SIEMENS

Data sheet

6AG1123-2MA03-2AX0



SIPLUS HMI KTP1200 Basic DP based on 6AV2123-2MA03-0AX0 with conformal coating, -10...+50 °C, key/touch operation, 12" TFT display, 65536 colors PROFIBUS interface, configurable as of WinCC Basic V13/ STEP 7 Basic V13, contains open source software, which is provided free of charge see enclosed CD-ROM

General information	
Product type designation	KTP1200 Basic color DP
Display	
Design of display	TFT widescreen display, LED backlighting
Screen diagonal	12 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	65 536
Resolution (pixels)	
 Horizontal image resolution 	1 280 pixel
 Vertical image resolution 	800 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	20 000 h
Backlight dimmable	Yes
Control elements	
Keyboard fonts	
 Function keys 	
 — Number of function keys 	10
 — Number of function keys with LEDs 	0
 Keys with LED 	No
 System keys 	No
Numeric keyboard	Yes; Onscreen keyboard
 alphanumeric keyboard 	Yes; Onscreen keyboard
Touch operation	
 Design as touch screen 	Yes; Analog-resistive
Installation type/mounting	
Mounting in portrait format possible	Yes
Mounting in landscape format possible	Yes
maximum permissible angle of inclination without external ventilation	35°
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Input current	
Current consumption (rated value)	550 mA
Starting current inrush I ² t	0.2 A ² ·s
Power	

Active power input, typ.	13.2 W
Processor	
	ARM
Processor type	ARM
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	10 Mbyte
Type of output	
Acoustics	
• Buzzer	Yes
• Speaker	No
Time of day	
Clock	
 Hardware clock (real-time) 	Yes
 Software clock 	Yes
retentive	Yes; Back-up duration typically 6 weeks
 synchronizable 	Yes
Interfaces	
Number of industrial Ethernet interfaces	0
Number of RS 485 interfaces	1
Number of RS 422 interfaces	1; together with RS 485
Number of RS 232 interfaces	0; with optional adapter
Number of USB interfaces	1; Up to 16 GB
Number of 20 mA interfaces (TTY)	0
Number of parallel interfaces	0
Number of other interfaces	0
Number of SD card slots	0
With software interfaces	No
Industrial Ethernet	
 Industrial Ethernet status LED 	0
Protocols	
PROFINET	No
Supports protocol for PROFINET IO	No
IRT	No
PROFIBUS	Yes
EtherNet/IP	No
MPI	Yes
MPI Protocols (Ethernet)	Yes
	Yes No
Protocols (Ethernet) • TCP/IP • DHCP	
Protocols (Ethernet) • TCP/IP • DHCP • SNMP	No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP	No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP	No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP	No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP	No No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML	No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode	No No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy	No No No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy MRP	No No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy MRP Further protocols	No No No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy MRP Further protocols • CAN	No No No No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy — MRP Further protocols • CAN • MODBUS	No No No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy — MRP Further protocols • CAN • MODBUS Interrupts/diagnostics/status information	No No No No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy — MRP Further protocols • CAN • MODBUS	No No No No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy — MRP Further protocols • CAN • MODBUS Interrupts/diagnostics/status information	No No No No No No No
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy MRP Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses	No No No No No No No No Yes; Modicon (MODBUS RTU)
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy — MRP Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable	No No No No No No No No Yes; Modicon (MODBUS RTU)
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy — MRP Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable EMC	No No No No No No No No Yes; Modicon (MODBUS RTU)
Protocols (Ethernet) • TCP/IP • DHCP • SNMP • DCP • LLDP WEB characteristics • HTTP • HTML Redundancy mode Media redundancy — MRP Further protocols • CAN • MODBUS Interrupts/diagnostics/status information Diagnoses • Diagnostic information readable EMC Emission of radio interference acc. to EN 55 011	No No No No No No No No Yes; Modicon (MODBUS RTU)

Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
NEMA (front)	
 Enclosure Type 4 at the front 	Yes
 Enclosure Type 4x at the front 	Yes
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	
 For vertical installation, min. 	-10 °C; = Tmin
— For vertical installation, max.	50 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	-10 °C; = Tmin
— At maximum tilt angle, max.	40 °C
Operation (vertical installation, portrait format)	
— For vertical installation, min.	-10 °C; = Tmin
— For vertical installation, max.	40 °C
Operation (max. tilt angle, portrait format)	
— At maximum tilt angle, min.	-10 °C; = Tmin
— At maximum tilt angle, max.	35 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	5 000 m
Ambient air temperature-barometric pressure-	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin
altitude	(Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin
	(Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m)
Relative humidity	
 With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation/frost (no commissioning when
Resistance	condensation present), vertical mounting position
Coolants and lubricants	
— Resistant to commercially available coolants	Yes; Incl. diesel and oil droplets in the air
and lubricants	
Use in stationary industrial systems	
 — to biologically active substances according to 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of
EN 60721-3-3	fauna); Class 3B3 on request
 — to chemically active substances according to EN 60721-3-3 	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
	(severity degree 3); *
 — to mechanically active substances according to EN 60721-3-3 	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
— to chemically active substances according to	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52
EN 60721-3-6 — to mechanically active substances according to	(severity degree 3); * Yes; Class 6S3 incl. sand, dust; *
EN 60721-3-6	
Usage in industrial process technology	
 Against chemically active substances acc. to EN 60654-4 	Yes; Class 3 (excluding trichlorethylene)
 Environmental conditions for process, measuring and control systems acc. to ANSI/ISA- 71.04 	Yes; Level GX group A/B (excluding trichlorethylene; harmful gas concentrations up to the limits of EN 60721-3-3 class 3C4 permissible); level LC3 (salt spray) and level LB3 (oil)
Remark	
 Note regarding classification of environmental conditions acc. to EN 60721, EN 60654-4 and ANSI/ISA-71.04 	* The supplied plug covers must remain in place over the unused interfaces during operation!
Conformal coating	
Conformal coating • Coatings for printed circuit board assemblies acc. to	Yes; Class 2 for high reliability

- Protection against fouling acc. to EN 60664-3
- Military testing according to MIL-I-46058C, Amendment 7

Qualification and Performance of Electrical
Insulating Compound for Printed Board Assemblies
according to IPC-CC-830A

