Data sheet

6AV2124-0MC24-1AB0



SIMATIC HMI TP1200 Comfort Pro Supporting foot, neutral front, Comfort Panel, touch operation, 12" widescreen TFT display, 16 million colors, PROFINET interface, MPI/PROFIBUS DP interface, 12 MB configuration memory, WEC 2013, configurable from WinCC Comfort V14 SP1 with HSP

General information	
Product type designation	SIMATIC HMI TP1200 Comfort PRO
Display	
Design of display	TFT
Screen diagonal	12.1 in
Display width	261.1 mm
Display height	163.2 mm
Number of colors	16 777 216
Resolution (pixels)	
 Horizontal image resolution 	1 280 pixel
Vertical image resolution	800 pixel
Backlighting	
 MTBF backlighting (at 25 °C) 	80 000 h
Backlight dimmable	Yes; LED, dimmable
Control elements	
Keyboard fonts	
Keys with LED	No
System keys	No
Numeric keyboard	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
Design as touch screen	Yes; Projective-capacitive
Expansions for operator control of the process	
 Direct keys (touch buttons as S7 input I/O) 	40
Installation type/mounting	
Mounting	Pedestal
Mounting position	vertical
Mounting in portrait format possible	No
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)	1.5 A
Starting current inrush I2t	0.5 A²·s
Power	
Active power input, typ.	36 W

Processor	
Processor type	X86
Memory	
Flash	Yes
RAM	Yes
Memory available for user data	12 Mbyte
Type of output	
Info LED	No
Power LED	No
Error LED	No
Acoustics	
Buzzer	No
Speaker	Yes
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	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined
Number of RS 422 interfaces	0; together with RS 485
Number of USB interfaces	2; USB 2.0
Number of SD card slots	2
With software interfaces	No
Industrial Ethernet	
Industrial Ethernet status LED	3
 Number of ports of the integrated switch 	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
IRT	Yes
PROFIBUS	Yes
EtherNet/IP	Yes
MPI	Yes
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
WEB characteristics	
• HTTP	Yes
• HTTPS	Yes
• HTML	Yes
• XML	Yes
• CSS	Yes
Active X	Yes
 JavaScript 	Yes
• Java VM	No
Redundancy mode	
Media redundancy	
— MRP	Yes
Further protocols	
• CAN	No
• MODBUS	Yes
Interrupts/diagnostics/status information	
Diagnoses	
	Vac. C7 controller
 Diagnostic information readable 	Yes; S7 controller

EMC	
Emission of radio interference acc. to EN 55 011	
Limit class A, for use in industrial areas	Yes
 Limit class B, for use in residential areas 	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP65
NEMA (front)	
 Enclosure Type 4 at the front 	Yes
 Enclosure Type 4x at the front 	Yes
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	No; Available soon
EAC (formerly Gost-R)	No; Available soon
Ambient conditions	
Suited for indoor use	Yes
Suited for outdoor use	No
Ambient temperature during operation	
Operation (vertical installation)	
— For vertical installation, min.	0 °C
— For vertical installation, max.	45 °C
Operation (max. tilt angle)	
— At maximum tilt angle, min.	0 °C
— At maximum tilt angle, max.	40 °C
Ambient temperature during storage/transportation	00.00
• min.	-20 °C 60 °C
• max.	60 C
Relative humidity • Operation, max.	90 %; no condensation
Operating systems	90 %, no condensation
proprietary	No
pre-installed operating system	INC
 Windows CF 	Yes: Windows Embedded Compact 2013
Windows CE configuration / header	Yes; Windows Embedded Compact 2013
configuration / header	
configuration / header Message indicator	Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment)	Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output)	Yes Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible	Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management	Yes Yes Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible	Yes Yes Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal)	Yes Yes Yes Yes Yes Yes
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software	Yes Yes Yes Yes Yes Yes No
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal)	Yes Yes Yes Yes Yes Yes No No
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact	Yes Yes Yes Yes Yes Yes No No No
configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard	Yes Yes Yes Yes Yes Yes No No No No
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced	Yes Yes Yes Yes Yes Yes No No No No No No
configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal)	Yes Yes Yes Yes Yes Yes No No No No No No No
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal)	Yes Yes Yes Yes Yes Yes You No Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal)	Yes Yes Yes Yes Yes Yes Yes No No No No No No No No Ves; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software STEP 7 Basic (TIA Portal) STEP 7 Professional (TIA Portal) WinCC flexible Compact WinCC flexible Standard WinCC flexible Advanced WinCC Basic (TIA Portal) WinCC Comfort (TIA Portal) WinCC Advanced (TIA Portal) WinCC Professional (TIA Portal)	Yes Yes Yes Yes Yes Yes Yes No No No No No No No No Ves; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal)	Yes Yes Yes Yes Yes Yes Yes No No No No No No No No Ves; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal)	Yes Yes Yes Yes Yes Yes No No No No No No Ves; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
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Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal)	Yes Yes Yes Yes Yes No No No No No No No So Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Incompact • WinCC Advanced (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages • Number of online/runtime languages Project languages • Languages per project	Yes Yes Yes Yes Yes No No No No No No No So Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher Yes; V14 SP1 HSP and higher
Configuration / header Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Inguages • Number of online/runtime languages Project languages • Languages per project Functionality under WinCC (TIA Portal)	Yes Yes Yes Yes Yes No No No No No No No So Yes; V14 SP1 HSP and higher
Message indicator Alarm system (incl. buffer and acknowledgment) Process value display (output) Process value default (input) possible Recipe management Configuration software • STEP 7 Basic (TIA Portal) • STEP 7 Professional (TIA Portal) • WinCC flexible Compact • WinCC flexible Standard • WinCC flexible Advanced • WinCC Basic (TIA Portal) • WinCC Comfort (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Invited (TIA Portal) • WinCC Advanced (TIA Portal) • WinCC Professional (TIA Portal) • WinCC Professional (TIA Portal) Languages • Number of online/runtime languages Project languages • Languages per project Functionality under WinCC (TIA Portal) Libraries	Yes Yes Yes Yes Yes No No No No No No No So Yes; V14 SP1 HSP and higher

Pocket Word	Yes
Pocket Excel	Yes
PDF Viewer	Yes
Media Player	Yes
SIMATIC WinCC Sm@rtServer	Yes
SIMATIC WinCC Audit	Yes
Number of Visual Basic Scripts	Yes
Task planner	
• time-controlled	Yes
• task-controlled	Yes
Help system	
Number of characters per info text	70
Message system	
Number of alarm classes	32
Bit messages	
Number of bit messages	4 000
Analog messages	
Number of analog messages	200
S7 alarm number procedure	Yes
System messages HMI	Yes
System event, more (SIMATIC S7, SINUMERIK,	Yes
SIMOTION,)	
 Number of characters per message 	80
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
Message buffer	
— Number of entries	1 024
 Circulating buffer 	Yes
— retentive	Yes
— maintenance-free	Yes
Recipe management	
	300
Recipe management • Number of recipes	300 500
Recipe management	
Recipe management • Number of recipes • Data records per recipe	500
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory	500 1 000
Recipe management Number of recipes Data records per recipe Entries per data record	500 1 000 2 Mbyte
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables	500 1 000 2 Mbyte
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable	500 1 000 2 Mbyte Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device	500 1 000 2 Mbyte Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values	500 1 000 2 Mbyte Yes 2 048 400
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen	500 1 000 2 Mbyte Yes 2 048 400 Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing	500 1 000 2 Mbyte Yes 2 048 400 Yes Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays	500 1 000 2 Mbyte Yes 2 048 400 Yes Yes Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images	500 1 000 2 Mbyte Yes 2 048 400 Yes Yes Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays	500 1 000 2 Mbyte Yes 2 048 400 Yes Yes Yes Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default	500 1 000 2 Mbyte Yes 2 048 400 Yes Yes Yes Yes Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image	500 1 000 2 Mbyte Yes 2 048 400 Yes Yes Yes Yes Yes Yes Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images	500 1 000 2 Mbyte Yes 2 048 400 Yes Yes Yes Yes Yes Yes Yes Yes Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images	500 1 000 2 Mbyte Yes 2 048 400 Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Images slection by PLC	500 1 000 2 Mbyte Yes 2 048 400 Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image number in the PLC	500 1 000 2 Mbyte Yes 2 048 400 Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image objects	500 1 000 2 Mbyte Yes 2 048 400 Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image objects Number of objects per image	500 1 000 2 Mbyte Yes 2 048 400 Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Image selection by PLC Image objects Number of objects per image Text fields	500 1 000 2 Mbyte Yes 2 048 400 Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image objects Number of objects per image Text fields I/O fields	500 1 000 2 Mbyte Yes 2 048 400 Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list)	500 1 000 2 Mbyte Yes 2 048 400 Yes
Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list)	500 1 000 2 Mbyte Yes 2 048 400 Yes
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Recipe management Number of recipes Data records per recipe Entries per data record Size of internal recipe memory Recipe memory expandable Variables Number of variables per device Number of variables per screen Limit values Multiplexing Structures Arrays Images Number of configurable images Permanent window/default Global image Pop-up images Slide-in images Image selection by PLC Image objects Number of objects per image Text fields I/O fields Graphic I/O fields (graphics list) Symbolic I/O fields (text list)	500 1 000 2 Mbyte Yes 2 048 400 Yes

