



SIMATIC S7-1500T, CPU 1517T-3 PN, central processing unit with 6 MB work memory for program and 50 MB for data, 1st interface: PROFINET IRT with 2-port switch, 2nd interface: PROFINET IRT, with 2-port switch, 3rd interface: PROFINET basic services 0.6 ns bit performance, SIMATIC Memory Card required

General information	
Product type designation	CPU 1517T-3 PN
HW functional status	FS01
Firmware version	V4.0
<ul style="list-style-type: none"> FW update possible 	Yes
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
<ul style="list-style-type: none"> Isochronous mode 	Yes; Distributed and central; with minimum OB 6x cycle of 250 μ s (distributed) and 1 ms (central)
<ul style="list-style-type: none"> SysLog 	Yes
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version 	V20 (FW V4.0)
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	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	5 ms
<ul style="list-style-type: none"> Repeat rate, min. 	1/s
Input current	
Current consumption (rated value)	1.07 A
Current consumption, max.	1.5 A
Inrush current, max.	1.5 A; Rated value
I^2t	0.4 A ² ·s
Power	
Infeed power to the backplane bus	12 W
Power consumption from the backplane bus (balanced)	30 W
Power loss	
Power loss, typ.	13.6 W
Memory	
Number of slots for SIMATIC memory card	1
SIMATIC memory card required	Yes

Work memory	
• integrated (for program)	6 Mbyte
• integrated (for data)	50 Mbyte
Load memory	
• Plug-in (SIMATIC Memory Card), max.	32 Gbyte
Backup	
• maintenance-free	Yes
CPU processing times	
for bit operations, typ.	0.6 ns
for word operations, typ.	1.3 ns
for fixed point arithmetic, typ.	1.3 ns
for floating point arithmetic, typ.	3.8 ns
CPU-blocks	
Number of elements (total)	20 000; 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.	16 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 100 µs
• Number of process alarm OBs	50
• Number of DPV1 alarm OBs	3
• Number of isochronous mode OBs	3
• 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	
— adjustable	Yes
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	2.5 Mbyte
Extended retentive data area (incl. timers, counters, flags), max.	50 Mbyte; When using PS 6 0W 24/48/60 V DC HF
Flag	

<ul style="list-style-type: none"> • Size, max. 	16 kbyte
<ul style="list-style-type: none"> • Number of clock memories 	8; 8 clock memory bit, grouped into one clock memory byte
Data blocks	
<ul style="list-style-type: none"> • Retentivity adjustable 	Yes
<ul style="list-style-type: none"> • Retentivity preset 	No
Local data	
<ul style="list-style-type: none"> • per priority class, max. 	64 kbyte; max. 16 KB per block
Address area	
Number of IO modules	16 384; max. number of modules / submodules
I/O address area	
<ul style="list-style-type: none"> • Inputs 	32 kbyte; All inputs are in the process image
<ul style="list-style-type: none"> • Outputs 	32 kbyte; All outputs are in the process image
per integrated IO subsystem	
— Inputs (volume)	32 kbyte
— Outputs (volume)	32 kbyte
per CM/CP	
— Inputs (volume)	8 kbyte
— Outputs (volume)	8 kbyte
Subprocess images	
<ul style="list-style-type: none"> • 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	
<ul style="list-style-type: none"> • Via CM 	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
Number of IO Controllers	
<ul style="list-style-type: none"> • integrated 	2
<ul style="list-style-type: none"> • Via CM 	8; A maximum of 8 CMs/CPs (PROFIBUS, PROFINET, Ethernet) can be inserted in total
Rack	
<ul style="list-style-type: none"> • Modules per rack, max. 	32; CPU + 31 modules
<ul style="list-style-type: none"> • Number of lines, max. 	1
PtP CM	
<ul style="list-style-type: none"> • Number of PtP CMs 	the number of connectable PtP CMs is only limited by the number of available slots
Time of day	
Clock	
<ul style="list-style-type: none"> • Type 	Hardware clock
<ul style="list-style-type: none"> • Backup time 	6 wk; At 40 °C ambient temperature, typically
<ul style="list-style-type: none"> • Deviation per day, max. 	10 s; Typ.: 2 s
Operating hours counter	
<ul style="list-style-type: none"> • Number 	16
Clock synchronization	
<ul style="list-style-type: none"> • supported 	Yes
<ul style="list-style-type: none"> • to DP, master 	Yes; via PROFIBUS CM / CP
<ul style="list-style-type: none"> • on DP, device 	Yes; via PROFIBUS CM / CP
<ul style="list-style-type: none"> • in AS, master 	Yes
<ul style="list-style-type: none"> • in AS, device 	Yes
<ul style="list-style-type: none"> • on Ethernet via NTP 	Yes
Interfaces	
Number of PROFINET interfaces	3
Number of PROFIBUS interfaces	0
1. Interface	
Interface types	
<ul style="list-style-type: none"> • RJ 45 (Ethernet) 	Yes; X1
<ul style="list-style-type: none"> • Number of ports 	2
<ul style="list-style-type: none"> • integrated switch 	Yes
Protocols	
<ul style="list-style-type: none"> • IP protocol 	Yes; IPv4
<ul style="list-style-type: none"> • 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
— PROFINergy	Yes; per user program
— Prioritized startup	Yes; Max. 32 PROFINET devices
— Number of connectable IO Devices, max.	512; in total, up to 1661 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET
— Of which IO devices with IRT, max.	64; with DFP: 256 IO devices in 8 DFP groups
— Number of connectable IO Devices for RT, max.	512
— of which in line, max.	512
— 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
— 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
— PROFINergy	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	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
— PROFINergy	Yes; per user program
— Prioritized startup	No
— Number of connectable IO Devices, max.	512; in total, up to 1661 distributed I/O devices can be connected via AS-i, PROFIBUS or PROFINET
— Of which IO devices with IRT, max.	64; with DFP: 256 IO devices in 8 DFP groups
— Number of connectable IO Devices for RT, max.	512
— of which in line, max.	512
— 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
— 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
— PROFINergy	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

