Advanced HMI Panel-based

SIMATIC HMI Unified Comfort Panels

Overview



SIMATIC HMI Unified Comfort Panels

The new generation of high-end, 7-22-inch HMI devices, part of the new SIMATIC WinCC Unified System, boasts numerous improvements over the predecessor devices in terms of performance, openness and user-friendliness.

Thanks to their capacitive glass front with multi-touch technology, the Unified Comfort Panels are as convenient to use as a smartphone or tablet. The sharp colors and high contrast improve the readability and ease of use.

Visualization on the devices is based on SIMATIC WinCC Unified, the new visualization system in the TIA Portal. This opens up many new opportunities and functionalities for the user - across all

Brand new to the SIMATIC HMI product portfolio is the option to expand device functionality with apps. Previously, HMI Panels were used exclusively for visualization software. Thanks to the integration of Siemens Industrial Edge, users can now run other programs simultaneously alongside this standard device functionality. Project-specific requirements can thus be implemented quickly and easily.

The following SIMATIC HMI Unified Comfort Panels are available:

- Standard design:

 - MTP700 Comfort MTP1000 Comfort
 - MTP1200 Comfort
 - MTP1500 Comfort
 - MTP1900 Comfort
 - MTP2200 Comfort
- · Neutral design:
- MTP700 Comfort
- MTP1000 Comfort
- MTP1200 Comfort
- MTP1500 Comfort
- MTP1900 Comfort
- MTP2200 Comfort

Starter Kits are available for standard design devices.

These consist of:

- HMI Unified Comfort Panel
- WinCC Unified V16 Comfort
- EDGE Runtime for Unified Comfort (Device-managed) license
- 1.5 m PROFINET cable
- Memory card (32 GB)
- Protective film

More information is available at https://www.siemens.com/unified-comfort-panels

SIMATIC WinCC Unified options

- WinCC Unified Audit Basis
- WinCC Unified Clients (Operate Client and Monitor Client)
- WinCC Unified Database Storage
- WinCC Unified Logging
- WinCC Unified Parameter Control
- WinCC Unified Report Execution
- WinCC Unified Collaboration

Advanced HMI Panel-based Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Standard

Overview



SIMATIC HMI MTP2200 Unified Comfort Panel Standard design front view

SIMATIC HMI Unified Comfort Panels - standard devices

SIMATIC HMI Unified Comfort Panels consist of six different devices with varying display sizes.

All devices come with the same number of hardware interfaces and the same functionality – just select the perfect device for your needs based on the screen size.

Each Unified Comfort Panel is available in the standard design with Siemens and SIMATIC HMI branding and a silver-colored aluminum frame.

All Unified Comfort Panels come with integrated Edge functionality.

SIMATIC WinCC Unified contains visualization, communication, alarms/warnings, report creation, administration of parameter sets, archiving of user administration.

Furthermore, a WinCC Unified Client Operate (V17 or higher) for

Furthermore, a WinCC Unified Client Operate (V17 or higher) for remote operator control and monitoring, and a WinCC Unified Client Monitor (V18 or higher) for monitoring only are also included. Additional clients can be enabled with a license. Up to three client licenses can be used.

Client access is based on native web technologies such as HTML5, SVG and JavaScript. The visualization can be accessed via any modern web browser – without the need for additional installation.

Siemens Industrial Edge can be used in two different ways:

- Device-managed Edge
- Centrally-managed Edge (planned)

SIMATIC HMI Unified Comfort Panels can also be ordered with a neutral design.

Note:

The technical specifications of the neutral design devices correspond to the technical specifications of the devices with standard design.

Ordering data

Article No.

Touch devices for SIMATIC HMI Unified Comfort Panels

Standard design

SIMATIC HMI MTP700 Unified Comfort Panel

7" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD

6AV2128-3GB06-0AX1

SIMATIC HMI MTP1000 Unified Comfort Panel

10.1" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD

6AV2128-3KB06-0AX1

SIMATIC HMI MTP1200 Unified Comfort Panel

12.1" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD

6AV2128-3MB06-0AX1

SIMATIC HMI MTP1500 Unified Comfort Panel

15.6" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source SW which is provided free of charge. See enclosed DVD

