Data sheet

SIPLUS HMI MTP1200 Unified Comfort, with conformal coating based on $6 \mbox{AV} 2128\mbox{-}3 \mbox{MB06-0AX} 1$



Figure similar

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General information	
Product type designation	MTP1200 Unified Comfort
based on	6AV2128-3MB06-0AX1-Z A06+S00 (A5E51779631)
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) 	50 000 h; At 25°C
Backlight dimmable	Yes; 5-100 %
Control elements	
Keyboard fonts	
Numeric keyboard	Yes; Onscreen keyboard
alphanumeric keyboard	Yes; Onscreen keyboard
Touch operation	
 Design as touch screen 	Yes
Design as multi-touch screen	Yes
Installation type/mounting	
Mounting position	vertical
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)	0.6 A
Current consumption, max.	1.3 A
Starting current inrush I2t	0.5 A²-s
Memory	
Flash	Yes

RAM	Yes
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	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	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2
Industrial Ethernet	
Industrial Ethernet status LED	2
Number of ports of the integrated switch	2
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	No
Protocols (Ethernet)	
• TCP/IP	Yes
• DHCP	Yes
• SNMP	Yes
• DCP	Yes
• LLDP	Yes
Redundancy mode	
Media redundancy	
— MRP	Yes
EMC	
Emission of radio interference acc. to EN 55 011	
	Yes
Emission of radio interference acc. to EN 55 011	Yes No
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas	
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas	
Emission of radio interference acc. to EN 55 011 Limit class A, for use in industrial areas Limit class B, for use in residential areas Degree and class of protection	No
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front)	No IP65
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear)	No IP65
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front)	No IP65 IP20
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front	No IP65 IP20 Yes
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front	No IP65 IP20 Yes
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions	IP65 IP20 Yes No
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use	IP65 IP20 Yes No
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use	IP65 IP20 Yes No
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Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation)	No IP65 IP20 Yes No Yes No
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min.	No IP65 IP20 Yes No Yes No O °C; = Tmin
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max.	No IP65 IP20 Yes No Yes No O °C; = Tmin
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Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min.	No IP65 IP20 Yes No Yes No O °C; = Tmin 50 °C; = Tmax O °C; = Tmin
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Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min.	No IP65 IP20 Yes No Yes No No Yes No No No No No No No N
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, min. — For vertical installation, min. — For vertical installation, max.	No IP65 IP20 Yes No Yes No 0 °C; = Tmin 50 °C; = Tmax 0 °C; = Tmax 0 °C; = Tmax
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Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, max. Operation (vertical installation, portrait format) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle, portrait format)	No IP65 IP20 Yes No Yes No 0 °C; = Tmin 50 °C; = Tmax 0 °C; = Tmax 0 °C; = Tmin 40 °C; = Tmin 40 °C; = Tmax
Emission of radio interference acc. to EN 55 011 • Limit class A, for use in industrial areas • Limit class B, for use in residential areas Degree and class of protection IP (at the front) IP (rear) NEMA (front) • Enclosure Type 4x at the front • Enclosure Type 12 at the front Ambient conditions Suited for indoor use Suited for outdoor use Ambient temperature during operation Operation (vertical installation) — For vertical installation, min. — For vertical installation, max. Operation (max. tilt angle) — At maximum tilt angle, min. — At maximum tilt angle, mon. — For vertical installation, portrait format) — For vertical installation, min. — For vertical installation, max. Operation (vertical installation, max. Operation (max. tilt angle, portrait format) — For vertical installation, max. Operation (max. tilt angle, portrait format) — At maximum tilt angle, min. — At maximum tilt angle, min. — At maximum tilt angle, min.	No IP65 IP20 Yes No No Yes No No No No No No No N

