MANUFACTURER DOCUMENT PACKAGE

# Manufacturer's Manual

Selected official pages for procurement and maintenance review

PRODUCT BRAND

## Siemens

PRODUCT MODEL

## 6ES7515-2AN03-0AB0

CPU 1515-2 PN Controller. Source PDF pages: M1 pp. 2,26,43-56. Adjacent model text on shared pages is outside this product reference.

OFFICIAL SOURCE

CPU 1515-2 PN (6ES7515-2AN03-0AB0) Equipment Manual; 01/2026; copyright imprint 03/2026

**Siemens original documentation and product reference**

January 2026 equipment reference, not installation instructions. FS04 and firmware V4.1 are document references, not the delivered-unit revision. Complete technical tables retained.

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Amikon Limited prepared this independent reference package. Selected manufacturer pages follow with their original content and pagination visible.

# Legal information

## Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

**⚠ DANGER**

indicates that death or severe personal injury **will** result if proper precautions are not taken.

**⚠ WARNING**

indicates that death or severe personal injury **may** result if proper precautions are not taken.

**⚠ CAUTION**

indicates that minor personal injury can result if proper precautions are not taken.

**NOTICE**

indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

## Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified persons are those who, because of their training and experience, are familiar with the installation, assembly, commissioning, operation, decommissioning and disassembly of the product and can recognize risks and avoid possible hazards.

## Proper use of Siemens products

Note the following:

**⚠ WARNING**

Siemens products may only be used for the application described in the catalog and the associated usage information. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

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## Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

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## Properties

The CPU 1515-2 PN has the following technical properties:

| Property | Description | Additional information |
|---|---|---|
| **CPU display** | All CPUs of the SIMATIC S7-1500 product series feature a display with plain text information. The display provides information on order numbers, firmware version and serial numbers of all connected modules. In addition, you can set the IP address of the CPU and make further network settings. The display shows occurring error messages directly in plain text.<br>In addition to the functions listed here, a multitude of other functions that are described in the SIMATIC S7-1500 Display Simulator are shown on the display. | • S7-1500, ET 200MP system manual (https://support.industry.siemens.com/cs/ww/en/view/59191792)<br>• SIMATIC S7-1500 Display Simulator (https://support.industry.siemens.com/cs/ww/en/view/109761758) |
| **Supply voltage** | The 24 V DC supply voltage is fed in via a 4-pin plug located at the bottom of the CPU. | • Section Connecting up (Page 36)<br>• S7-1500, ET 200MP system manual (https://support.industry.siemens.com/cs/ww/en/view/59191792) |
| **PROFINET IO** | | |
| PROFINET interface (X1 P1R and X1 P2R) | The interface has two ports. In addition to basic PROFINET functionality, it also supports PROFINET IO RT (real time) and IRT (isochronous real time). | PROFINET (https://support.industry.siemens.com/cs/ww/es/view/49948856) function manual |
| PROFINET interface (X2 P1) | The interface has one port. In addition to basic PROFINET functionality, it also supports PROFINET IO RT (real time). | |
| Operation of the CPU as<br>• IO controller<br>• I-device | • **IO controller:**<br>As an IO controller, the CPU addresses the connected IO devices<br>• **I-device:**<br>As an I-device (intelligent IO device), the CPU is assigned to a higher-level IO controller and is used in the process as an intelligent pre-processing unit of sub-processes | |

## Accessories

You can find information on "Accessories/spare parts" in the S7-1500, ET 200MP system manual (https://support.industry.siemens.com/cs/ww/en/view/59191792).

# Technical specifications

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The following table shows the technical specifications as of 01/2026. You will find a data sheet including daily updated technical specifications on the Internet (https://support.industry.siemens.com/cs/ww/en/pv/6ES7515-2AN03-0AB0/td?dl=en).

| Article number | 6ES7515-2AN03-0AB0 |
|---|---|
| **General information** | |
| Product type designation | CPU 1515-2 PN |
| HW functional status | FS04 |
| Firmware version | V4.1 |
| • FW update possible | Yes |
| **Product function** | |
| • I&M data | Yes; I&M0 to I&M3 |
| • Isochronous mode | Yes; Distributed and central; with minimum OB 6x cycle of 375 µs (distributed) and 1 ms (central) |
| • SysLog | Yes |
| **Engineering with** | |
| • STEP 7 TIA Portal configurable/integrated from version | V21 (FW V4.1) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7515-2AM02-0AB0 |
| **Configuration control** | |
| via dataset | Yes |
| **Display** | |
| Screen diagonal [cm] | 6.1 cm |
| **Control elements** | |
| Number of keys | 8 |
| Mode buttons | 2 |
| **Supply voltage** | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| Reverse polarity protection | Yes |
| **Mains buffering** | |
| • Mains/voltage failure stored energy time | 5 ms |
| • Repeat rate, min. | 1/s |
| **Input current** | |
| Current consumption (rated value) | 0.65 A |
| Current consumption, max. | 1.03 A |
| Inrush current, max. | 1.15 A; Rated value |
| $I^2t$ | 0.6 $A^2 \cdot s$ |

