Data sheet

6ES7515-2TN03-0AB0

Siemens EcoTech



SIMATIC S7-1500T, CPU 1515T-2 PN, central processing unit with 1.5 MB work memory for program and 4.5 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET RT, 6 ns bit performance, SIMATIC Memory Card required - - - approvals and certificates according to entry 109816881 at support.industry.siemens.com to be considered! - -

Figure similar

Figure similar			
General information			
Product type designation	CPU 1515T-2 PN		
HW functional status	FS05		
Firmware version	V4.0		
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 $375~\mu s$ (distributed) and 1 ms (central)		
SysLog	Yes		
Engineering with			
STEP 7 TIA Portal configurable/integrated from version	V20 (FW V4.0) / V18 (FW V3.0) or higher; configurable with older TIA Portal versions as 6ES7515-2TM01-0AB0		
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		
l²t	0.6 A²·s		
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)	1.5 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
 Number of process alarm OBs 	50
 Number of DPV1 alarm OBs 	3
 Number of isochronous mode OBs 	2
 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
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	

adiustable	Voc
— adjustable	Yes
Pata areas and their retentivity	C40 library in Artaly associated as the Cartaly Cartan
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; In total; available retentive memory for bit memories, timers, counters, DBs, and technology data (axes): 472 KB
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
ddress 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	o ribyto
Number of subprocess images, max.	32
lardware configuration	32
	CA. A distributed I/O system is also as desired and subject to the intermedian of
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
ime 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	16
Clock synchronization	
• supported	Yes
• to DP, master	Yes; via PROFIBUS CM / CP
• on DP, device	Yes; via PROFIBUS CM / CP
• in AS, master	Yes
• in AS, device	Yes
on Ethernet via NTP	Yes
nterfaces	
Number of PROFINET interfaces	2
. Interface	
. Interface Interface types	

Number of ports	2		
integrated switch	Yes		
Protocols	V 19.4		
• 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		
— PROFlenergy	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		
— PROFINET Security Class	1		
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 μ s: 375 μ s, 625 μ s 875 μ s)		
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		
— PROFlenergy	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		
— PROFINET Security Class	SNMP Configuration and DCP Read Only		
2. Interface			
Interface types			
• RJ 45 (Ethernet)	Yes; X2		
Number of ports	1		
integrated switch	No		
Protocols	110		
IP protocol Yes; IPv4			
PROFINET IO Controller	Yes		
- FROT INET TO CONTROLLED			

PROFINET IO Device	Yes		
 SIMATIC communication 	Yes		
Open IE communication	Yes; Optionally also encrypted		
Web server	Yes		
Media redundancy	No		
PROFINET IO Controller			
Services			
— Isochronous mode	No		
— Direct data exchange	No		
— IRT	No		
— PROFlenergy	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		
— PROFlenergy	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	Shirir Comiguration and DOI Read Only		
RJ 45 (Ethernet)	V		
• 100 Mbps	Yes		
 Autonegotiation 	Yes		
Autocrossing	Yes		
Industrial Ethernet status LED	Yes		
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— MRPD	Yes; as MRP ring node according to IEC 62439-2 Edition 3.0 Yes; Requirement: IRT		
Switchover time on line break, typ.	200 ms; For MRP, bumpless for MRPD		
Number of stations in the ring, max.	50		
— Number of stations in the ring, max. SIMATIC communication			
	Vac: approprian with TLS V4.2 are collected		
 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	
• SNMP	Yes	
• DCP	Yes	
• LLDP	Yes	
• Encryption	Yes; Optional	
Web server	V 0 1 1 1 1	
• 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_I 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, 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 mg	
— Publishing interval, min.	100 ms	
 Number of server methods, max. 	50; max. 20 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	
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	
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		
Troquiled Motion Control 103001003		