a may	60 °C
Max. Altitude during operation relating to sea level.	60 C
Altitude during operation relating to sea level Installation altitude above sea level, max.	5 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax
• Ambient all temperature-barometric pressure-antitude	- 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 condensation present), horizontal at vertical mounting position
Resistance	
Coolants and lubricants	
 Resistant to commercially available coolants and lubricants 	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
 to biologically active substances according to EN 60721-3-3 	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of 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, fungal and dry rot spores (excluding fauna)
 to chemically active substances according to EN 60721-3-6 	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
 to mechanically active substances according to EN 60721-3-6 	Yes; Class 6S3 incl. sand, dust; *
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	
 Coatings for printed circuit board assemblies acc. to EN 61086 	Yes; Class 2 for high reliability
 Protection against fouling acc. to EN 60664-3 	Yes; Type 1 protection
 Military testing according to MIL-I-46058C, Amendment 7 	Yes; Discoloration of coating possible during service life
 Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC- CC-830A 	Yes; Conformal coating, Class A
Operating systems	
proprietary	Yes
configuration / header	
Message indicator	Yes
Alarm system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes
Configuration software	
 WinCC Unified Comfort Engineering (TIA Portal) 	Yes
 WinCC Unified PC Engineering (TIA Portal) 	Yes
Languages	
Online languages	
 Number of online/runtime languages 	32
Project languages	
Languages per project	32
Functionality under WinCC Unified	
Libraries	Yes
Applications/options	
• Writer	Yes
Web browser	Yes

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Media Player SIMATIC Wince Compatible rate	Yes
SIMATIC WinCC Sm@rtServer SIMATIC WinCC Audit	Yes
SIMATIC WinCC Audit	No
Unified Collaboration Local Control	Yes
JavaScript	Yes
Task planner	
• time-controlled	Yes
• task-controlled	Yes
Help system	
Number of characters per info text	70
Number of message texts per message	10
functionality under WinCC Unified / alarm system / header	
Number of alarm classes	32
Bit messages	
 Number of bit messages 	9 000
Analog messages	
 Number of analog messages 	300
S7 alarm number procedure	Yes
System messages HMI	Yes
 System messages, other (SIMATIC S7, Sinumerik, Simotion, etc.) 	Yes
 Number of characters per message 	512
 Number of process values per message 	10
 Acknowledgment groups 	Yes
Message indicator	No
Message buffer	Yes; Configured as alarm archive
 Circulating buffer 	Yes
— retentive	Yes
— maintenance-free	Yes
Parameter set management (recipes)	
 Number of parameter set types 	750
 Parameter sets per parameter set type 	2 000
 Entries per parameter set 	1 000
Parameter set memory expandable	Yes
functionality under WinCC Unified / variables / header	
 Number of variables per device 	8 000
 Number of variables per screen 	600
Limit values	Yes
Structures	Yes
Arrays	Yes
functionality under WinCC Unified / screens / header	
Number of configurable images	1 200
Faceplate	Yes
Image objects	
Number of objects per image	800
Picture window	Yes
Text fields	Yes
• I/O fields	Yes
Graphic I/O fields (graphics list)	Yes
Symbolic I/O fields (text list)	Yes
Scalable Vector Graphics (SVG)	Yes
Date/time fields	Yes
Checkbox	Yes
Option button	Yes
• Switches	Yes
Buttons	Yes
Graphic display	Yes
• Icons	Yes
Custom web display	Yes
Geometric objects	Yes
functionality under WinCC Unified / complex screen objects / hea	
rundadriality under windo drillied / complex screen objects / flex	auci