Yes; Type 1 protection

Yes; Discoloration of coating possible during service life

Yes; Conformal coating, Class A

proprietary Yes dor-install operating system	Operating systems	
Windows CE No configuration / header Message indicator Yes Alam system (ncl. buffer and acknowledgment) Yes Process value defaul (input) possible Yes Process value defaul (input) possible Yes Process value defaul (input) possible Yes Configuration software Yes • STEP 7 Dates (TIA Portal) Yes, via integrated WinCC Basic (TIA Portal) • WINCC Ravible Compact No • WinCC Ravible Shandard No • WinCC Confort (TIA Portal) Yes • WincC ordensional (TIA Portal) Yes • WincC relaxistic action of the portal 22 Functionality under WinCC (TIA Portal) Yes • Languages per project 32 Functionality under WinCC (TIA Portal) Yes • Languages per project 32 </td <td></td> <td>Yes</td>		Yes
Windows CE No configuration / header Message indicator Yes Alam system (ncl. buffer and acknowledgment) Yes Process value defaul (input) possible Yes Process value defaul (input) possible Yes Process value defaul (input) possible Yes Configuration software Yes • STEP 7 Dates (TIA Portal) Yes, via integrated WinCC Basic (TIA Portal) • WINCC Ravible Compact No • WinCC Ravible Shandard No • WinCC Confort (TIA Portal) Yes • WincC ordensional (TIA Portal) Yes • WincC relaxistic action of the portal 22 Functionality under WinCC (TIA Portal) Yes • Languages per project 32 Functionality under WinCC (TIA Portal) Yes • Languages per project 32 </td <td>pre-installed operating system</td> <td></td>	pre-installed operating system	
Message indicator Yes Alam system (incl. buffer an acknowledgment) Yes Process value display (output) Yes Process value display (output) Yes Process value display (output) Yes Configuration software Yes Configuration software Yes • STEP 7 Broitesional (TA Portal) Yes, via integrated WinCC Basic (TA Portal) • WinCC Ravible Compact No • WinCC Ravible Compact No • WinCC Conside (TIA Portal) Yes, via integrated WinCC Basic (TIA Portal) • WinCC Conside (TIA Portal) Yes • WinCC Confert (TIA Portal) Yes • Number of online/runtime languages 10 Procest languages Yes • Number of Visual Basic Scripts No • Number of Visual Basic Scripts No • Number of alarne (Lasses 32 • Number of alarne (Lasses 32 <td>Windows CE</td> <td>No</td>	Windows CE	No
Message indicator Yes Alam system (incl. buffer an acknowledgment) Yes Process value display (output) Yes Process value display (output) Yes Process value display (output) Yes Configuration software Yes Configuration software Yes • STEP 7 Broitesional (TA Portal) Yes, via integrated WinCC Basic (TA Portal) • WinCC Ravible Compact No • WinCC Ravible Compact No • WinCC Conside (TIA Portal) Yes, via integrated WinCC Basic (TIA Portal) • WinCC Conside (TIA Portal) Yes • WinCC Confert (TIA Portal) Yes • Number of online/runtime languages 10 Procest languages Yes • Number of Visual Basic Scripts No • Number of Visual Basic Scripts No • Number of alarne (Lasses 32 • Number of alarne (Lasses 32 <td>configuration / header</td> <td></td>	configuration / header	
Attern system (incl. buffer and acknowledgment) Yes Process value display (cutput) Yes Process value display (cutput) Yes Recipe management Yes Configuration software Yes • STEP 7 Professional (TIA Portal) Yes: via integrated WinCC Basic (TIA Portal) • WinCC flexible Standard No • WinCC Basic (TIA Portal) Yes • WinCC Casible Advanced No • WinCC Combit (TIA Portal) Yes • WinCC Common (TIA Portal) Yes • WinCC Common (TIA Portal) Yes • WinCC Common (TIA Portal) Yes • WinCC Professional (TIA Portal) Yes • WinCC Common (TIA Portal) Yes • WinCC Common (TIA Portal) Yes • Unclosality under WinCC (TIA Portal) Yes • Unclosality under WinCC (TIA Portal) Yes • Languages Yes • Languages Yes • Number of online/runtime languages Yes • Number of online/runtime languages Yes • Languages per project 32 • Langua		Yes
Process value display (output) Yes Process value display (output) Yes Configuration software Yes Configuration software Yes STEP 7 Professional (TIA Portal) Yes; via integrated WinCC Basic (TIA Portal) • WinCC flexible Compact No • WinCC flexible Compact No • WinCC flexible Advanced No • WinCC Basic (TIA Portal) Yes • WinCC Comfort (TIA Portal) Yes • WinCC Mayages 10 Processing (TIA Portal) Yes • Languages per project 32		Yes
Process value default (input) possible Yes Recipe management Yes Configuration software Yes, via integrated WinCC Basic (TIA Portal) • STEP 7 Basic (TIA Portal) Yes, via integrated WinCC Basic (TIA Portal) • STEP 7 Professional (TIA Portal) Yes, via integrated WinCC Basic (TIA Portal) • WinCC flexible Compact No • WinCC Basic (TIA Portal) Yes • WinCC Cashe Advanced No • WinCC Cashe (TIA Portal) Yes • WinCC Avanced (TIA Portal) Yes • WinCC Professional (TIA Portal) Yes • WinCC Professional (TIA Portal) Yes • WinCC Professional (TIA Portal) Yes • WinC C Professional (TIA Portal) Yes • Unice advanced (TIA Portal) Yes • Unice Comfort (TIA Portal) Yes • Languages 10 • Project languages 10 • Longuages project 32 Eunctionality under WinCC (TIA Portal) Libraries • Libraries Yes Number of Visual Basic Scripts No • Languages Yes		Yes
Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • No • WinCC flexible Standard • WinCC flexible Advanced • WinCC flexible Advanced • WinCC flexible Advanced • WinCC Comfor (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • Number of online/runtime languages • Number of IA Portal) Ubraries • Number of Visual Basic Scripts Yes No Task planner • Web Drowser • Number of characters per info text • Number of duard classes • Number of duard classes • Number of duard classes • Number of analog messages • Number of analog messages • System message SHMI • Number of prosesage Subter		Yes
Configuration software STEP 7 Basic (TIA Portal) Yes, via integrated WinCC Basic (TIA Portal) STEP 7 Professional (TIA Portal) Yes, via integrated WinCC Basic (TIA Portal) WinCC flexible Advanced No WinCC Basic (TIA Portal) Yes, via integrated WinCC Basic (TIA Portal) WinCC Control (TIA Portal) Yes WinCC Professional (TIA Portal) Yes Number of online/runtime languages Online languages Languages Number of online/runtime languages Ves Web Drowser Yes Number of Visual Basic Scripts No Task planner Yes Number of characters per info text Soo Number of characters per info text Soo Number of analog messages Soo	Recipe management	Yes
• STEP 7 Professional (TIA Portal)Yes; via integrated WinCC Basic (TIA Portal)• WinCC flexible StandardNo• WinCC flexible AdvancedNo• WinCC flexible AdvancedNo• WinCC Control (TA Portal)Yes• WinCC Intervitine languages10Project languages10Project languages per project32• Number of online/runtime languagesYesApplications/optionsYes• Web DrowserYesNumber of Visual Basic ScriptsNoTask plannerYes• Ume of dama Casess32• Bit messages100• Number of dama Casess32• Bit messages1000• Analog messages1000• Analog messages25• System number procedureNo• System number procedureNo• System went, more (SIMATIC ST, SINUMERIK, SIMOTICN,)Yes, System message buffer of the SIMATIC ST-1200 and ST-1500• Number of dama Guessage80• Number of dama Cases80• Number of dentries256• Number of dentries256• Number of dentries256• Number of dentries256• Number of dentries256		
• WinCC flexible Standard No • WinCC flexible Advanced No • WinCC Basic (TIA Portal) Yes • WinCC Comfort (TIA Portal) Yes • WinCC Advanced (TIA Portal) Yes • WinCC Professional (TIA Portal) Yes • WinCC Professional (TIA Portal) Yes • Unoper of noniner/nutime languages 10 • Languages per project 32 • Languages per project 32 • Languages per project 32 • Unober of noniner/nutime languages Yes • Languages per project 32 • Languages per project 32 • Unober of visual Basic Scripts No • Web browser Yes • Web controlled No • Unaber of characters per info text 500 • Number of characters per info text 500 • Number of alarm classes 32 • Winder of alarm classes 32 • Number of characters per info text 500 • Number of alarm classes 32 • Number of alarm classes 32 • System messages HMI Yes • Number of nalog messages 25 • System messages HMI Yes • Number of forticaracters per message 80	STEP 7 Basic (TIA Portal)	Yes; via integrated WinCC Basic (TIA Portal)
• WinCC flexible AdvancedNo• WinCC flexible AdvancedNo• WinCC Casic (TA Portal)Yes• WinCC Confort (TIA Portal)Yes• WinCC Advanced (TIA Portal)Yes• WinCC Corbessional (TIA Portal)Yes• WinCC Corbessional (TIA Portal)Yes• Wince of online/runtime languages10Project languages32• Languages per project32• Mumber of online/runtime languages10Project languagesYes• Water of NameYes• Water of NameYes• Mumber of Visual Basic ScriptsNo• Web browserYes• Winber of diam classesYes• Winber of bit messagesYes• Winber of bit messages32• Winber of bit messages32• Winber of bit messages32• Winber of bit messages32• Winber of bit messages25• System messages HMIYes• Number of ot procedureNo• System messages HMIYes• Number of ot process values per message80• Number of nords sciences per infortext50• Number of ot process values per message80• Number of ot process values per message80• Number of ot process values per message80• Number of ot entries256• Chrowideging troupsYes• Message bufferYes• Number of entries256• Chrowideging troupsYes• Message bufferYes </td <td> STEP 7 Professional (TIA Portal) </td> <td>Yes; via integrated WinCC Basic (TIA Portal)</td>	 STEP 7 Professional (TIA Portal) 	Yes; via integrated WinCC Basic (TIA Portal)