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		
 Number of available Extended Motion Control resources for technology objects 	120		
Required Extended Motion Control resources			
— per cam (1 000 points and 50 segments)	2		
— per cam (10 000 points and 50 segments)	20		
— per cam (50 points and 600 segments)	2		
— per cam (50 points and 6 000 segments)	20		
— for each set of kinematics	30		
— per Interpreter	60		
Per leading axis proxy	3		
	3		
• kinematics functions	V 22 1 1 1		
kinematics with up to 4 interpolating axes	Yes; max. 3D + orientation		
 kinematics with 5 or more interpolating axes 	No 		
 user-defined kinematics 	No		
— SIMATIC Safe Kinematics	No		
 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			
Counting and measuring • High-speed counter	Yes		
High-speed counter	Yes		
High-speed counter Standards, approvals, certificates			
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP)	Yes Siemens EcoTech Yes		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available	Siemens EcoTech		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint	Siemens EcoTech		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential	Siemens EcoTech Yes		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2	Siemens EcoTech		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2	Siemens EcoTech Yes 100 kg		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle)	Siemens EcoTech Yes 100 kg 25.8 kg		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq]	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg -30 °C; No condensation 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min.	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max.	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg -30 °C; No condensation 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min.	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg -30 °C; No condensation 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off -30 °C; No condensation 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max.	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg -30 °C; No condensation 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off -30 °C; No condensation 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • vertical installation, max. Ambient temperature during storage/transportation	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg -30 °C; No condensation 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off -30 °C; No condensation 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, min. • vertical installation, min. • vertical installation, max. Ambient temperature during storage/transportation • min.	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg -30 °C; No condensation 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off -30 °C; No condensation 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off -40 °C		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. Ambient temperature during storage/transportation • min. • max.	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg -30 °C; No condensation 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off -30 °C; No condensation 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off -40 °C		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. Ambient temperature during storage/transportation • min. • max. Altitude during operation relating to sea level	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg -30 °C; No condensation 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off -30 °C; No condensation 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off -40 °C 70 °C		
High-speed counter Standards, approvals, certificates Siemens Eco Profile (SEP) Recycler Guide available Ecological footprint Global warming potential — global warming potential, (total) [CO2 eq] — global warming potential, (during production) [CO2 eq] — global warming potential, (during operation) [CO2 eq] — global warming potential, (after end of life cycle) [CO2 eq] Ambient conditions Ambient temperature during operation • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. Ambient temperature during storage/transportation • min. • max. Altitude during operation relating to sea level • Installation altitude above sea level, max.	Siemens EcoTech Yes 100 kg 25.8 kg 75.2 kg -0.83 kg -30 °C; No condensation 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off -30 °C; No condensation 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off -40 °C 70 °C		
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	_	Version	Classification
Classifications			
Weight, approx.	456 g		
V eights			
Depth	129 mm		
Height	147 mm		
Width	70 mm		
Dimensions			
• upper limit	adjustable maximum cycle time		
• lower limit	adjustable minimum cycle time		
programming / cycle time monitoring / header			
Number of roles	50		
Number of groups	100		
Number of users	100		
User administration	Yes; device-wide and centralized		
Protection level: Complete protection	Yes		
Protection level: Write protection for Failsafe	No		
Protection level: Read/write protection	Yes		
Protection level: Write protection	Yes		
Password for display	Yes		
protection of confidential configuration data	Yes		
Access protection			
Block protection	Yes		
Copy protection	Yes		
User program protection/password protection	Yes		
Know-how protection	100		
— GRAPH	Yes		
— CFC	Yes		
— SCL	Yes		
— STL	Yes		

	Version	Classification
eClass	14	27-24-22-07
eClass	12	27-24-22-07
eClass	9.1	27-24-22-07
eClass	9	27-24-22-07
eClass	8	27-24-22-07
eClass	7.1	27-24-22-07
eClass	6	27-24-22-07
ETIM	10	EC000236
ETIM	9	EC000236
ETIM	8	EC000236
ETIM	7	EC000236
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval





Miscellaneous

Manufacturer Declaration



Miscellaneous

General Product Approval

For use in hazardous locations



<u>KC</u>

TUEV

<u>FM</u>



CCC-Ex

For use in hazardous locations

Test Certificates

<u>FM</u>



IECEx



Miscellaneous

CCC-Ex

Type Test Certificates/Test Report

Maritime application









NK / Nippon Kaiji Kyokai



Maritime application

other

Environment

CCS (China Classification Society)



PROFINET





last modified:

7/17/2025