 Number of complex objects per screen 	40
Alarm view	Yes
Trend view	Yes
• User view	Yes
Status/control	No
Parameter set display	Yes
HTML browser	Yes
Bar graphs	Yes
• Sliders	Yes
Pointer instruments	Yes
	Yes
Analog/digital clock Analog/digital clock	res
functionality under WinCC Unified / lists / header	
Number of text lists per project	750
 Number of entries per text list 	750
 Number of graphics lists per project 	750
Number of entries per graphics list	750
functionality under WinCC Unified / archiving / header	
 Number of archives per device 	50
 Number of entries per archive 	500 000
Message archive	Yes
Process value archive	Yes
• type of archiving / for WinCC Unified	
— Sequential archive	Yes
— Short-term archive	Yes
storage location / of archiving / for WinCC Unified	
Memory card	Yes
•	
— USB memory	Yes
— Ethernet	No
Security	
Number of roles	50
 Number of function rights 	0; V16
Number of users	200
 Password export/import 	Yes
Central user administration	Yes; as of WinCC V17
functionality under WinCC Unified / transfer (upload/download) / he	eader
• USB	No
· · · · · · · · · · · · · · · · · · ·	No Yes
USB Ethernet	
USB Ethernet using external storage medium	Yes
USB Ethernet using external storage medium Process coupling	Yes; as of WinCC Unified V17
 USB Ethernet using external storage medium Process coupling \$7-1200 	Yes Yes; as of WinCC Unified V17 Yes
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 	Yes; as of WinCC Unified V17 Yes Yes
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 	Yes; as of WinCC Unified V17 Yes Yes Yes Yes
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 	Yes; as of WinCC Unified V17 Yes Yes Yes Yes No Yes
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections 	Yes Yes; as of WinCC Unified V17 Yes Yes No Yes 16
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-300/400 Number of \$7 connections LOGO! 	Yes; as of WinCC Unified V17 Yes Yes Yes No Yes 16 No
 USB Ethernet using external storage medium Process coupling \$7-1200 \$7-1500 \$7-200 \$7-200 \$7-300/400 Number of \$7 connections LOGO! \$IMOTION 	Yes; as of WinCC Unified V17 Yes Yes Yes No Yes No No No
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client	Yes; as of WinCC Unified V17 Yes Yes Yes No Yes 16 No No No
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server	Yes; as of WinCC Unified V17 Yes Yes No Yes No No No No No
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller	Yes; as of WinCC Unified V17 Yes Yes No Yes No No No No No No No
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server	Yes; as of WinCC Unified V17 Yes Yes No Yes No No No No No No No
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller	Yes; as of WinCC Unified V17 Yes Yes No Yes No No No No No No No
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools	Yes Yes; as of WinCC Unified V17 Yes Yes No Yes 16 No
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools Backup/Restore manually	Yes; as of WinCC Unified V17 Yes Yes Yes No Yes 16 No
USB Ethernet using external storage medium Process coupling S7-1200 S7-1200 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools Backup/Restore manually Backup/Restore automatically	Yes; as of WinCC Unified V17 Yes Yes No Yes 16 No No No No No No No Yes Yes Yes
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools Backup/Restore manually Backup/Restore automatically Simulation Device switchover	Yes; as of WinCC Unified V17 Yes Yes No Yes 16 No No No No No No Ves Yes Yes Yes Yes Yes Yes
USB Ethernet using external storage medium Process coupling S7-1200 S7-1500 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tool: Backup/Restore manually Backup/Restore automatically Simulation Device switchover	Yes; as of WinCC Unified V17 Yes Yes No Yes 16 No No No No No No S / header Yes Yes Yes Yes Yes Yes
USB Ethernet using external storage medium Process coupling S7-1200 S7-1200 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tool: Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Peripherals	Yes; as of WinCC Unified V17 Yes Yes Yes No Yes 16 No No No No No S / header Yes Yes Yes Yes Yes Yes Yes Yes
USB Ethernet using external storage medium Process coupling S7-1200 S7-1200 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tools Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Peripherals Printer	Yes; as of WinCC Unified V17 Yes Yes Yes No Yes 16 No No No No No S / header Yes Yes Yes Yes Yes Yes Yes Yes Yes
USB Ethernet using external storage medium Process coupling S7-1200 S7-1200 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tool Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Peripherals Printer SIMATIC HMI MM memory card: Multi Media Card	Yes Yes; as of WinCC Unified V17 Yes Yes No Yes 16 No No No No No S / header Yes
USB Ethernet using external storage medium Process coupling S7-1200 S7-1200 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tool Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Peripherals Printer SIMATIC HMI MM memory card: Multi Media Card SIMATIC HMI SD memory card: Secure Digital memory card	Yes Yes; as of WinCC Unified V17 Yes Yes No Yes 16 No No No No No S / header Yes
USB Ethernet using external storage medium Process coupling S7-1200 S7-1200 S7-200 S7-200 S7-300/400 Number of S7 connections LOGO! SIMOTION OPC UA Client OPC UA Server Software Controller/Open Controller functionality under WinCC Unified / service tools/configuration tool Backup/Restore manually Backup/Restore automatically Simulation Device switchover Peripherals/Options Peripherals Printer SIMATIC HMI MM memory card: Multi Media Card	Yes Yes; as of WinCC Unified V17 Yes Yes No Yes 16 No No No No No S / header Yes

SIMATIC IPC USB Flashdrive (USB stick)	Yes
SIMATIC HMI USB stick	Yes
Network camera	No
Mechanics/material	
Enclosure material (front)	
Aluminum	Yes
Dimensions	
Width of the housing front	326 mm
Height of housing front	237 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	64 mm
Weights	
Weight (without packaging)	2.8 kg

last modified:

