SIEMENS

Data sheet

6ES7677-2VB42-0GK0



SIMATIC ET 200SP Open Controller, CPU 1515SP PC2 T + HMI 128PT, 8 GB RAM, 128 GB CFast with Windows 10 IoT Enterprise 64-bit, S7-1500 Software Controller CPU 1505SP and WinCC Runtime Advanced pre-installed, with 128 PowerTags license; Interfaces: 1x Slot CFast, 1x slot SD/MMC, 1x connection for ET 200SP bus Adapter PROFINET, 1x 10/100/1000 Mbit/s Ethernet, 2x USB 3.0, 2x USB 2.0, 1x display port, Documentation on CFast Restore image on CFast

Fi	gı	ILLE	SI	mi	lar

General information	
Product type designation	CPU 1515SP PC2 T
HW functional status	from FS04
Firmware version	V21.9
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V17
Installed software	
Visualization	WinCC Runtime Advanced V17
Control	S7-1500 Software Controller CPU 1505SP T
Configuration control	
via dataset	Yes
Control elements	
Mode selector switch	1
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
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 A ² ·s; with starting current inrush
Power	
Active power input, max.	43 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 Mbyte

- integrated (for data)	
integrated (for data)	5 Mbyte
integrated (for CPU function library of CPU Runtime)	20 Mbyte
Load memory	
integrated (on PC mass storage)	320 Mbyte
Backup	
• with UPS	Yes; all memory areas declared retentive
 with non-volatile memory 	Yes
CPU processing times	
for bit operations, typ.	10 ns
for word operations, typ.	12 ns
for fixed point arithmetic, typ.	16 ns
for floating point arithmetic, typ.	64 ns
CPU-blocks	
Number of elements (total)	6 000; In addition to blocks such as DBs, FBs and FCs, UDTs, global
	constants, etc. are also regarded as elements
DB	
Number, max.	5 999; Number range: 1 to 65535
• Size, max.	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
Counters, timers and their retentivity	
S7 counter	
Number	2 048
Retentivity	
— adjustable	Yes
IEC counter	
Number	Any (only limited by the main memory)
	Any (only limited by the main memory)
Retentivity	Var
— adjustable	Yes
S7 times	
• Number	2 048
Retentivity	
— adjustable	Yes
IEC timer	
	Any (only limited by the main memory)
• Number	Any (only initial by the main memory)
Number Retentivity	Any (only infined by the main memory)
	Yes
Retentivity	
Retentivity — adjustable	
Retentivity — adjustable Data areas and their retentivity	Yes

Number of clock memories	8: 8 clock memory bit around into one clock memory but
Number of clock memories Data blocks	8; 8 clock memory bit, grouped into one clock memory byte
Retentivity adjustable	Yes
Retentivity preset	No
Local data	04 bits to many 40 KD man black
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	
 Number of subprocess images, max. 	32
Hardware configuration	
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	
• Туре	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, slave 	Yes
Interfaces	
Number of industrial Ethernet interfaces	2
Number of PROFINET interfaces	1
Number of PROFIBUS interfaces	
	1
Number of RS 485 interfaces	
Number of RS 485 interfaces	1; Via CM DP module
Number of USB interfaces	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side
Number of USB interfaces Number of SD card slots	1; Via CM DP module
Number of USB interfaces Number of SD card slots Video interfaces	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 1x DisplayPort
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1x DisplayPort PROFINET
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type automatic detection of transmission rate	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 1x DisplayPort PROFINET Yes
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type automatic detection of transmission rate Autonegotiation	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 Ix DisplayPort PROFINET Yes Yes
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type automatic detection of transmission rate Autonegotiation Autocrossing	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 Ix DisplayPort PROFINET Yes Yes Yes Yes Yes Yes
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type automatic detection of transmission rate Autonegotiation Autocrossing Number of connections	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 Ix DisplayPort PROFINET Yes Yes
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type automatic detection of transmission rate Autonegotiation Autocrossing Number of connections Interface types	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 x DisplayPort PROFINET Yes Yes 88
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type automatic detection of transmission rate Autoregotiation Autocrossing Number of connections Interface types • RJ 45 (Ethernet)	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 Ix DisplayPort PROFINET Yes Yes 88 Ves; Via BusAdapter BA 2x RJ45
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type automatic detection of transmission rate Autonegotiation Autocrossing Number of connections Interface types • RJ 45 (Ethernet) — Transmission rate, max.	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 Ix DisplayPort PROFINET Yes Yes Yes 88 Ves; Via BusAdapter BA 2x RJ45 100 Mbit/s
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type automatic detection of transmission rate Autonegotiation Autocrossing Number of connections Interface types • RJ 45 (Ethernet) — Transmission rate, max. — Industrial Ethernet status LED	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 International Statement
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type automatic detection of transmission rate Autonegotiation Autocrossing Number of connections Interface types • RJ 45 (Ethernet) — Transmission rate, max. — Industrial Ethernet status LED • Number of ports	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 PROFINET Yes Yes 88 Yes; Via BusAdapter BA 2x RJ45 100 Mbit/s Yes 2
Number of USB interfaces Number of SD card slots Video interfaces • Graphics interface 1. Interface Interface type automatic detection of transmission rate Autonegotiation Autocrossing Number of connections Interface types • RJ 45 (Ethernet) — Transmission rate, max. — Industrial Ethernet status LED	1; Via CM DP module 4; 2x USB 2.0, 2x USB 3.0 on front side 1 1 International Statement

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)

	(from FS03, V3.3)
Protocols	
PROFINET IO Controller	Yes
PROFINET IO Device	Yes
 SIMATIC communication 	Yes
 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	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 μs)
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
— shortest clock pulse — IRT	Yes
	Yes
- PROFlenergy	
— 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
Autocrossing	Yes
Interface types	
 RJ 45 (Ethernet) 	Yes; Integrated

Transmission rate may	1 000 Mbit/s
— Transmission rate, max. — Industrial Ethernet status LED	No
Number of ports	1
3. Interface	1
Interface type	PROFIBUS with CM DP
Number of connections	44
Interface types	
• RS 485	Yes
Protocols	
PROFIBUS DP master	Yes
PROFIBUS DP slave	Yes
 SIMATIC communication 	Yes
PROFIBUS DP master	
 Number of DP slaves, max. 	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	No
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	222
— Switchover time on line break, typ.	200 ms
— Number of stations in the ring, max.	50
SIMATIC communication	Vee
PG/OP communication	Yes
• S7 routing	Yes
S7 communication, as server	Yes
S7 communication, as clientUser data per job, max.	64 kbyte; BSEND/BRCV: 64 KB; PUT/GET: 960 bytes
Open IE communication	04 KUYLE, BSEND/BROV. 04 KB, FUT/GET. 900 UYLES
• TCP/IP	Yes
— Data length, max.	64 kbyte
ISO-on-TCP (RFC1006)	Yes
— Data length, max.	64 kbyte
• UDP	Yes
— Data length, max.	1 472 kbyte
• 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, Basic256Sha256
— Security policies	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	4
Number of configurable Traces	
Memory size per trace, max.	512 kbyte
Interrupts/diagnostics/status information	
Diagnostics indication LED	Vac
RUN/STOP LED ERROR LED	Yes
ERROR LED MAINT LED	Yes
MAINT LED 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
 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
— for each set of kinematics	30
— Per leading axis proxy	3
Positioning axis	
 — Number of positioning axes at motion control cycle of 4 ms (typical value) 	30
 — Number of positioning axes at motion control cycle of 8 ms (typical value) 	30
Controller	
PID Compact	Yes; Universal PID controller with integrated optimization

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- DID. 2Stop	Voc: DID controller with integrated entimization for volves
PID_3Step	Yes; PID controller with integrated optimization for valves
PID-Temp Counting and measuring	Yes; PID controller with integrated optimization for temperature
High-speed counter	Yes
Standards, approvals, certificates	165
CE mark	Yes
CSA approval	Yes
cULus	Yes
	Yes
FM approval RCM (formerly C-TICK)	Yes
Ambient conditions	
Ambient temperature during operation	
	-20 °C
min. perizentel instellation min	-20 °C
horizontal installation, min.	
 horizontal installation, max. 	60 °C; from 55°C: with max. 32 ET 200SP modules; 4x 0.3 A USB load; CFast memory card max. 10% load; SD card not used
 vertical installation, min. 	-20 °C
 vertical installation, max. 	50 °C; from 45°C: with max. 32 ET 200SP modules; 4x 0.3 A USB load; CFast
, -	memory card and SD card; max. 10% load
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
Operating systems	
pre-installed operating system	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
pre-installed operating system configuration / header	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
configuration / header	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
configuration / header configuration / programming / header	Windows 10 IoT Enterprise 2019 LTSC, 64 bit, MUI
configuration / header configuration / programming / header Programming language	
configuration / header configuration / programming / header Programming language — LAD	Yes
configuration / header configuration / programming / header Programming language — LAD — FBD	Yes Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL	Yes Yes Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL	Yes Yes Yes Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — CFC	Yes Yes Yes No
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — CFC — GRAPH	Yes Yes Yes No
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection	Yes Yes Yes Yes No Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection	Yes Yes Yes Yes No Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • Copy protection	Yes Yes Yes Yes No Yes Yes Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection	Yes Yes Yes Yes No Yes Yes Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection Access protection	Yes Yes Yes No Yes Yes Yes Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Copy protection • Block protection • Protection level: Write protection	Yes Yes Yes Yes No Yes Yes Yes Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Block protection • Block protection • Protection level: Write protection • Protection level: Read/write protection	Yes Yes Yes Yes No Yes Yes Yes Yes Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Block protection • Block protection • Protection level: Write protection • Protection level: Read/write protection • Protection level: Complete protection	Yes Yes Yes Yes No Yes Yes Yes Yes Yes
configuration / header configuration / programming / header Programming language — LAD — FBD — STL — SCL — CFC — GRAPH Know-how protection • User program protection/password protection • Block protection • Block protection • Protection level: Write protection • Protection level: Complete protection • Protection level: Complete protection • Protection level: Complete protection	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes
configuration / header configuration / programming / header Programming language - LAD - FBD - STL - SCL - CFC - GRAPH Know-how protection • User program protection/password protection • Block protection • Block protection • Protection level: Write protection • Protection level: Complete protection • Protection level: Complete protection • lower limit	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes
configuration / header configuration / programming / header Programming language - LAD - FBD - STL - SCL - CFC - GRAPH Know-how protection • User program protection/password protection • Block protection • Block protection • Protection level: Write protection • Protection level: Write protection • Protection level: Complete protection • Protection level: Complete protection • Iower limit • upper limit	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes
configuration / header configuration / programming / header 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 • Iower limit • upper limit Open Development interfaces	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes
configuration / header configuration / programming / header 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 • Programming / cycle time monitoring / header • lower limit • upper limit Open Development interfaces • Size of ODK SO file, max.	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes
configuration / header configuration / programming / header 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: Complete protection • Protection level: Complete protection • Dower limit • upper limit Open Development interfaces • Size of ODK SO file, max.	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Salutable minimum cycle time adjustable maximum cycle time
configuration / header configuration / programming / header 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: Complete protection • Protection level: Complete protection • Protection level: Complete protection • Dower limit • upper limit Open Development interfaces • Size of ODK SO file, max.	Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Salutable minimum cycle time adjustable maximum cycle time
configuration / header configuration / programming / header 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: Write 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 Yes Yes Yes No Yes Yes Yes Yes Yes Yes Solutional mass storage
configuration / header configuration / programming / header 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: Write protection • Protection level: Complete protection • Protection level: Complete protection • Iower limit • upper limit Open Development interfaces • Size of ODK SO file, max. Peripherals/Options SD card Dimensions Width Height	Yes Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Yes Solutional mass storage
configuration / header configuration / programming / header 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: Write 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 Yes Yes Yes No Yes Yes Yes Yes Yes Yes Yes Solutional mass storage

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