SIEMENS

Data sheet

6ES7677-2SB42-0GL0



Figure similar

SIMATIC ET 200SP Open Controller, CPU 1515SP PC2 F + HMI 512PT, 8 GB RAM (basic device 6ES7677-2DB40-0AA0), 128 GB CFast with Windows 10 IoT Enterprise LTSC 2019 64-bit, S7-1500 Failsafe Software Controller CPU 1505SP F V2x and WinCC Runtime Advanced V17 preinstalled, with 512 PowerTags license; interfaces: 1x slot CFast, 1x slot SD/MMC, 1x connection for ET 200SP BusAdapter PROFINET, 1x 10/100/1000 Mbps Ethernet, 2x USB 3.0, 2x USB 2.0, 1x DisplayPort; documentation on CFast,

General information		
Product type designation	CPU 1515SP PC2 F	
HW functional status	from FS04	
Firmware version	V20.8	
Engineering with		
 STEP 7 TIA Portal configurable/integrated from version 	V16	
Installed software		
 Visualization 	WinCC Runtime Advanced V16	
Control	S7-1500 Software Controller CPU 1505SP F	
Configuration control		
via dataset	Yes	
Control elements		
Mode selector switch	1	
Supply voltage		
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	
Input current		
Current consumption (rated value)	1.8 A; Full processor load, incl. ET 200SP modules and using USB	
Current consumption (in no-load operation), typ.	0.5 A	
Current consumption, max.	2.9 A	
l²t	0.426 A²-s; with starting current inrush	
Power		
Active power input, max.	55 W; incl. ET 200SP modules and using USB	
Infeed power to the backplane bus	8.75 W	
Power loss		
Power loss, typ.	16 W	
Processor		
Processor type	Intel Atom E3940, 1.6 GHz, 4 cores	
Memory		
Type of memory	DDR3L	
Main memory	8 GB RAM	
CFast memory card	Yes; 128 GB flash memory	
SIMATIC memory card required	No	
Work memory		
integrated (for program)	1.5 Mbyte	
integrated (for data)	5 Mbyte	

integrated (for CPU function library of CPU Runtime)	20 Mhuta	
Load memory	20 Mbyte	
• integrated (on PC mass storage)	320 Mbyte	
Backup	320 Nibyte	
with UPS	Voc: all moment group declared retentive	
	Yes; all memory areas declared retentive Yes	
with non-volatile memory CPU-blocks	165	
	COOC to addition to blooks such as DDs. FDs and FOs. UDTs. slabel	
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.	5 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	
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	
Nesting depth		
per priority class	24; Up to 8 possible for F-blocks	
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.	410 kbyte; For storage in NVRAM; for storage in mass storage 5 242 020 bytes	
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	

Address area			
Number of IO modules	8 192		
I/O address area			
• Inputs	32 kbyte; All inputs are in the process image		
• Outputs	32 kbyte; All outputs are in the process image		
Subprocess images	32 kbyte, All outputs are in the process image		
Number of subprocess images, max.	32		
Hardware configuration	02		
	V		
Integrated power supply	Yes		
Number of distributed IO systems	20		
Number of DP masters			
• Via CM	1		
Number of IO Controllers			
via PC interfaces	1		
Rack			
 Modules per rack, max. 	64; CPU 1515SP PC + 64 modules + server module		
 Quantity of operable ET 200SP modules, max. 	64		
 Quantity of operable ET 200AL modules, max. 	16		
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		
 Hardware clock (real-time) 	Yes; Resolution: 1 s		
Backup time	6 wk; At 40 °C ambient temperature, typically		
 Deviation per day, max. 	10 s; Typ.: 2 s		
Clock synchronization			
• supported	Yes		
• to DP, master	Yes		
● on Ethernet via NTP	Yes		
 on Windows clock, device 	Yes		
Interfaces			
Number of industrial Ethernet interfaces	2		
Number of PROFINET interfaces	1		
Number of PROFIBUS interfaces	1		
Number of RS 485 interfaces	1; Via CM DP module		
Number of USB interfaces	4; 2x USB 2.0, 2x USB 3.0 on front side		
Number of SD card slots	4, 2x 03b 2.0, 2x 03b 3.0 0H Hollt side		
Video interfaces	A. Director Don't		
Graphics interface	1x DisplayPort		
1. Interface	PROFILIES		
Interface type	PROFINET		
automatic detection of transmission rate	Yes		
Autonegotiation	Yes		
Autocrossing	Yes		
Number of connections	88		
Interface types			
• RJ 45 (Ethernet)	Yes; Via BusAdapter BA 2x RJ45		
 Transmission rate, max. 	100 Mbit/s		
 Industrial Ethernet status LED 	Yes		
Number of ports	2		
• integrated switch	Yes		
BusAdapter (PROFINET)	Yes; Compatible BusAdapter: BA 2x RJ45, BA 2x FC, BA 2x SCRJ (from FS03, V2.2), BA SCRJ / RJ45 (from FS03, V3.1), BA SCRJ / FC (from FS03, V3.1), BA 2x LC (from FS03, V3.3), BA LC / RJ45 (from FS03, V3.3), BA LC / FC (from FS03, V3.3)		
Protocols			
PROFINET IO Controller	Yes		
PROFINET IO Device	Yes		
SIMATIC communication	Yes		
Similar Somming Control	. 30		

Open IE communication	Yes	
Web server	Yes	
PROFINET IO Controller		
Services		
— Isochronous mode	Yes	
— shortest clock pulse	500 μs	
— IRT	Yes	
— PROFlenergy	Yes	
Prioritized startup		
— i nonuzed 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, max. 	128	
 Of which IO devices with IRT, max. 	64	
— of which in line, max.	64	
 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	
 IO Devices changing during operation (partner ports), supported 	Yes	
 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	
Update time for IRT		
— 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 $\mu s)$	
Update time for RT		
— 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	
Address area		
— Inputs, max.	8 kbyte	
— Outputs, max.	8 kbyte	
PROFINET IO Device		
Services		
— Isochronous mode	No	
— shortest clock pulse	500 μs	
— IRT	Yes	
— PROFlenergy	Yes	
— Prioritized startup	Yes	
— Shared device	Yes	
Number of IO Controllers with shared device, max.	4	
Asset management record	Yes	
2. Interface		
Interface type	Integrated Ethernet interface	
automatic detection of transmission rate	Yes	
Autonegotiation	Yes	
Autoriossing	Yes	
Interface types	100	
-	Ves: Integrated	
RJ 45 (Ethernet) Transmission rate, may	Yes; Integrated	
— Transmission rate, max.	1 000 Mbit/s	
— Industrial Ethernet status LED	No	
Number of ports	1	
3. Interface		
Interface type	PROFIBUS with CM DP	
Number of connections	44	
Interface types		

DO 405	V	
• RS 485	Yes	
Protocols	V	
PROFIBUS DP master	Yes	
PROFIBUS DP device	Yes	
SIMATIC communication	Yes	
PROFIBUS DP master		
max. number of DP devices	125	
Services		
— Equidistance	No	
— Isochronous mode	No	
Address area		
— Inputs, max.	8 kbyte	
— Outputs, max.	8 kbyte	
Interface types		
RS 485		
Transmission rate, max.	12 Mbit/s	
Protocols		
PROFIsafe	Yes; V2.4 / V2.6	
Number of connections		
 Number of connections, max. 	88	
 Number of connections reserved for ES/HMI/web 	10	
 Number of S7 routing paths 	16	
Redundancy mode		
Media redundancy		
— MRP	Yes	
— MRPD	Yes	
 Switchover time on line break, typ. 	200 ms	
 Number of stations in the ring, max. 	50	
SIMATIC communication		
 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	
Open IE communication		
• TCP/IP	Yes	
— Data length, max.	64 kbyte	
• ISO-on-TCP (RFC1006)	Yes	
— Data length, max.	64 kbyte	
• UDP	Yes	
— Data length, max.	2 048 byte	
• SNMP	Yes	
• DCP	Yes	
• LLDP	Yes	
Web server		
• HTTP	Yes; Via Windows and PROFINET interface	
• HTTPS	Yes; Via Windows and PROFINET interface	
OPC UA		
Runtime license required	Yes; "Small" license required	
OPC UA Client	Yes; From SW CPU 1505SP V2.6	
OPC UA Server	Yes; Data access (read, write, subscribe), runtime license required	
Application authentication	Yes; Available security policies: None, Basic128Rsa15, Basic256Rsa15,	
Security policies	Basic256Sha256 Yes; Available security policies: None, Basic128Rsa15, Basic256Rsa15,	
	Basic256Sha256	
— User authentication	Yes; "anonymous" or by user name & password	
Further protocols		
MODBUS	Yes; MODBUS TCP	
S7 message functions		
Number of login stations for message functions, max.	32	
Program alarms	Yes	

	_	
Number of configurable program messages, max.	10 000	
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	
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	
Single step	No	
Number of breakpoints	8	
Status/control		
 Status/control variable 	Yes	
 Variables 	Inputs, outputs, memory bits, DB, times, counters	
 Number of variables, max. 		
of which status variables, max.	200	
— of which control variables, max.	200	
Forcing		
• Forcing	Yes	
 Forcing, variables 	Inputs, outputs	
Number of variables, max.	200	
Diagnostic buffer		
• present	Yes	
 Number of entries, max. 	1 000	
— of which powerfail-proof	300	
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	
Supported technology objects		
Motion Control	Yes	
 Number of available Motion Control resources for 	2 400	
technology objects		
Required Motion Control resources		
— per speed-controlled axis	40; per axis	
— per positioning axis	80; per axis	
— per synchronous axis	160; per axis	
— per external encoder	80; per external encoder	
— per output cam	20; per cam	
— per cam track	160; per cam track	
— per probe	40; per probe	
Positioning axis	-	
 Number of positioning axes at motion control cycle of 4 ms (typical value) 	15	
Number of positioning axes at motion control cycle	30	
of 8 ms (typical value)		
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		
CE mark	Yes	
CSA approval	Yes	
cULus	Yes	
FM approval	Yes	
RCM (formerly C-TICK)	Yes	

