul>   | Yes<br>Inputs, outputs<br>200   |
| <b>Diagnostic buffer</b>   |   |
| <ul style="list-style-type: none"> <li>• present</li> <li>• Number of entries, max. <ul style="list-style-type: none"> <li>— of which powerfail-proof</li> </ul> </li> </ul>   | Yes<br>1 000<br>300   |
| <b>Traces</b>  |   |
| <ul style="list-style-type: none"> <li>• Number of configurable Traces</li> <li>• Memory size per trace, max.</li> </ul>   | 4<br>512 kbyte  |
| <b>Interrupts/diagnostics/status information</b>   |   |
| <b>Diagnostics indication LED</b>  |   |
| <ul style="list-style-type: none"> <li>• RUN/STOP LED</li> <li>• ERROR LED</li> <li>• MAINT LED</li> </ul>   | Yes; HW LED of SIMATIC IPC227E, IPC427D/E, IPC627D/E, IPC827D, IPC677D/E<br>Yes; HW LED of SIMATIC IPC227E, IPC427D/E, IPC627D/E, IPC826D, IPC677D/E<br>Yes; HW LED of SIMATIC IPC227E, IPC427D/E, IPC627D/E, IPC826D, IPC677D/E  |
| <b>Supported technology objects</b>  |   |
| Motion Control <ul style="list-style-type: none"> <li>• Number of available Motion Control resources for technology objects</li> <li>• Required Motion Control resources <ul style="list-style-type: none"> <li>— per speed-controlled axis</li> <li>— per positioning axis</li> <li>— per synchronous axis</li> <li>— per external encoder</li> <li>— per output cam</li> <li>— per cam track</li> <li>— per probe</li> </ul> </li> <li>• Positioning axis <ul style="list-style-type: none"> <li>— Number of positioning axes at motion control cycle of 4 ms (typical value)</li> <li>— Number of positioning axes at motion control cycle of 8 ms (typical value)</li> </ul> </li> </ul> | Yes; Note: The number of technology objects affects the cycle time of the PLC program; selection guide via the TIA Selection Tool or SIZER<br><br>4 800<br><br>40<br>80<br>160<br>80<br>20<br>160<br>40<br><br>30; On IPC427E, Intel Xeon processor<br>60; On IPC427E, Intel Xeon processor |
| Controller <ul style="list-style-type: none"> <li>• PID_Compact</li> <li>• PID_3Step</li> <li>• PID-Temp</li> </ul>  | Yes; Universal PID controller with integrated optimization<br>Yes; PID controller with integrated optimization for valves<br>Yes; PID controller with integrated optimization for temperature   |
| Counting and measuring <ul style="list-style-type: none"> <li>• High-speed counter</li> </ul>  | Yes   |
| <b>Standards, approvals, certificates</b>  |   |
| <b>Highest safety class achievable in safety mode</b>  |   |
| <ul style="list-style-type: none"> <li>• Performance level according to ISO 13849-1</li> <li>• SIL acc. to IEC 61508</li> </ul>  | PLe<br>SIL 3  |
| <b>Probability of failure (for service life of 20 years and repair time of 100 hours)</b>  |   |
| <ul style="list-style-type: none"> <li>— Low demand mode: PFDavg in accordance with SIL3</li> <li>— High demand/continuous mode: PFH in accordance with SIL3</li> </ul>  | < 2.00E-05<br>< 1.00E-09  |
| <b>Hardware requirement</b>  |   |
| Hardware required  | SIMATIC IPC2x7E, IPC4x7D/E, IPC627D, IPC677D, IPC827D: configurations with NVRAM required; IPC6x7E, IPC8x7E   |
| <b>Processor</b>   |   |
| <ul style="list-style-type: none"> <li>• Single-core processor</li> <li>• Single-core processor with hyper-threading</li> <li>• Multi-core processor</li> </ul>  | No<br>No<br>Yes   |

|   |  |
|---|--|
| <ul style="list-style-type: none"> <li>Multi-core processor with hyper-threading</li> <li>occupied cores</li> </ul>   | <p>Yes</p> <p>1; For multicore processors with activated Hyper-Threading, one complete physical core is reserved for the CPU 1507S</p>   |
| <b>Memory</b>   |  |
| <ul style="list-style-type: none"> <li>Work memory, min.</li> <li>Hard disk memory required for installation</li> <li>Temporary hard disk memory for installation</li> <li>Hard disk memory required at runtime</li> </ul>                    | <p>4 Gbyte</p> <p>720 Mbyte</p> <p>230 Mbyte</p> <p>400 Mbyte</p>  |
| <b>Operating systems</b>  |  |
| Runs under operating system   |  |
| <ul style="list-style-type: none"> <li>Windows 7</li> <li>Windows 10</li> </ul>   | <p>Yes; Professional, Enterprise, Ultimate (32 bit and 64 bit); Windows Embedded Standard 7 with delivery image of the SIMATIC IPC</p> <p>Yes; Windows 10 Enterprise 2016 LTSB, 64-bit, MUI on IPC2x7E, IPC4x7E, IPC6x7D, IPC8x7D; Windows 10 Enterprise 2019 LTSC 64-bit, MUI on IPC2x7E, IPC4x7E, IPC6x7E, IPC8x7E</p> |
| <b>configuration / header</b>   |  |
| configuration / programming / header  |  |
| Programming language  |  |
| — LAD   | Yes; incl. failsafe  |
| — FBD   | Yes; incl. failsafe  |
| — STL   | Yes  |
| — SCL   | Yes  |
| — CFC   | No   |
| — GRAPH   | Yes  |
| Know-how protection   |  |
| <ul style="list-style-type: none"> <li>User program protection/password protection</li> <li>Copy protection</li> <li>Block protection</li> </ul>  | <p>Yes</p> <p>Yes</p> <p>Yes</p>   |
| Access protection   |  |
| <ul style="list-style-type: none"> <li>Protection level: Write protection</li> <li>Protection level: Read/write protection</li> <li>Protection level: Write protection for Failsafe</li> <li>Protection level: Complete protection</li> </ul> | <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p>  |
| programming / cycle time monitoring / header  |  |
| <ul style="list-style-type: none"> <li>lower limit</li> <li>upper limit</li> </ul>  | <p>adjustable minimum cycle time</p> <p>adjustable maximum cycle time</p>  |
| Open Development interfaces   |  |
| <ul style="list-style-type: none"> <li>Size of ODK SO file, max.</li> </ul>   | 9.8 Mbyte  |

last modified:

4/1/2022 