| Article number | 6ES7515-2AN03-0AB0 |
|---|---|
| **Power** | |
| Infeed power to the backplane bus | 12 W |
| Power consumption from the backplane bus (balanced) | 6.2 W |
| **Power loss** | |
| Power loss, typ. | 3.6 W |
| **Memory** | |
| Number of slots for SIMATIC memory card | 1 |
| SIMATIC memory card required | Yes |
| **Work memory** | |
| • integrated (for program) | 1 Mbyte |
| • integrated (for data) | 4.5 Mbyte |
| **Load memory** | |
| • Plug-in (SIMATIC Memory Card), max. | 32 Gbyte |
| **Backup** | |
| • maintenance-free | Yes |
| **CPU processing times** | |
| for bit operations, typ. | 6 ns |
| for word operations, typ. | 7 ns |
| for fixed point arithmetic, typ. | 9 ns |
| for floating point arithmetic, typ. | 37 ns |
| **CPU-blocks** | |
| Number of elements (total) | 8 000; Blocks (OB, FB, FC, DB) and UDTs |
| **DB** | |
| • Number range | 1 ... 60 999; subdivided into: number range that can be used by the user: 1 ... 59 999, and number range of DBs created via SFC 86: 60 000 ... 60 999 |
| • Size, max. | 4.5 Mbyte; For DBs with absolute addressing, the max. size is 64 KB |
| **FB** | |
| • Number range | 0 ... 65 535 |
| • Size, max. | 1 Mbyte |
| **FC** | |
| • Number range | 0 ... 65 535 |
| • Size, max. | 1 Mbyte |
| **OB** | |
| • Size, max. | 1 Mbyte |
| • Number of free cycle OBs | 100 |
| • Number of time alarm OBs | 20 |
| • Number of delay alarm OBs | 20 |
| • Number of cyclic interrupt OBs | 20; With minimum OB 3x cycle of 250 µs |

| Article number | 6ES7515-2AN03-0AB0 |
|---|---|
| • Number of process alarm OBs | 50 |
| • Number of DPV1 alarm OBs | 3 |
| • Number of isochronous mode 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 |
| **Nesting depth** | |
| • per priority class | 24 |
| **Counters, timers and their retentivity** | |
| **S7 counter** | |
| • Number | 2 048 |
| **Retentivity** | |
| – adjustable | Yes |
| **IEC counter** | |
| • Number | Any (only limited by the main memory) |
| **Retentivity** | |
| – adjustable | Yes |
| **S7 times** | |
| • Number | 2 048 |
| **Retentivity** | |
| – adjustable | Yes |
| **IEC timer** | |
| • Number | Any (only limited by the main memory) |
| **Retentivity** | |
| – adjustable | Yes |
| **Data areas and their retentivity** | |
| Retentive data area (incl. timers, counters, flags), max. | 472 kbyte; in total; for bit memories, timers, counters, DBs, and technology data (axes) |
| Extended retentive data area (incl. timers, counters, flags), max. | 4.5 Mbyte; When using PS 6 0W 24/48/60 V DC HF |
| **Flag** | |
| • Size, max. | 16 kbyte |
| • Number of clock memories | 8; 8 clock memory bit, grouped into one clock memory byte |
| **Data blocks** | |
| • Retentivity adjustable | Yes |
| • Retentivity preset | No |
| **Local data** | |
| • per priority class, max. | 64 kbyte; max. 16 KB per block |