Highest safety class achievable in safety mode			
 Performance level according to ISO 13849-1 	PLe		
• SIL acc. to IEC 61508	SIL 3		
Probability of failure (for service life of 20 years and repair time	of 100 hours)		
 Low demand mode: PFDavg in accordance with SIL3 	< 2.00E-05		
 High demand/continuous mode: PFH in accordance with SIL3 	< 1.00E-09 1/h		
Ambient conditions			
Ambient temperature during operation			
• min.	-20 °C		
• max.	Up to 60 °C with max. 32 ET 200SP modules; up to 55 °C with max. 64 ET 200SP modules		
 horizontal installation, min. 	-20 °C		
 horizontal installation, max. 	60 °C		
• vertical installation, min.	-20 °C		
 vertical installation, max. 	50 °C; With max. 32 ET 200SP modules		
Ambient temperature during storage/transportation			
• min.	-40 °C		
• max.	70 °C		
Vibrations			
Operation, tested according to IEC 60068-2-6	Yes		
Transport, tested acc. to IEC 60068-2-6	Yes		
Shock testing			
tested according to IEC 60068-2-6	Yes		
• tested according to IEC 60068-2-27	Yes		
• tested according to IEC 60068-2-29	Yes		
Storage/transport, tested acc. to IEC 60068-2-27	Yes		
	165		
Operating systems	Windows 40 lot Enterprise 2040 LTCD C4bit MIII		
pre-installed operating system configuration / header	Windows 10 IoT Enterprise 2016 LTSB, 64bit, MUI		
configuration / freader			
COMIQUIATION / DIOGRAMMINO / NEADEL			
Programming language	Vac incl faileafa		
Programming language — LAD	Yes; incl. failsafe		
Programming language — LAD — FBD	Yes; incl. failsafe		
Programming language — LAD — FBD — STL	Yes; incl. failsafe Yes		
Programming language — LAD — FBD — STL — SCL	Yes; incl. failsafe Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC	Yes; incl. failsafe Yes Yes No		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH	Yes; incl. failsafe Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection	Yes; incl. failsafe Yes Yes No Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection	Yes; incl. failsafe Yes Yes No Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection	Yes; incl. failsafe Yes Yes No Yes Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection	Yes; incl. failsafe Yes Yes No Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Complete protection	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit Open Development interfaces	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Adjustable minimum cycle time adjustable maximum cycle time		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit Open Development interfaces • Size of ODK SO file, max.	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Adjustable minimum cycle time adjustable maximum cycle time		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection • Protection level: Manual protection • Protection level: Complete protection • Protection level: Complete protection • Protection level: Complete protection • Protection level: Sead/write protection • Protection level: Complete protection • Protection level: Sead/write protection • Protection level: Complete protection • Protection level: Sead/write protection • Protection level: Complete protection • Protection level: Sead/write protection • Protection level: Complete protection • Protection level: Sead/write protection • Protection level: Complete protection • Protection level: Name of the protection programming / cycle time monitoring / header • Iower limit • User programming / cycle time monitoring / header • Iower limit • User production	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Adjustable minimum cycle time adjustable maximum cycle time 5.8 Mbyte		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection • Protection level: Complete protection • programming / cycle time monitoring / header • lower limit • upper limit Open Development interfaces • Size of ODK SO file, max. Peripherals/Options SD card	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Adjustable minimum cycle time adjustable maximum cycle time 5.8 Mbyte		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit Open Development interfaces • Size of ODK SO file, max. Peripherals/Options SD card Dimensions Width	Yes; incl. failsafe Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit Open Development interfaces • Size of ODK SO file, max. Peripherals/Options SD card Dimensions Width Height	Yes; incl. failsafe Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Optionally for additional mass storage		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit Open Development interfaces • Size of ODK SO file, max. Peripherals/Options SD card Dimensions Width Height Depth	Yes; incl. failsafe Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit Open Development interfaces • Size of ODK SO file, max. Peripherals/Options SD card Dimensions Width Height Depth Weights	Yes; incl. failsafe Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Optionally for additional mass storage		
Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection • Protection level: Complete protection programming / cycle time monitoring / header • lower limit • upper limit Open Development interfaces • Size of ODK SO file, max. Peripherals/Options SD card Dimensions Width Height Depth	Yes; incl. failsafe Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Yes Optionally for additional mass storage		

	Version	Classification
eClass	14	27-24-26-07
eClass	12	27-24-26-07
eClass	9.1	27-24-26-07
eClass	9	27-24-26-07
eClass	8	27-24-26-07
eClass	7.1	27-24-26-07
eClass	6	27-24-26-07
ETIM	9	EC001603
ETIM	8	EC001603
ETIM	7	EC001603
IDEA	4	3565
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval

Marine / Shipping

Environment

Manufacturer Declaration Miscellaneous







last modified:

12/8/2024