• WinCC flexible Advanced No • WinCC Basic (TIA Portal) Yes • WinCC Confrot (TIA Portal) Yes • WinCC Confrot (TIA Portal) Yes • WinCC Professional (TIA Portal) Yes • Uncert Professional (TIA Portal) Yes • Uncert Professional (TIA Portal) Yes • Languages 10 • Languages per project 32 • Languages per project 32 • Languages per project 32 • Vels browser Yes • Web browser Yes • Web controlled No • Unumber of visual Basic Scripts No • Task planner Yes • Number of characters per info text 500 • Number of analog messages 25 • System messages HMI Yes • System messages HMI Yes • Number of characters per message 80	WinCC flexible Compact	No
• WinCC Basic (TIA Portal) Yes • WinCC Confront (TIA Portal) Yes • WinCC Confront (TIA Portal) Yes • WinCC Professional (TIA Portal) Yes • Rumber of online/functional (TIA Portal) Yes • Number of online/functional (TIA Portal) Yes • Number of online/functional (TIA Portal) Yes • Number of online/functional (TIA Portal) Yes • Languages per project 32 • Languages per project Yes • Languages per project Yes Applications/options Yes • Wineb rowser Yes Number of Visual Basic Scripts No Task planner Yes • Number of characters per info text 500 Message system Yes • Number of alarm classes 32 • Tuber of alarm classes 32 • Number of bit messages 1000 • Analog messages 25 • System messages HMI Yes • System messages HMI Yes • Number of characters per message 80 • Number of characters per message 80 • Number of characters per message 80 • System messages HMI Yes • System vent, more (SIMATIC S7, SINUMERIK, SIMATIC S7-1200	WinCC flexible Standard	No
• WinCC Comfort (TIA Portal) Yes • WinCC Advanced (TIA Portal) Yes • WinCC Professional (TIA Portal) Yes Languages 10 Project languages 10 • Languages per project 32 Functionality under WinCC (TIA Portal) Yes Libraries Yes Applications/options Yes • Web browser Yes Number of Visual Basic Scripts No Task planner Yes • Number of starters per info text 500 Message system 4 • Number of filmessages 2 • Number of filmessages 32 • Number of alarn classes 32 • Number of filmessages 10 • Number of filmessages 2 • Number of filmessages 32 • Bit messages 1000 • Analog messages 25 • System messages HMI Yes • System event, more (SIMATIC S7, SINUMERIK, SIMMERIK, Sinumetro of entres 25 • Criculating buffer 4 • Number of entries 25 • Criculating buffer	WinCC flexible Advanced	No
• WinCC Advanced (TIA Portal) Yes • WinCC Professional (TIA Portal) Yes Ianguages 0 • Number of online/runtime languages 10 Project languages 32 • Languages per project 32 Functionality under WinCC (TIA Portal) 10 Libraries Yes Applications/options Yes • Web browser Yes Number of Visual Basic Scripts No Task planner Yes • time-controlled No • lask-controlled Yes • Number of characters per info text 500 Message system 2 • Number of bit messages 2 • Number of bit messages 1000 • Analog messages 25 • ST alarm number procedure No • System messages HMI Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 SiMOTION,) Wober of entries 26 • Number of entries 256 • Number of entries 256 • Carculating buffer Yes • Number of entries 256 • Curculating buffer Yes	WinCC Basic (TIA Portal)	Yes
• WinCC Professional (TIA Portal) Yes Languages • Online languages 10 • Number of online/funtime languages 10 Project languages 32 • Languages per project 32 Functionality under WinCC (TIA Portal) 10 Libraries Yes Applications/options Yes • Web browser Yes Number of Visual Basic Scripts No Task planner Yes • lime-controlled No • lask-controlled Yes • Number of characters per info text 500 Message system 1000 • Number of alarm classes 32 • Bit messages 10000 • Analog messages 25 • System messages HMI Yes • Number of characters per message 80 • Number of process values per message 80 • Number of characters per message 80 • Number of characters per message </td <td> WinCC Comfort (TIA Portal) </td> <td>Yes</td>	 WinCC Comfort (TIA Portal) 	Yes
Languages Online languages • Number of online/runtime languages • Languages per project 32 Functionality under WinCC (TIA Portal) Libraries Applications/options • Web browser Yes Number of Visual Basic Scripts No Task planner • lime-controlled No • lask-controlled Yes Help system • Number of characters per info text 500 Message system • Number of alarm classes 92 - Number of alarm classes - Number of characters per info text No • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) • Number of characters per message 80 • Number of characters per message 80 • Number of characters per message 80 • Number of characters per message <td> WinCC Advanced (TIA Portal) </td> <td>Yes</td>	 WinCC Advanced (TIA Portal) 	Yes
Online languages 10 Project languages per project 32 Functionality under WinCC (TIA Portal) 32 Libraries Yes Applications/options Yes • Web browser Yes Number of Visual Basic Scripts No Task planner Yes • Web browser Yes Number of Visual Basic Scripts No Task planner Yes • Uncontrolled Yes • Number of characters per info text 500 Message system Yes • Number of alarm classes 32 • Bill messages 1000 • Analog messages 25 • System messages HMI Yes • Number of characters per message 80 • Number of characters per message 80 • Number of characters per message 80 • Number of characters per message 8 • Acknowledgment groups Yes • Message indicator Yes • Message indicator Yes • Message indicator Yes • Message indicator Yes <td> WinCC Professional (TIA Portal) </td> <td>Yes</td>	 WinCC Professional (TIA Portal) 	Yes
• Number of online/runtime languages 10 Project languages 32 • Languages per project 32 Functionality under WinCC (TIA Portal) 10 Libraries Yes Applications/options Yes • Web browser Yes Number of Visual Basic Scripts No Task planner Yes • time-controlled No • task-controlled Yes • Number of characters per info text 500 Message system 32 • Number of alarm classes 32 • Bit messages 1000 • Analog messages 25 • Number of analog messages 25 • System wevent, more (SIMATIC S7, SINUMERIK, SIMOTION,,) Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 • Number of process values per message 80 • Number of process values per message 80 • Number of entries 256 • Circulating buffer Yes • Message indicator Yes • Message indicator Yes • Message indicator Yes • Message indicator	Languages	
Project languages 32 Functionality under WinCC (TIA Portal) 1 Libraries Yes Applications/options Yes • Web browser Yes Number of Visual Basic Scripts No Task planner Yes • time-controlled No • time-controlled Yes • time-controlled Yes • Number of characters per info text 500 Message system Yes • Number of alarm classes 32 • Bit messages 1000 • Analog messages 25 • System mecsages 25 • System mecesages system Yes • Number of analog messages 25 • System mecesages 25 • System mecesages 25 • System mecesages 80 • Number of characters per message 80 • Number of characters per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes • Message indicator Yes <	Online languages	
• Languages per project 32 Functionality under WinCC (TIA Portal) Libraries Yes Applications/options Yes • Web browser Yes Number of Visual Basic Scripts No Task planner Yes • time-controlled Yes • time-controlled Yes • Number of characters per info text 500 Message system Yes • Number of alarm classes 32 • Bit messages 32 • Number of bit messages 1000 • Analog messages 25 • S7 alarm number procedure No • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 • Number of characters per message 80 • Akowledgment groups Yes • Message indicator Yes • Message indicator Yes • Message indicator Yes • Message indicator Yes • Circulating buffer 256 • Circulating buffer 256 • Circulating buffer Yes		10
Functionality under WinCC (TIA Portal) Libraries Yes Applications/options Yes • Web browser Yes Number of Visual Basic Scripts No Task planner Yes • time-controlled No • task-controlled Yes • Number of characters per info text 500 Message system Yes • Number of characters per info text 500 Message system 1000 • Analog messages 2 - Number of bit messages 1000 • Analog messages 25 • S7 alarm number procedure No • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 • Number of process values per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes<	Project languages	
Libraries Yes Applications/options Yes Number of Visual Basic Scripts No Task planner Yes • time-controlled No • task-controlled Yes Help system Yes • Number of characters per info text 500 Message system 32 • Number of alarm classes 32 • Bit messages 1 000 • Analog messages 25 • S7 alarm number procedure No • Number of characters per message 80 • Number of characters per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes <	Languages per project	32
Libraries Yes Applications/options Yes Number of Visual Basic Scripts No Task planner Yes • time-controlled No • task-controlled Yes Help system Yes • Number of characters per info text 500 Message system 32 • Number of alarm classes 32 • Bit messages 1 000 • Analog messages 25 • S7 alarm number procedure No • Number of characters per message 80 • Number of characters per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes <	Functionality under WinCC (TIA Portal)	
• Web browserYesNumber of Visual Basic ScriptsNoTask plannerYes• time-controlledNo• task-controlledYes• Number of characters per info text500Message system500• Number of alarm classes32• Bit messages1000• Analog messages25• S7 alarm number procedureNo• System messages HMIYes• System messages HMIYes• System ressage HMIYes• System ressage InfortorionYes• System of characters per message80• Number of entriesYes• Message indicatorYes• Message indicatorYes• Message indicatorYes• Mumber of entries256• Circulating bufferYes• Number of entries256• Circulating bufferYes	Libraries	Yes
Number of Visual Basic Scripts No Task planner Yes • time-controlled No • task-controlled Yes Help system Yes • Number of characters per info text 500 Message system 32 • Number of alarm classes 32 • Bit messages 1000 • Analog messages 1 - Number of analog messages 25 • S7 alarm number procedure No • System messages HMI Yes • System messages HMI Yes • System vent, more (SIMATIC S7, SINUMERIK, SIMOTION,) Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 • Number of process values per message 80 • Number of process values per message 80 • Acknowledgment groups Yes • Message indicator Yes • Message buffer • Circulating buffer	Applications/options	
Task planner Yes • time-controlled No • task-controlled Yes Help system Yes • Number of characters per info text 500 Message system Yes • Number of characters per info text 500 Message system 32 • Number of alarn classes 32 • Bit messages 1000 • Analog messages 25 • S7 alarn number procedure No • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 • Number of characters per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes • Message buffer - - Number of entries 256 - Circulating buffer Yes - Number of entries 256 - Circulating buffer Yes	Web browser	Yes
time-controlledNotask-controlledYesHelp systemYesNumber of characters per info text500Message system32Number of alarm classes32Bit messages Number of bit messages1 000Analog messages Number of analog messages25S7 alarn number procedureNoSystem messages HMIYesSystem event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes; System message buffer of the SIMATIC S7-1200 and S7-1500Number of characters per message80Acknowledgment groupsYesAcknowledgment groupsYesMessage buffer Number of entries256- Circulating bufferYes- Number of entries256- Circulating bufferYes- Number of entries256- Circulating bufferYes	Number of Visual Basic Scripts	No
• task-controlledYesHelp systemYes• Number of characters per info text500Message system32• Number of alarm classes32• Bit messages Number of bit messages1000• Analog messages Number of analog messages25• S7 alarm number procedureNo• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes; System message buffer of the SIMATIC S7-1200 and S7-1500• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Message indicatorYes• Mumber of entries256- Circulating bufferYes- Number of entries256- Circulating bufferYes- netentiveYes	Task planner	Yes
Help system Yes • Number of characters per info text 500 Message system 32 • Number of alarm classes 32 • Bit messages 1 000 • Analog messages 1 000 • Analog messages 25 • S7 alarm number procedure No • System messages HMI Yes • System vent, more (SIMATIC S7, SINUMERIK, SIMOTION,) Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 • Number of characters per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Message buffer Yes • Message buffer 7 • Mumber of entries 256 • Circulating buffer Yes • Message buffer Yes • Message buffer Yes • Message buffer Yes • Mumber of entries 256 • Circulating buffer Yes	time-controlled	No
• Number of characters per info text 500 Message system 32 • Number of alarm classes 32 • Bit messages 1000 • Analog messages 1000 • Analog messages 25 • Number of analog messages 25 • S7 alarm number procedure No • System messages HMI Yes • System ovent, more (SIMATIC S7, SINUMERIK, SIMOTION,) Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 • Number of characters per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes • Message buffer - • Number of entries 256 • Circulating buffer Yes • number of entries 256 • Circulating buffer Yes • netentive Yes	task-controlled	Yes
Message system 32 • Number of alarn classes 32 • Bit messages 1000 • Analog messages 1000 • Analog messages 25 • S7 alarn number procedure No • System messages HMI Yes • System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Yes; System message buffer of the SIMATIC S7-1200 and S7-1500 • Number of characters per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Message buffer Yes • Circulating buffer Yes • retentive <t< td=""><td>Help system</td><td>Yes</td></t<>	Help system	Yes
• Number of alarm classes32• Bit messages1 000• Analog messages1 000• Analog messages25• Number of analog messages25• S7 alarm number procedureNo• System messages HMIYes• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes; System message buffer of the SIMATIC S7-1200 and S7-1500• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Message buffer-• Mumber of entries256• Circulating bufferYes• Circulating bufferYes• Restage indicatorYes• Message bufferYes• Number of entriesYes• Message bufferYes• Message bufferYes• Oriculating bufferYes• Ori	 Number of characters per info text 	500
Bit messages1 000- Number of bit messages1 000- Analog messages Number of analog messages25- S7 alarn number procedureNo- System messages HMIYes- System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes; System message buffer of the SIMATIC S7-1200 and S7-1500- Number of characters per message80- Number of process values per message8- Acknowledgment groupsYes- Message indicatorYes- Mumber of entries256- Circulating bufferYes- Circulating bufferYes- retentiveYes	Message system	
Number of bit messages1 000• Analog messages25 Number of analog messages25• S7 alarm number procedureNo• System messages HMIYes• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes; System message buffer of the SIMATIC S7-1200 and S7-1500• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Message bufferYes- Number of entries256- Circulating bufferYes- retentiveYes	 Number of alarm classes 	32
 Analog messages Number of analog messages S7 alarm number procedure S7 alarm number procedure System messages HMI Yes System event, more (SIMATIC S7, SINUMERIK, SIMOTION,) Number of characters per message Number of characters per message Acknowledgment groups Acknowledgment groups Message indicator Message buffer Number of entries Circulating buffer Picture of entries Picture of entries Yes 	-	
- Number of analog messages25• S7 alarm number procedureNo• System messages HMIYes• System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes; System message buffer of the SIMATIC S7-1200 and S7-1500• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Mumber of entries256• Circulating bufferYes- Circulating bufferYes- retentiveYes	-	1 000
S7 alarm number procedureNoSystem messages HMIYesSystem event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes; System message buffer of the SIMATIC S7-1200 and S7-1500Number of characters per message80Number of process values per message8Acknowledgment groupsYesAcknowledgment groupsYesMessage indicatorYesMumber of entries256— Number of entriesYes— Circulating bufferYes— retentiveYes		
System messages HMIYesSystem event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes; System message buffer of the SIMATIC S7-1200 and S7-1500• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Message bufferYes- Number of entries256- Circulating bufferYes- retentiveYes		
System event, more (SIMATIC S7, SINUMERIK, SIMOTION,)Yes; System message buffer of the SIMATIC S7-1200 and S7-1500• Number of characters per message80• Number of process values per message8• Acknowledgment groupsYes• Message indicatorYes• Message bufferYes• Mumber of entries256• Circulating bufferYes• retentiveYes		
SIMOTION,) 80 • Number of characters per message 80 • Number of process values per message 8 • Acknowledgment groups Yes • Message indicator Yes • Message buffer Yes - Number of entries 256 - Circulating buffer Yes - retentive Yes		
Number of process values per message8Acknowledgment groupsYesMessage indicatorYesMessage buffer Number of entries256- Circulating bufferYes- retentiveYes	SIMOTION,)	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
 Acknowledgment groups Message indicator Message buffer Mumber of entries Circulating buffer retentive Yes 	·	
 Message indicator Message buffer Number of entries Circulating buffer retentive Yes 		8
Message buffer Number of entries Circulating buffer retentive Yes		
Number of entries 256 Circulating buffer Yes retentive Yes	-	Yes
— Circulating buffer Yes — retentive Yes	-	
- retentive Yes		
	-	
— maintenance-free Yes		
	— maintenance-free	Yes

Recipe management	
Number of recipes	50
Data records per recipe	100
Entries per data record	100
Size of internal recipe memory	256 kbyte
Recipe memory expandable	No
Variables	
 Number of variables per device 	800
 Number of variables per screen 	100
Limit values	Yes
Multiplexing	Yes
Structures	No
Arrays	Yes
Images	
 Number of configurable images 	250
Permanent window/default	Yes
Global image	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Number of objects per image	100
• Text fields	Yes
• I/O fields	Yes
Graphic I/O fields (graphics list)	Yes
• Symbolic I/O fields (text list)	Yes
Date/time fields	Yes
• Switches	Yes
Buttons	Yes
Graphic display	Yes
Icons Coomatria abiasta	Yes
Geometric objects Complex image objects	Yes
Number of complex objects per screen	10
Alarm view	Yes
Trend view	Yes
User view	Yes
Status/control	No
 Sm@rtClient view 	No
Recipe view	Yes
• f(x) trend view	No
System diagnostics view	Yes; System message buffer of the SIMATIC S7-1200 and S7-1500
Media Player	No
Bar graphs	Yes
Sliders	No
Pointer instruments	No
Analog/digital clock	No
Lists	
Number of text lists per project	300
Number of entries per text list	100
Number of graphics lists per project	100
Number of entries per graphics list	100
Archiving	2
Number of archives per device	2
Number of entries per archive	10 000 Yes
 Message archive Process value archive 	Yes
Archiving methods	
Archiving methods — Sequential archive	Yes
— Sequential archive — Short-term archive	Yes
 Memory location 	

	Memory cord	No
- EthernetNo• Obal storage format- CSV- CSVNo- CSVNo- TXIYes• Number of user groups50• Number of user groupsYes• Standard onts US EnglishYes• Transfer (upaced/download)No• User groupsYes• S7-1200Yes• S1NUATCINYes• S1NUATCINYes <t< td=""><td>— Memory card</td><td></td></t<>	— Memory card	
- CSV No - RDB No - RDB No - RDB No Security Sol - Number of user groups 50 - Number of users of user groups 50 - Number of users of user groups 50 - Number of users of user groups 50 - Passeout opport/import Yees - Passeout opport/import Yees - Passeout opport/import Yees - CUS English - - US English Yees - US Sol Yees - ST-1200	-	
− CSV No − TXT Yes − RDB No Security 50 • Number of user groups 50 • Number of user groups 50 • Number of users 50 • Standard sector 50 • Standard sec		INU
- TXT Yes - RDB No Security • Number of user roups 50 • Number of user roups 50 • Number of user roups 50 • Reserved seport: mport Yes • Person deport: mport Yes • SMATIC Logon No Character sets - USE Sengish Yes • USE No • User of User roups Yes • S7-1500 Yes • S7-1500 Yes • S7-1500 Yes • S7-1500 Yes • S7-200 Yes • S7-200 • S7-200 Yes • S7-200 • S7-200 Yes • S7-200 • S7-200 Yes • S7-200 •	-	No
− RDB No Security 50 • Number of user groups 50 • Number of users 50 • Number of users 50 • Password deport/import Yes • SIMATTC Logon No Character sets - • Keyboard forths - - US English Yes • USB No • Enemet No • SIMATTCROP Yes • USB No • Enemet No • ST-1200 Yes • ST-7500 Yes • ST-7500 Yes • ST-7500 Yes • ST-7200 Yes • ST-7200 Yes • SIMOTION Yes • SIMOTION Yes • SIMOTION Yes • SIMUMERIK Yes: No access to NCK data • SIMUMERIK Yes: No access to NCK data • Allen Bradley (EffertherMetP) No • Matubath (AC TCP)P) No • Matubath (AC TCP)P		
Security 50 • Number of user groups 50 • Number of users 50 • Password oport/import Yes • Password oports Yes • Character sets		
• Number of user groups 60 • Number of user groups 50 • Number of users 50 • Password exportimport Yes • SIMATIC Logon No Character set		
Number of users32Number of users30Password export/importYesSMATIC LogonNoCharacter stels		50
Number of users50Password export/importYesSIMATIC LogonNoCharacter sets		
Password export/importYesSIMATIC LogonNoCharacter sets	•	
• SIMATIC Logon No Character sais - US English Yes - US English Yes Transfer (uplocationmona) - • USB No • USS No • USS No • USS Yes • S7-1500 Yes • S7-203 Yes • S7-204 Yes • USOC01 Yes • USOC01 Yes • UNRCK Yes: No access to NCK data • SIMUMERIK Yes: No access to NCK data • SIMUMERIK Yes: No access to NCK data • SIMOTION Yes • Allen Bradley (DF1) Yes • Mitsubish (MC TCPIP) No • Mitsubish (MC TCPIP) No • Mitsubish (MC TCPIP) No • Modicon (Modus) Yes • Backup/Restore manually Yes • Backup/Restore manually Yes • Backup/Restore manually Yes <t< td=""><td></td><td></td></t<>		
Character sets • Keyboard fonts - US English Yes Transfer (upload/download) • MP/PROFIBUS DP Yes USB • USP • USP • USP • USB • S7-1200 • S7-1200 • S7-1200 • S7-300400 Yes • SinVINCEN • WinAC Yes • SINDTION • Allen Bradley (EherNet/IP) No • Allen Bradley (CherNet/IP) No • Mitsubish (KC TOP) No • Mitsubish (KT CP) No • Modicon (Modbus TCP/IP) No • BackupRestore manually		
• Keybaard fonts Yes US English Yes • MPL/PROFIBUS DP Yes • USB No • USB No • Ethernet No • USB No • Ethernet No • USB No • USB No • USS No • USD Yes • S7-1200 Yes • S7-200 Yes • S7-200 Yes • S7-200 Yes • UOCOI Yes • S7-200 Yes • SNUMERIK Yes, No access to NCK data • SINUMERIK Yes, No access to NCK data • SINUMERIK Yes • Allen Bradley (DF1) Yes • Mitsubishi (MC TCP/IP) No • Mitsubishi (MC TCP/IP) No • Mitsubishi (MC Modbus TCP/IP) No • Modicon (Modbus) Yes • BackupRestore anualy Yes • BackupRestore anualy Yes • BackupRestore anual		
US English Yes Transfer (upload/download) . · MP/PRCFIBUS DP Yes · USB No · Ethernet No · using external storage medium No Process couping . · S7:1200 Yes · S7:7300 Yes · S7:7300/400 Yes · S7:7300/400 Yes · S7:7300/400 Yes · S00/400 Yes · S1MOLTCIN Yes · WinAC Yes · WinAC Yes · Miler Bradley (EtherNet/P) No · Allen Bradley (EtherNet/P) No · Milesubish (KC TCP)P) No · Milesubish (KC TCP)P) No · Modicon (Modus) Yes · Backup/Restore manually Yes · Backup/Restore manually Yes		
Transfer (upload/download) • MPUPROFIBUS DP Yes • USB No • USB external storage medium No Process coupling Yes • \$7-1500 Yes • \$7-700 Yes • \$7-700 Yes • \$7-700 Yes • \$7-700 Yes • \$7-200 Yes • \$7-200 Yes • \$7-200 Yes • \$7-300400 Yes • \$100 Yes	-	Yes
MPUPROFIGUS DP Ves USB No Ethernet No using external storage medium No Process coupling S7-1200 Yes S7-1200 Yes S7-300 Yes S7-300 Ves S1MOTION Yes S1MOTION Yes Mitsubishi (MC TCP/IP) No Mitsubishi (FX) Ves OMRON (FINS TCP) No Mitsubishi (FX) Ves Modicon (Modbus TCP/IP) No Simulation Yes Ves Peripherals(Dytione Terrotexter automatically No Simulation Yes Modicon (Modbus Terrotexter automatically No Simulation Yes Modicon (Modbus Terrotexter automatically No Simulatin Terrotexter automatically No Simulation Yes		
• EthemetNo• using external storage mediumNoProcess couplingYes• 57-1200Yes• 57-200Yes• 57-300/400Yes• 107-200Yes• 107-200No• 107-200Yes• 107-200No• 107-200No• 107-200No• 107-200No• 107-200No• 107-200Yes• 107-200Yes• 107-200Yes• 107-200Yes• 107-200Yes• 107-200No• 107-200No• 107-200Yes• 107-200Ye		Yes
• EthemetNo• using external storage mediumNoProcess couplingYes• 57-1200Yes• 57-200Yes• 57-300/400Yes• 107-200Yes• 107-200No• 107-200Yes• 107-200No• 107-200No• 107-200No• 107-200No• 107-200No• 107-200Yes• 107-200Yes• 107-200Yes• 107-200Yes• 107-200Yes• 107-200No• 107-200No• 107-200Yes• 107-200Ye		
Process coupling Yes • \$7.1200 Yes • \$7.1500 Yes • \$7.200 Yes • \$7.200 Yes • \$7.200 Yes • \$7.300/400 Yes • CGCol Yes • CGCol Yes • SINUMERIK Yes; No access to NCK data • SINOTION Yes • Allen Bradley (EherNet/IP) No • Allen Bradley (CF1) Yes • Mitsubishi (KC TCP) No • Mitsubishi (FX) Yes • OMRON (LINK/Multilink) Yes • Modicon (Modbus) Yes • Modicon (Modbus) Yes • Backup/Restore manually Yes • Backup/Restore manually Yes • Backup/Restore manually Yes • Device switchover Yes PeripheralStoptions Printer Printer No SiMATIC HMI MM memory card: Multi Media Card No SiMATIC HMI SD memory card: Secure Digital memory Yes Mechanics/material No Enclosure material (front) Yes • Auminum No • Stanles stel No Otimensions With of the housing front Width of the housi		
Process coupling Yes • \$7.1200 Yes • \$7.1500 Yes • \$7.200 Yes • \$7.200 Yes • \$7.200 Yes • \$7.300/400 Yes • CGCol Yes • CGCol Yes • SINUMERIK Yes; No access to NCK data • SINOTION Yes • Allen Bradley (EherNet/IP) No • Allen Bradley (CF1) Yes • Mitsubishi (KC TCP) No • Mitsubishi (FX) Yes • OMRON (LINK/Multilink) Yes • Modicon (Modbus) Yes • Modicon (Modbus) Yes • Backup/Restore manually Yes • Backup/Restore manually Yes • Backup/Restore manually Yes • Device switchover Yes PeripheralStoptions Printer Printer No SiMATIC HMI MM memory card: Multi Media Card No SiMATIC HMI SD memory card: Secure Digital memory Yes Mechanics/material No Enclosure material (front) Yes • Auminum No • Stanles stel No Otimensions With of the housing front Width of the housi	 using external storage medium 	No
• \$7.1200 Yes • \$7.1500 Yes • \$7.200 Yes • \$7.300/400 Yes • LOGOI Yes • WinAC Yes • WinAC Yes • SINUMERIK Yes, No access to NCK data • NinAC Yes • Allen Bradley (EherNet/IP) No • Allen Bradley (DF1) Yes • Misubishi (KC TCP/IP) No • Misubishi (KC TCP/IP) No • Misubishi (KC TCP/IP) No • Molicon (Modbus TCP/IP) No • Modicon (Modbus) Yes • Modicon (Modbus) Yes • Service tools/configuration aids Yes • Backup/Restore manually Yes • Backup/Restore manually Yes • Backup/Restore manually Yes • Backup/Restore manually Yes • Divice switchover Yes Printer No SiMATIC HMI MM memory card: Multi Media Card No VLSB memory Yes Mechanics/material No Enclosure material (front) Yes • Plasic Yes • Moding utout, width No • Stainless steal No • Stainless steal <t< td=""><td></td><td></td></t<>		
• S7-200 Yes • CiGOI Yes • WinAC Yes • WinAC Yes • SINUMERIK Yes • SIMOTION Yes • Allen Bradley (EtherNet/IP) No • Mitsubishi (MC TCP/IP) No • Mitsubishi (FX) Yes • OMRON (FINS TCP) No • OMRON (LINK/Mutilink) Yes • Modicon (Modbus TCP/IP) No • Modicon (Modbus TCP/IP) No • Modicon (Modbus TCP/IP) No • Backup/Restore manually Yes • Backup/Restore manually Yes • Backup/Restore manually Yes • Device switchover Yes • Printer No • SiMATIC HMI MM memory card: Secure Digital memory card: No • SiMATIC HMI MM memory card: Secure Digital memory card Yes • Mechanics/material No • Printer No • SiMATIC HMI MM memory card: Secure Digital memory card: Yes • Molinium No • Silmatics/material No • Printer No •		Yes
• S7-300/400 Yes • LOGOI Yes • WinAC Yes • SINUMERIK Yes, No access to NCK data • SINUMERIK Yes, No access to NCK data • SINDTION Yes • Allen Bradley (DF1) No • Allen Bradley (DF1) Yes • Mitsubishi (MC TCP/IP) No • OMRON (FINS TCP) No • OMRON (FINS TCP) No • Modicon (Modbus TCP/IP) No • Backup/Restore manually Yes • Backup/Restore manually Yes • Backup/Restore manually Yes • Device switchover Yes Poripherals/Options Yes Printer No SiMATIC HMI MM memory card: Secure Digital memory ves Mochanics/material Enclosure material (front) Yes • Plastic Yes • Aluminum No	• S7-1500	Yes
• LOGOI Yes • WinAC Yes • WinAC Yes • SINUMERIK Yes; No access to NCK data • SINUTION Yes • Allen Bradley (EtherNet/IP) No • Allen Bradley (CP1) Yes • Mitsubish (MC TCP/IP) No • Mitsubish (FX) Yes • OMRON (FINS TCP) No • Modicon (Modbus) Yes • Modicon (Modbus) Yes Service tools/configuration aids Service tools/configuration aids Service tools/configuration aids Yes • Backup/Restore automatically No • Backup/Restore automatically No • Device switchover Yes Peripherals/Options No SiMATIC HMI MM memory card: Secure Digital memory card: Secure Digital memory card: Secure Digital memory card: Secure Digital memory No SiMATIC HMI SD memory card: Secure Digital memory card: Secure Digital memory card: Secure Digital memory card: Secure Digital memory No • Plastic Yes • Aluminum No • Stainless steel No • Vidth of the housing front 330 mm • Height of housing front 445 mm Mounting cutout, width 310 mm Mounting cutout, height 21 mm </td <td>• S7-200</td> <td>Yes</td>	• S7-200	Yes
• WinACYes• SINUMERIKYes; No access to NCK data• SIMOTIONYes• Allen Bradley (EtherNet/IP)No• Allen Bradley (DF1)Yes• Mitsubishi (MC TCP/IP)No• Mitsubishi (FX)Yes• OMRON (FINS TCP)No• OMRON (INK/Mutilink)Yes• Modicon (Modbus TCP/IP)No• Backup/Restore automaticallyYes• Backup/Restore automaticallyNo• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYes• D	• S7-300/400	Yes
• SINUMERIK Yes; No access to NCK data • SIMOTION Yes • Allen Bradley (EtherNet/IP) No • Allen Bradley (DF1) Yes • Mitsubishi (MC TCP/IP) No • Mitsubishi (FX) Yes • OMRON (FINS TCP) No • OMRON (LINK/Multilink) Yes • Modicon (Modbus TCP/IP) No • Modicon (Modbus) Yes • Backup/Restore manually Yes • Backup/Restore automatically No • Simulation Yes • Device switchover Yes Printer No SIMATIC HMI ISD memory card: Multi Media Card No SIMATIC HMI SD memory card: Secure Digital memory rad vard Yes Mechanics/material Yes Enclosure material (front) Yes • Plastic Yes • Aluminum No • Stainess steel No Oimensions 330 mm Multi of the housing front 245 mm Height of housing front 221 mm	• LOGO!	Yes
SIMOTIONYesAllen Bradley (EtherNet/IP)NoAllen Bradley (DF1)YesMitsubishi (MC TCP/IP)NoMitsubishi (MC TCP/IP)NoOMRON (FINS TCP)NoOMRON (LINK/Multilik)YesModicon (Modbus TCP/IP)NoModicon (Modbus TCP/IP)NoModicon (Modbus TCP/IP)NoModicon (Modbus TCP/IP)NoBackup/Restore manuallyYesService tools/configuration aidsPartice switchoverYesBackup/Restore automaticallyNoSimulationYesPeripherals/OptionsPrinterNoSiMATIC HMI MD memory card: Multi Media CardNoSiMATIC HMI SD memory card: Secure Digital memory cardNoUSB memoryYesMechanics/materialYesEnclosure material (front)Yes• PlasticYes• AluminumNo• Stainless stealNoDimonsionsYesWidth of the housing front330 mmHeight of housing front245 mmMounting cutout, width310 mmMounting cutout, height221 mm	• WinAC	Yes
• Allen Bradley (EtherNet/IP)No• Allen Bradley (DF1)Yes• Mitsubishi (KX)Yes• OMRON (FINS TCP)No• OMRON (FINS TCP)No• OMRON (ILNK/Multilink)Yes• Modicon (Modbus TCP/IP)No• Modicon (Modbus)YesService tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYes• Discover of the memory card: Multi Media CardNoSiMATIC HMI SD memory card: Secure Digital memory cardNoSiMATIC HMI SD memory card: Secure Digital memory cardYes• Devices material (front)Yes• PlasticYes• AluminumNo• Stainless steelNo• DimensionsYes• Modit of the housing front330 mm• Height of housing front245 mm• Mounting cutout, width310 mm• Mounting cutout, height221 mm	• SINUMERIK	Yes; No access to NCK data
• Allen Bradley (DF1) Yes • Mitsubishi (MC TCP/IP) No • Mitsubishi (FX) Yes • OMRON (FINS TCP) No • Modicon (Modbus TCP/IP) No • Backup/Restore nanually Yes Service tools/configuration aids Backup/Restore nanually • Backup/Restore automatically No • Backup/Restore automatically No • Simulation Yes • Device switchover Yes Printer No SIMATIC HMI MM memory card: Multi Media Card No SIMATIC HMI SD memory card: Secure Digital memory card No Var Yes Mochanics/material Forthort Enclosure material (front) Yes • Aluminum No • Stainless steel No Dimensions Yes Width of the housing front 330 mm Height of housing front 245 mm Mou	SIMOTION	Yes
• Mitsubishi (MC TCP/IP)No• Mitsubishi (FX)Yes• OMRON (FINS TCP)No• OMRON (LINK/Multilink)Yes• Modicon (Modbus TCP/IP)No• Modicon (Modbus TCP/IP)No• Modicon (Modbus)YesService tools/configuration aids• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYesPrinterNoSIMATIC HMI MM memory card: Multi Media CardNoSIMATIC HMI SM memory card: Secure Digital memory cardNoUSB memoryYesMechanics/materialNoEnclosure material (front)Yes• PlasticYes• AluminumNo• Stainless steelNoVidth of the housing front330 mmHeight of housing front245 mmMounting cutout, width310 mmMounting cutout, height221 mm	 Allen Bradley (EtherNet/IP) 	No
• Mitsubishi (FX) Yes • OMRON (FINS TCP) No • OMRON (LINK/Multilink) Yes • Modicon (Modbus TCP/IP) No • Modicon (Modbus) Yes Service tools/configuration aids Yes • Backup/Restore manually Yes • Backup/Restore automatically No • Simulation Yes • Device switchover Yes Peripherals/Options Yes Printer No SIMATIC HMI MM memory card: Multi Media Card No SIMATIC HMI SD memory card: Secure Digital memory card No SIMATIC HMI SD memory card: Secure Digital memory card No SIMATIC HMI SD memory card: Secure Digital memory card No SIMATIC HMI SD memory card: Secure Digital memory card No SIMATIC HMI SD memory card: Secure Digital memory card No SIMATIC HMI SD memory card: Secure Digital memory card No Simutian No • Aluminum No • Stainless steel No Dimensions 340 mm Width	 Allen Bradley (DF1) 	Yes
• OMRON (FINS TCP)No• OMRON (LINK/Multilink)Yes• Modicon (Modbus TCP/IP)No• Modicon (Modbus)YesService tools/configuration aids• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYesPeripherals/OptionsPrinterNoSIMATIC HMI MD memory card: Multi Media CardNoSIMATIC HMI SD memory card: Secure Digital memory cardNoSIMATIC HMI SD memory card: Secure Digital memory cardNoSimaticiFenclosure material (front)• PlasticYes• AluminumNo• Stainless steelNoVidth of the housing front330 mmHeight of housing front245 mmMounting cutout, height221 mm	 Mitsubishi (MC TCP/IP) 	No
• OMRON (LINK/Multilink)Yes• Modicon (Modbus TCP/IP)No• Modicon (Modbus)YesService tools/configuration aidsYes• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYesPeripherals/OptionsYesPrinterNoSIMATIC HMI MM memory card: Multi Media CardNoSIMATIC HMI SD memory card: Secure Digital memory cardYesUSB memoryYesMechanics/materialYesEnclosure material (front)Yes• PlasticYes• AluminumNo• Stainless steelNoOvidth of the housing front330 mmHeight of housing front245 mmMounting cutout, height221 mm	 Mitsubishi (FX) 	Yes
• Modicon (Modbus TCP/IP)No• Modicon (Modbus)YesService tools/configuration aids• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• Backup/Restore automaticallyYes• Backup/Restore automaticallyNo• SimulationYesPeripherals/OptionsNoSIMATIC HMI MM memory card: Multi Media CardNoSIMATIC HMI SD memory card: Secure Digital memory cardNoUSB memoryYesMechanics/materialYesEnclosure material (front) • PlasticYes• PlasticYes• AluminumNo• Stainless steelNoVidth of the housing front330 mmHeight of housing front245 mmMounting cutout, height310 mmMounting cutout, height221 mm	OMRON (FINS TCP)	No
• Modicon (Modbus)YesService tools/configuration aids• Backup/Restore manuallyYes• Backup/Restore automaticallyNo• Backup/Restore automaticallyNo• SimulationYes• Device switchoverYesPeripherals/OptionsYesPrinterNoSIMATIC HMI Mm memory card: Multi Media CardNoSIMATIC HMI SD memory card: Secure Digital memory cardNoUSB memoryYesMechanics/materialYesEnclosure material (front) • Plastic • Aluminum • Stainless steelYesNoStainless steelNo330 mmHeight of housing front Height of housing front Mounting cutout, width Mounting cutout, height221 mm		Yes
Service tools/configuration aids • Backup/Restore manually Yes • Backup/Restore automatically No • Simulation Yes • Device switchover Yes Peripherals/Options Printer Printer No SIMATIC HMI Mm memory card: Multi Media Card No SIMATIC HMI SD memory card: Secure Digital memory card No card No USB memory Yes Mechanics/material Enclosure material (front) • Plastic Yes • Aluminum No • Stainless steel No Dimensions Width of the housing front Height of housing front 245 mm Mounting cutout, width 310 mm		No
• Backup/Restore manually Yes • Backup/Restore automatically No • Simulation Yes • Device switchover Yes Peripherals/Options Yes Printer No SIMATIC HMI MM memory card: Multi Media Card No SIMATIC HMI SD memory card: Secure Digital memory card No SIMATIC HMI SD memory card: Secure Digital memory card No VBB memory Yes Mechanics/material Ves Enclosure material (front) Yes • Plastic Yes • Aluminum No • Stainless steel No Dimensions 330 mm Height of housing front 245 mm Mounting cutout, width 310 mm Mounting cutout, height 221 mm		Yes
• Backup/Restore automatically No • Simulation Yes • Device switchover Yes • Deripherals/Options Peripherals/Options Printer No SIMATIC HMI MM memory card: Multi Media Card No SIMATIC HMI SD memory card: Secure Digital memory card No SIMATIC HMI SD memory card: Secure Digital memory card No SIMATIC HMI SD memory card: Secure Digital memory card No USB memory Yes Mechanics/material Ves Enclosure material (front) Yes • Plastic Yes • Aluminum No • Stainless steel No Dimensions 330 mm Width of the housing front 245 mm Mounting cutout, width 310 mm	-	
• SimulationYes• Device switchoverYesPeripherals/OptionsPrinterNoSIMATIC HMI MM memory card: Multi Media CardNoSIMATIC HMI SD memory card: Secure Digital memory cardNoUSB memoryYesMechanics/materialYesEnclosure material (front) • Plastic • Aluminum • Stainless steelYesDimensionsNoWidth of the housing front330 mmHeight of housing front245 mmMounting cutout, width310 mmMounting cutout, height221 mm		
• Device switchoverYesPeripherals/OptionsPrinterNoSIMATIC HMI MM memory card: Multi Media CardNoSIMATIC HMI SD memory card: Secure Digital memory cardNoUSB memoryYesMechanics/materialImage: Secure Digital memory YesEnclosure material (front)Yes• PlasticYes• AluminumNo• Stainless steelNoDimensions330 mmWidth of the housing front330 mmHeight of housing front310 mmMounting cutout, width310 mmMounting cutout, height221 mm	-	
Peripherals/Options Printer No SIMATIC HMI MM memory card: Multi Media Card No SIMATIC HMI SD memory card: Secure Digital memory card No USB memory Yes Mechanics/material Yes Enclosure material (front) Yes • Plastic Yes • Aluminum No • Stainless steel No Dimensions 330 mm Width of the housing front 245 mm Mounting cutout, width 310 mm Mounting cutout, height 221 mm		
Printer No SIMATIC HMI MM memory card: Multi Media Card No SIMATIC HMI SD memory card: Secure Digital memory No card No USB memory Yes Mechanics/material Image: Secure Digital memory Enclosure material (front) Yes • Plastic Yes • Aluminum No • Stainless steel No Dimensions 330 mm Height of housing front 245 mm Mounting cutout, width 310 mm Mounting cutout, height 221 mm		Yes
SIMATIC HMI MM memory card: Multi Media Card No SIMATIC HMI SD memory card: Secure Digital memory No card No USB memory Yes Mechanics/material Yes Enclosure material (front) Yes • Plastic Yes • Aluminum No • Stainless steel No Dimensions 330 mm Height of housing front 245 mm Mounting cutout, width 310 mm Mounting cutout, height 221 mm		
SIMATIC HMI SD memory card: Secure Digital memory cardNoUSB memoryYesMechanics/materialYesEnclosure material (front) • Plastic • Aluminum • Stainless steelYesAluminum • Stainless steelNoDimensionsYesWidth of the housing front Height of housing front330 mmHeight of housing front Mounting cutout, width Mounting cutout, height310 mm		
cardYesUSB memoryYesMechanics/materialImage: Stain St		
Mechanics/materialEnclosure material (front)• Plastic• Aluminum• Aluminum• Stainless steelNoDimensionsWidth of the housing frontHeight of housing front245 mmMounting cutout, width310 mmMounting cutout, height221 mm	card	
Enclosure material (front)• PlasticYes• AluminumNo• Stainless steelNoDimensionsWidth of the housing front330 mmHeight of housing front245 mmMounting cutout, width310 mmMounting cutout, height221 mm		Yes
• PlasticYes• AluminumNo• Stainless steelNoDimensions330 mmWidth of the housing front330 mmHeight of housing front245 mmMounting cutout, width310 mmMounting cutout, height221 mm	Mechanics/material	
• AluminumNo• Stainless steelNoDimensionsWidth of the housing front330 mmHeight of housing front245 mmMounting cutout, width310 mmMounting cutout, height221 mm	Enclosure material (front)	
• Stainless steelNoDimensions330 mmWidth of the housing front330 mmHeight of housing front245 mmMounting cutout, width310 mmMounting cutout, height221 mm	Plastic	Yes
Dimensions Width of the housing front 330 mm Height of housing front 245 mm Mounting cutout, width 310 mm Mounting cutout, height 221 mm	Aluminum	No
Width of the housing front330 mmHeight of housing front245 mmMounting cutout, width310 mmMounting cutout, height221 mm	Stainless steel	No
Height of housing front 245 mm Mounting cutout, width 310 mm Mounting cutout, height 221 mm	Dimensions	
Height of housing front245 mmMounting cutout, width310 mmMounting cutout, height221 mm	Width of the housing front	330 mm
Mounting cutout, width 310 mm Mounting cutout, height 221 mm		245 mm
		310 mm
Overall depth 60 mm	Mounting cutout, height	221 mm
	Overall depth	60 mm

Weights	
Weight (without packaging)	1 710 g
Weight (with packaging)	2.2 kg
last modified:	10/8/2021 🖸