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|---|---|
| **Address area** | |
| Number of IO modules | 8 192; max. number of modules / submodules |
| **I/O address area** | |
| • Inputs | 32 kbyte; All inputs are in the process image |
| • Outputs | 32 kbyte; All outputs are in the process image |
| **per integrated IO subsystem** | |
| – Inputs (volume) | 8 kbyte |
| – Outputs (volume) | 8 kbyte |
| **per CM/CP** | |
| – Inputs (volume) | 8 kbyte |
| – Outputs (volume) | 8 kbyte |
| **Subprocess images** | |
| • Number of subprocess images, max. | 32 |
| **Hardware configuration** | |
| Number of distributed IO systems | 64; A distributed I/O system is characterized not only by the integration of distributed I/O via PROFINET or PROFIBUS communication modules, but also by the connection of I/O via AS-i master modules or links (e.g. IE/PB-Link) |
| **Number of DP masters** | |
| • Via CM | 8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total |
| **Number of IO Controllers** | |
| • integrated | 2 |
| • Via CM | 8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total |
| **Rack** | |
| • Modules per rack, max. | 32; CPU + 31 modules |
| • Number of lines, max. | 1 |
| **PtP CM** | |
| • Number of PtP CMs | the number of connectable PtP CMs is only limited by the number of available slots |
| **Time of day** | |
| **Clock** | |
| • Type | Hardware clock |
| • Backup time | 6 wk; At 40 °C ambient temperature, typically |
| • Deviation per day, max. | 10 s; Typ.: 2 s |
| **Operating hours counter** | |
| • Number | 64 |
| **Clock synchronization** | |
| • supported | Yes |
| • to DP, master | Yes; via PROFIBUS CM / CP |

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| • on DP, device | Yes; via PROFIBUS CM / CP |
| • in AS, master | Yes |
| • in AS, device | Yes |
| • on Ethernet via NTP | Yes |
| **Interfaces** | |
| Number of PROFINET interfaces | 2 |
| **1. Interface** | |
| **Interface types** | |
| • RJ 45 (Ethernet) | Yes; X1 |
| • Number of ports | 2 |
| • integrated switch | Yes |
| **Protocols** | |
| • IP protocol | Yes; IPv4 |
| • PROFINET IO Controller | Yes |
| • PROFINET IO Device | Yes |
| • SIMATIC communication | Yes |
| • Open IE communication | Yes; Optionally also encrypted |
| • Web server | Yes |
| • Media redundancy | Yes |
| **PROFINET IO Controller** | |
| **Services** | |
| – Isochronous mode | Yes |
| – Direct data exchange | Yes; Requirement: IRT and isochronous mode (MRPD optional) |
| – IRT | Yes |
| – PROFIenergy | Yes; per user program |
| – Prioritized startup | Yes; Max. 32 PROFINET devices |
| – Number of connectable IO Devices, max. | 256; in total, up to 1024 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET |
| – 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; in total across all interfaces |
| – 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 |

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| **Update time for IRT** | |
| – for send cycle of 250 µs | 250 µs to 4 ms; Note: In the case of IRT with isochronous mode, the minimum update time of 375 µs of the isochronous OB is decisive |
| – 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) |
| **Update time for RT** | |
| – 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 |
| **PROFINET IO Device** | |
| **Services** | |
| – Isochronous mode | No |
| – IRT | Yes |
| – PROFIenergy | Yes; per user program |
| – Shared device | Yes |
| – Number of IO Controllers with shared device, max. | 4 |
| – activation/deactivation of I-devices | Yes; per user program |
| – Asset management record | Yes; per user program |
| **2. Interface** | |
| **Interface types** | |
| • RJ 45 (Ethernet) | Yes; X2 |
| • Number of ports | 1 |
| • integrated switch | No |
| **Protocols** | |
| • IP protocol | Yes; IPv4 |
| • PROFINET IO Controller | Yes |
| • PROFINET IO Device | Yes |
| • SIMATIC communication | Yes |
| • Open IE communication | Yes; Optionally also encrypted |
| • Web server | Yes |
| • Media redundancy | No |

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| **PROFINET IO Controller** | |
| **Services** | |
| – Isochronous mode | No |
| – Direct data exchange | No |
| – IRT | No |
| – PROFIenergy | Yes; per user program |
| – Prioritized startup | No |
| – Number of connectable IO Devices, max. | 32; in total, up to 1024 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET |
| – Number of connectable IO Devices for RT, max. | 32 |
| – of which in line, max. | 32 |
| – Number of IO Devices that can be simultaneously activated/deactivated, max. | 8; in total across all interfaces |
| – 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 |
| – PROFINET Security Class | 1 |
| **Update time for RT** | |
| – for send cycle of 1 ms | 1 ms to 512 ms |
| **PROFINET IO Device** | |
| **Services** | |
| – Isochronous mode | No |
| – IRT | No |
| – PROFIenergy | Yes; per user program |
| – Prioritized startup | No |
| – Shared device | Yes |
| – Number of IO Controllers with shared device, max. | 4 |
| – activation/deactivation of I-devices | Yes; per user program |
| – Asset management record | Yes; per user program |
| – PROFINET Security Class | SNMP Configuration and DCP Read Only |
| **Interface types** | |
| **RJ 45 (Ethernet)** | |
| • 100 Mbps | Yes |
| • Autonegotiation | Yes |
| • Autocrossing | Yes |
| • Industrial Ethernet status LED | Yes |

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| **Protocols** | |
| PROFIsafe | No |
| **Number of connections** | |
| • Number of connections, max. | 256; via integrated interfaces of the CPU and connected CPs / CMs |
| • Number of connections reserved for ES/HMI/web | 10 |
| • Number of connections via integrated interfaces | 128 |
| • Number of S7 routing paths | 16 |
| **Redundancy mode** | |
| • H-Sync forwarding | Yes |
| **Media redundancy** | |
| – Media redundancy | only via 1st interface (X1) |
| – MRP | Yes; MRP Automanager according to IEC 62439-2 Edition 2.0, MRP Manager; MRP Client |
| – MRP interconnection, supported | Yes; as MRP ring node according to IEC 62439-2 Edition 3.0 |
| – 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 |
| **SIMATIC communication** | |
| • PG/OP communication | Yes; encryption with TLS V1.3 pre-selected |
| • S7 routing | Yes |
| • Data record routing | Yes |
| • S7 communication, as server | Yes |
| • S7 communication, as client | Yes |
| • User data per job, max. | See online help (S7 communication, user data size) |
| **Open IE communication** | |
| • TCP/IP | Yes |
| – Data length, max. | 64 kbyte |
| – several passive connections per port, supported | Yes |
| • ISO-on-TCP (RFC1006) | Yes |
| – Data length, max. | 64 kbyte |
| • UDP | Yes |
| – Data length, max. | 2 kbyte; 1 472 bytes for UDP broadcast |
| – UDP multicast | Yes; max. 118 multicast circuits |
| • DHCP | Yes |
| • DNS | Yes |

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| • SNMP | Yes |
| • DCP | Yes |
| • LLDP | Yes |
| • Encryption | Yes; Optional |
| **Web server** | |
| • HTTP | Yes; Standard and user pages |
| • HTTPS | Yes; Standard and user pages |
| • web API | |
| – Number of sessions, max. | 100 |
| – number of simultaneous HTTP calls, max. | 4 |
| – HTTP request body, max. | 131 072 byte |
| **OPC UA** | |
| • Runtime license required | Yes; "Medium" license required |
| • OPC UA Client | Yes; Data Access (registered Read/Write), Method Call |
| – Application authentication | Yes |
| – Security policies | Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256 |
| – User authentication | "anonymous" or by user name & password |
| – Number of connections, max. | 10 |
| – Number of nodes of the client interfaces, recommended max. | 2 000 |
| – 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; for OPC_UA_MethodCall 100 in total (no limit per connection) |
| – 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 |

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| • OPC UA Server | Yes; data access (read, write, subscribe), method call, alarms & condition (A&C), custom address space, role-based access control |
| – Application authentication | Yes |
| – Security policies | available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256, Aes128Sha256RsaOaep, Aes256Sha256RsaPss |
| – User authentication | "anonymous" or by user name & password |
| – GDS support (certificate management) | Yes |
| – Number of sessions, max. | 48 |
| – Number of accessible variables, max. | 100 000 |
| – Number of registerable nodes, max. | 20 000 |
| – Number of subscriptions per session, max. | 50 |
| – Sampling interval, min. | 100 ms |
| – Publishing interval, min. | 100 ms |
| – Number of server methods, max. | 1 000; max. 50 concurrently running jobs each for asynchronous instructions OPC_UA_ServerMethodPre and OPC_UA_ServerMethodPost |
| – Number of inputs/outputs per server method, max. | 20 |
| – Number of monitored items, recommended max. | 4 000; for 1 s sampling interval and 1 s send interval |
| – Number of server interfaces, max. | 10 of each "Server interfaces" / "Companion specification" type and 20 of the type "Reference namespace" |
| – Number of nodes for user-defined server interfaces, max. | 30 000 |
| • Alarms and Conditions | Yes |
| – Number of program alarms | 200 |
| – Number of alarms for system diagnostics | 100 |
| **Further protocols** | |
| • MODBUS | Yes; MODBUS TCP |
| **S7 message functions** | |
| Number of login stations for message functions, max. | 64 |
| number of subscriptions, max. | 500 |
| number of tags/attributes for subscriptions, max. | 8 000 |
| Program alarms | Yes |
| Number of configurable program messages, max. | 10 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH |

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|---|---|
| Number of loadable program messages in RUN, max. | 10 000 |
| Number of simultaneously active program alarms | |
| • Number of program alarms | 1 000 |
| • Number of alarms for system diagnostics | 200 |
| • Number of alarms for motion technology objects | 160 |
| **Test commissioning functions** | |
| Joint commission (Team Engineering) | Yes; Parallel online access possible for up to 8 engineering systems |
| Status block | Yes; Up to 8 simultaneously (in total across all ES clients) |
| Single step | No |
| Number of breakpoints | 8 |
| Profiling | Yes |
| **Status/control** | |
| • Status/control variable | Yes |
| • Variables | Inputs/outputs, memory bits, DBs, distributed I/Os, timers, counters |
| • Number of variables, max. | |
| – of which status variables, max. | 200; per job |
| – of which control variables, max. | 200; per job |
| **Forcing** | |
| • Forcing | Yes |
| • Forcing, variables | Peripheral inputs/outputs |
| • Number of variables, max. | 200 |
| **Diagnostic buffer** | |
| • present | Yes |
| • Number of entries, max. | 3 200 |
| – of which powerfail-proof | 500 |
| **Traces** | |
| • Number of configurable Traces | 4 |
| • Memory size per trace, max. | 512 kbyte |
| **Interrupts/diagnostics/status information** | |
| **Diagnostics indication LED** | |
| • RUN/STOP LED | Yes |
| • ERROR LED | Yes |
| • MAINT LED | Yes |
| • STOP ACTIVE LED | Yes |
| • Connection display LINK TX/RX | Yes |

| Article number | 6ES7515-2AN03-0AB0 |
|---|---|
| **Supported technology objects** | |
| Motion Control | Yes; Note: The number of technology objects affects the cycle time of the PLC program; selection guide via the TIA Selection Tool |
| • Number of available Motion Control resources for technology objects | 2 400 |
| • Required Motion Control resources | |
| – per speed-controlled axis | 40 |
| – per positioning axis | 80 |
| – per synchronous axis | 160 |
| – per external encoder | 80 |
| – per output cam | 20 |
| – per cam track | 160 |
| – per probe | 40 |
| • Positioning axis | |
| – Number of positioning axes at motion control cycle of 4 ms (typical value) | 11 |
| – Number of positioning axes at motion control cycle of 8 ms (typical value) | 20 |
| Controller | |
| • PID_Compact | Yes; Universal PID controller with integrated optimization |
| • PID_3Step | Yes; PID controller with integrated optimization for valves |
| • PID-Temp | Yes; PID controller with integrated optimization for temperature |
| Counting and measuring | |
| • High-speed counter | Yes |
| **Standards, approvals, certificates** | |
| Suitable for safety functions | No |
| **Security** | |
| PROFINET Security Class | 1 |
| signed firmware update | Yes |
| Secure Boot | Yes |
| safely removing data | Yes |
| **Ambient conditions** | |
| **Ambient temperature during operation** | |
| • horizontal installation, min. | -30 °C; No condensation |
| • horizontal installation, max. | 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off |
| • vertical installation, min. | -30 °C; No condensation |
| • vertical installation, max. | 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off |

| Article number | 6ES7515-2AN03-0AB0 |
|---|---|
| **Ambient temperature during storage/transportation** | |
| • min. | -40 °C |
| • max. | 70 °C |
| **Altitude during operation relating to sea level** | |
| • Installation altitude above sea level, max. | 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual |
| **Configuration** | |
| **Programming** | |
| **Programming language** | |
| – LAD | Yes |
| – FBD | Yes |
| – STL | Yes |
| – SCL | Yes |
| – CFC | Yes |
| – GRAPH | Yes |
| **Know-how protection** | |
| • User program protection/password protection | Yes |
| • Copy protection | Yes |
| • Block protection | Yes |
| **Access protection** | |
| • protection of confidential configuration data | Yes |
| • Password for display | Yes |
| • Protection level: Write protection | Yes |
| • Protection level: Read/write protection | Yes |
| • Protection level: Write protection for Failsafe | No |
| • Protection level: Complete protection | Yes |
| • User administration | Yes; device-wide and centralized |
| • Number of users | 100 |
| • Number of groups | 100 |
| • Number of roles | 50 |
| **Cycle time monitoring** | |
| • lower limit | adjustable minimum cycle time |
| • upper limit | adjustable maximum cycle time |

| Article number | 6ES7515-2AN03-0AB0 |
|---|---|
| **Dimensions** | |
| Width | 70 mm |
| Height | 147 mm |
| Depth | 129 mm |
| **Weights** | |
| Weight, approx. | 456 g |

## General technical specifications

You can find information on the general technical specifications, such as standards and approvals, electromagnetic compatibility, protection class, etc., in the S7-1500, ET 200MP (https://support.industry.siemens.com/cs/us/en/view/59191792) system manual.