3. Interface

Interface types	
• RJ 45 (Ethernet)	Yes; X3
• Number of ports	1
• integrated switch	No

Protocols	
• IP protocol	Yes; IPv4
• PROFINET IO Controller	No
• PROFINET IO Device	No
• SIMATIC communication	Yes
• Open IE communication	Yes; Optionally also encrypted
• Web server	Yes

Interface types	
RJ 45 (Ethernet)	
• 100 Mbps	Yes
• 1000 Mbps	Yes; only possible at the X3 interface of the CPU
• Autonegotiation	Yes
• Autocrossing	Yes
• Industrial Ethernet status LED	Yes

Protocols

PROFIsafe	No
Number of connections	
<ul style="list-style-type: none"> • Number of connections, max. • Number of connections reserved for ES/HMI/web • Number of connections via integrated interfaces • Number of S7 routing paths 	<p>320; via integrated interfaces of the CPU and connected CPs / CMs</p> <p>10</p> <p>288</p> <p>64</p>
Redundancy mode	
<ul style="list-style-type: none"> • H-Sync forwarding 	Yes
Media redundancy	
<ul style="list-style-type: none"> — Media redundancy — MRP — MRP interconnection, supported — MRPD — Switchover time on line break, typ. — Number of stations in the ring, max. 	<p>via the X1 or X2 interface</p> <p>Yes; MRP Automanager according to IEC 62439-2 Edition 2.0, MRP Manager; MRP Client</p> <p>Yes; as MRP ring node according to IEC 62439-2 Edition 3.0</p> <p>Yes; Requirement: IRT</p> <p>200 ms; For MRP, bumpless for MRPD</p> <p>50</p>
SIMATIC communication	
<ul style="list-style-type: none"> • PG/OP communication • S7 routing • Data record routing • S7 communication, as server • S7 communication, as client • User data per job, max. 	<p>Yes; encryption with TLS V1.3 pre-selected</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>See online help (S7 communication, user data size)</p>
Open IE communication	
<ul style="list-style-type: none"> • TCP/IP <ul style="list-style-type: none"> — Data length, max. — several passive connections per port, supported • ISO-on-TCP (RFC1006) <ul style="list-style-type: none"> — Data length, max. • UDP <ul style="list-style-type: none"> — Data length, max. — UDP multicast • DHCP • DNS • SNMP • DCP • LLDP • Encryption 	<p>Yes</p> <p>64 kbyte</p> <p>Yes</p> <p>Yes</p> <p>64 kbyte</p> <p>Yes</p> <p>2 kbyte; 1 472 bytes for UDP broadcast</p> <p>Yes; max. 128 multicast circuits</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes</p> <p>Yes; Optional</p>
Web server	
<ul style="list-style-type: none"> • HTTP • HTTPS • web API <ul style="list-style-type: none"> — Number of sessions, max. — number of simultaneous HTTP calls, max. — HTTP request body, max. 	<p>Yes; Standard and user pages</p> <p>Yes; Standard and user pages</p> <p>200</p> <p>4</p> <p>131 072 byte</p>
OPC UA	
<ul style="list-style-type: none"> • Runtime license required • OPC UA Client <ul style="list-style-type: none"> — Application authentication — Security policies — User authentication — Number of connections, max. — Number of nodes of the client interfaces, recommended max. — Number of elements for one call of OPC-UA_NodeGetHandleList/OPC-UA_ReadList/OPC-UA_WriteList, max. — Number of elements for one call of OPC-UA_NameSpaceGetIndexList, max. — Number of elements for one call of OPC-UA_MethodGetHandleList, max. — Number of simultaneous calls of the client 	<p>Yes; "Large" license required</p> <p>Yes; Data Access (registered Read/Write), Method Call</p> <p>Yes</p> <p>Available security policies: None, Basic128Rsa15, Basic256Rsa15, Basic256Sha256</p> <p>"anonymous" or by user name & password</p> <p>40</p> <p>5 000</p> <p>300</p> <p>20</p> <p>100</p> <p>1</p>

instructions for session management, per connection, max.	
— 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.	64
— Number of accessible variables, max.	200 000
— Number of registerable nodes, max.	50 000
— Number of subscriptions per session, max.	50
— Sampling interval, min.	10 ms
— Publishing interval, min.	10 ms
— Number of server methods, max.	4 000; max. 100 concurrently running jobs each for asynchronous instructions OPC-UA_ServerMethodPre (V1.1) and OPC-UA_ServerMethodPost (V1.1)
— Number of inputs/outputs per server method, max.	20
— Number of monitored items, recommended max.	50 000; 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.	100 000
● Alarms and Conditions	Yes
— Number of program alarms	400
— Number of alarms for system diagnostics	200
Further protocols	
● MODBUS	Yes; MODBUS TCP
S7 message functions	
Number of login stations for message functions, max.	64
number of subscriptions, max.	750
number of tags/attributes for subscriptions, max.	120 000
Program alarms	Yes
Number of configurable program messages, max.	20 000; Program messages are generated by the "Program_Alarm" block, ProDiag or GRAPH
Number of loadable program messages in RUN, max.	20 000
Number of simultaneously active program alarms	
● Number of program alarms	2 000
● Number of alarms for system diagnostics	1 000
● Number of alarms for motion technology objects	960
Test commissioning functions	
Joint commission (Team Engineering)	Yes; Parallel online access possible for up to 10 engineering systems
Status block	Yes; Up to 16 simultaneously (in total across all ES clients)
Single step	No
Number of breakpoints	20
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	

<ul style="list-style-type: none"> • present 	Yes
<ul style="list-style-type: none"> • Number of entries, max. 	3 200
<ul style="list-style-type: none"> — of which powerfail-proof 	1 000
Traces	
<ul style="list-style-type: none"> • Number of configurable Traces 	8
<ul style="list-style-type: none"> • Memory size per trace, max. 	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	
<ul style="list-style-type: none"> • RUN/STOP LED 	Yes
<ul style="list-style-type: none"> • ERROR LED 	Yes
<ul style="list-style-type: none"> • MAINT LED 	Yes
<ul style="list-style-type: none"> • STOP ACTIVE LED 	Yes
<ul style="list-style-type: none"> • 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
<ul style="list-style-type: none"> • Number of available Motion Control resources for technology objects 	20 480
<ul style="list-style-type: none"> • Required Motion Control resources 	
<ul style="list-style-type: none"> — per speed-controlled axis 	40
<ul style="list-style-type: none"> — per positioning axis 	80
<ul style="list-style-type: none"> — per synchronous axis 	160
<ul style="list-style-type: none"> — per external encoder 	80
<ul style="list-style-type: none"> — per output cam 	20
<ul style="list-style-type: none"> — per cam track 	160
<ul style="list-style-type: none"> — per probe 	40
<ul style="list-style-type: none"> • Number of available Extended Motion Control resources for technology objects 	720
<ul style="list-style-type: none"> • Required Extended Motion Control resources 	
<ul style="list-style-type: none"> — per cam (1 000 points and 50 segments) 	2
<ul style="list-style-type: none"> — per cam (10 000 points and 50 segments) 	20
<ul style="list-style-type: none"> — per cam (50 points and 600 segments) 	2
<ul style="list-style-type: none"> — per cam (50 points and 6 000 segments) 	20
<ul style="list-style-type: none"> — for each set of kinematics 	30
<ul style="list-style-type: none"> — per Interpreter 	60
<ul style="list-style-type: none"> — Per leading axis proxy 	3
<ul style="list-style-type: none"> • kinematics functions 	
<ul style="list-style-type: none"> — kinematics with up to 4 interpolating axes 	Yes; max. 3D + orientation
<ul style="list-style-type: none"> — kinematics with 5 or more interpolating axes 	No
<ul style="list-style-type: none"> — user-defined kinematics 	Yes
<ul style="list-style-type: none"> — SIMATIC Safe Kinematics 	No
<ul style="list-style-type: none"> • Positioning axis 	
<ul style="list-style-type: none"> — Number of positioning axes at motion control cycle of 4 ms (typical value) 	125
<ul style="list-style-type: none"> — Number of positioning axes at motion control cycle of 8 ms (typical value) 	200
Controller	
<ul style="list-style-type: none"> • PID_Compact 	Yes; Universal PID controller with integrated optimization
<ul style="list-style-type: none"> • PID_3Step 	Yes; PID controller with integrated optimization for valves
<ul style="list-style-type: none"> • PID-Temp 	Yes; PID controller with integrated optimization for temperature
Counting and measuring	
<ul style="list-style-type: none"> • High-speed counter 	Yes
Standards, approvals, certificates	
Ecological footprint	
Global warming potential	
<ul style="list-style-type: none"> — global warming potential, (total) [CO2 eq] 	317 kg
<ul style="list-style-type: none"> — global warming potential, (during production) [CO2 eq] 	69.3 kg
<ul style="list-style-type: none"> — global warming potential, (during operation) [CO2 eq] 	255 kg
<ul style="list-style-type: none"> — global warming potential, (after end of life cycle) [CO2 eq] 	-7.02 kg
product functions / security / header	

PROFINET Security Class	1
signed firmware update	Yes
Secure Boot	Yes
safely removing data	Yes

Ambient conditions

Ambient temperature during operation	
<ul style="list-style-type: none"> horizontal installation, min. horizontal installation, max. vertical installation, min. vertical installation, max. 	0 °C 60 °C; Display: 50 °C, at an operating temperature of typically 50 °C, the display is switched off 0 °C 40 °C; Display: 40 °C, at an operating temperature of typically 40 °C, the display is switched off
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> min. max. 	-40 °C 70 °C
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual

configuration / header

configuration / programming / header

Programming language	
— LAD	Yes
— FBD	Yes
— STL	Yes
— SCL	Yes
— CFC	Yes
— GRAPH	Yes

Know-how protection

<ul style="list-style-type: none"> User program protection/password protection Copy protection Block protection 	Yes Yes Yes
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Access protection

<ul style="list-style-type: none"> protection of confidential configuration data Password for display Protection level: Write protection Protection level: Read/write protection Protection level: Write protection for Failsafe Protection level: Complete protection User administration Number of users Number of groups Number of roles 	Yes Yes Yes Yes No Yes Yes; device-wide and centralized 100 100 50
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programming / cycle time monitoring / header

<ul style="list-style-type: none"> lower limit upper limit 	adjustable minimum cycle time adjustable maximum cycle time
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Dimensions

Width	175 mm
Height	147 mm
Depth	129 mm

Weights

Weight, approx.	1 499 g
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Classifications

	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	9	EC000236
ETIM	8	EC000236
ETIM	7	EC000236

Approvals / Certificates

General Product Approval

[Manufacturer Declaration](#)



[KC](#)

[Miscellaneous](#)



General Product Approval

EMV

For use in hazardous locations



[KC](#)



[CCC-Ex](#)

[EM](#)



For use in hazardous locations

Marine / Shipping

other

Environment



[Miscellaneous](#)



[PROFINET](#)



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