Graphic display	Yes
Icons	Yes
Geometric objects	Yes
Complex image objects	165
Number of complex objects per screen	20
Alarm view	Yes
Trend view	Yes
User view	Yes
Status/control	Yes
Sm@rtClient view	Yes
Recipe view	Yes
• f(x) trend view	Yes
System diagnostics view	Yes
Media Player	Yes
HTML browser	Yes
	Yes
PDF displayIP camera display	Yes
Bar graphs Sliders	Yes Yes
	Yes
Pointer instruments Applog/digital clock	
Analog/digital clock Liete	Yes
Lists • Number of text lists per project	500
Number of text lists per project Number of entries per text list	500 500
Number of entries per text list Number of graphical lists per project.	500
Number of graphics lists per project Number of actrice per graphics list	500
Number of entries per graphics list Archiving	500
-	50
Number of archives per device Number of archives per archives	20 000
Number of entries per archiveMessage archive	Yes
Process value archive	Yes
Archiving methods	165
Sequential archive	Yes
	Yes
Short-term archive Memory location	165
Memory card	Yes
USB memory Ethernet	Yes Yes
	Tes
Data storage format CSV	Yes
— TXT — RDB	Yes Yes
	162
Security • Number of user groups	50
Number of user groups Number of user gights	50 32
Number of user rightsNumber of users	50
Password export/import	Yes
SIMATIC Logon	Yes
Logging through printer	1 53
Alarms	Yes
Report (shift log)	Yes
Herdcopy	Yes
Electronic print to file	Yes; PDF, HTML
Character sets	165,1 DI, IIINIL
Keyboard fonts US English	Voe
— US English	Yes
Transfer (upload/download)	Voc
MPI/PROFIBUS DP USB	Yes
• USB	Yes
Ethernet Weing outernal storage medium	Yes
 using external storage medium 	Yes

Process coupling	
• S7-1200	Yes
• S7-1500	Yes
• S7-200	Yes
• S7-300/400	Yes
• LOGO!	Yes
• WinAC	Yes
• SINUMERIK	Yes; With SINUMERIK option package as from WinCC V15 or higher
• SIMOTION	Yes
 Allen Bradley (EtherNet/IP) 	Yes
Allen Bradley (DF1)	Yes
Mitsubishi (MC TCP/IP)	Yes
Mitsubishi (FX)	Yes
OMRON (FINS TCP)	No
 OMRON (LINK/Multilink) 	Yes
 Modicon (Modbus TCP/IP) 	Yes
 Modicon (Modbus) 	Yes
OPC UA Client	Yes
OPC UA Server	Yes
Service tools/configuration aids	
 Backup/Restore manually 	Yes
 Backup/Restore automatically 	Yes
Simulation	Yes
Device switchover	Yes
Peripherals/Options	
Printer	Yes
SIMATIC HMI MM memory card: Multi Media Card	Yes; Up to 128 MB
SIMATIC HMI SD memory card: Secure Digital memory card	Yes; Up to 2 GB
SIMATIC HMI CF memory card Compact Flash Card	No
USB memory	Yes
SIMATIC IPC USB Flashdrive (USB stick)	Yes; Up to 16 GB
SIMATIC HMI USB stick	Yes; Up to 8 GB
Network camera	Yes
Mechanics/material	
Enclosure material (front)	
• Plastic	No
Aluminum	Yes
Stainless steel	No
Dimensions	
Width of the housing front	313 mm
Height of housing front	226 mm; Without basic adapter
Overall depth	101 mm; Without basic adapter
Weights	
Weight (without packaging)	4.9 kg

last modified: 3/2/2021 🖸