6AV2128-3QB06-0AX1

SIMATIC HMI MTP1900 Unified Comfort Panel

18.5" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD

6AV2128-3UB06-0AX1

SIMATIC HMI Unified Comfort Panels Standard

Ordering data	Article No.		Article No.
SIMATIC HMI MTP2200 Unified Comfort Panel 21.5" widescreen TFT display, touch operation, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD Neutral design	6AV2128-3XB06-0AX1	SIMATIC HMI MTP1500 Unified Comfort Panel Neutral, touch operation; 15.6" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	6AV2128-3QB36-0AX1
SIMATIC HMI MTP700 Unified Comfort Panel Neutral, touch operation; 7* widescreen TFT display,	6AV2128-3GB36-0AX1	SIMATIC HMI MTP1900 Unified Comfort Panel Neutral, touch operation; 18.5" widescreen TFT display, 16 million colors,	6AV2128-3UB36-0AX1
16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD		PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	
SIMATIC HMI MTP1000 Unified Comfort Panel Neutral, touch operation; 10.1" widescreen TFT display, 16 million colors, PROFINET interface,	6AV2128-3KB36-0AX1	SIMATIC HMI MTP2200 Unified Comfort Panel Neutral, touch operation; 21.5" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from	6AV2128-3XB36-0AX1
configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD		WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	
SIMATIC HMI MTP1200 Unified Comfort Panel Neutral, touch operation; 12.1" widescreen TFT display, 16 million colors, PROFINET interface, configurable as from WinCC Unified Comfort V16; with additional certifications for explosion-proof areas and for use in marine engineering (see Technical specifications). Contains open source software, which is provided free of charge. See enclosed DVD	6AV2128-3MB36-0AX1	Software EDGE Runtime for SIMATIC Unified Comfort Runtime software, single license, license key for download, without software and documentation, Class A, email address required for delivery	6AV2170-2BA00-0AA0

Advanced HMI Panel-based Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Standard

Article number	6AV2128-3GB06- 0AX1 SIMATIC HMI MTP700 Unified Comfort	6AV2128-3KB06- 0AX1 SIMATIC HMI MTP1000 Unified Comfort	6AV2128-3MB06- 0AX1 SIMATIC HMI MTP1200 Unified Comfort	6AV2128-3QB06- 0AX1 SIMATIC HMI MTP1500 Unified Comfort	6AV2128-3UB06- 0AX1 SIMATIC HMI MTP1900 Unified Comfort	6AV2128-3XB06- 0AX1 SIMATIC HMI MTP2200 Unified Comfort
General information						
Product type designation	MTP700 Unified Comfort	MTP1000 Unified Comfort	MTP1200 Unified Comfort	MTP1500 Unified Comfort	MTP1900 Unified Comfort	MTP2200 Unified Comfort
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
 Horizontal image resolution 	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
 Vertical image resolution 	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
 MTBF backlighting (at 25 °C) 	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h; At 25°C
Control elements						
Touch operation						
Design as touch screen	Yes	Yes	Yes	Yes	Yes	Yes
 Design as multi-touch screen 	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V	24 V	24 V	24 V	24 V	24 V
Type of output						
Acoustics						
Speaker	No	No	No	No	No	No
Time of day						
Clock						
 Hardware clock (real-time) 	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks	Yes; Back-up duration typically 6 weeks
 synchronizable 	Yes	Yes	Yes	Yes	Yes	Yes
Interfaces						
Number of industrial Ethernet interfaces	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port	2; 2 ports (switch) + independent port
Number of RS 485 interfaces	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined	1; RS 422 / 485 combined
Number of USB interfaces	(type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
Number of ports of the integrated switch	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes

SIMATIC HMI Unified Comfort Panels Standard

Article number	6AV2128-3GB06- 0AX1	6AV2128-3KB06- 0AX1	6AV2128-3MB06- 0AX1	6AV2128-3QB06- 0AX1	6AV2128-3UB06- 0AX1	6AV2128-3XB06- 0AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
cULus Class I Zone 2. Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
FM Class I Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
Marine approval	103	103	103	103	103	103
Germanischer Lloyd (GL)	No; included in DN	IV				
American Bureau of Shipping (ABS)		Yes	Yes	Yes	Yes	Yes
Bureau Veritas (BV)	Yes	Yes	Yes	Yes	Yes	Yes
Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	Yes	Yes
Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes	Yes	Yes
Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	Yes	Yes
Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes	Yes	Yes	Yes
Chinese Classification Society (CCS)	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during						
operation						
Operation (vertical installation)						
- For vertical installation, min.	0 °C	0 °C	0 °C	0 °C	0 °C	0 °C
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
Operation, max.	90 %; no condensa	ation				
configuration / header						
Configuration software						
WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
WinCC Unified PC Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
Languages						
Online lenguages						
Online languages						

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SIMATIC HMI Unified Comfort Panels Standard

Article number	6AV2128-3GB06- 0AX1	6AV2128-3KB06- 0AX1	6AV2128-3MB06- 0AX1	6AV2128-3QB06- 0AX1	6AV2128-3UB06- 0AX1	6AV2128-3XB06- 0AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
Functionality under WinCC Unified						
Applications/options						
Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes					
Web browser	Yes	Yes	Yes	Yes	Yes	Yes
PDF Viewer	Yes					
Media Player	Yes	Yes	Yes	Yes	Yes	Yes
 SIMATIC WinCC Sm@rtServer 	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC WinCC Audit	Yes	Yes	Yes	Yes	Yes	Yes
 Unified Collaboration 	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No					
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
 time-controlled 	Yes	Yes	Yes	Yes	Yes	Yes
task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
functionality under WinCC Unified / alarm system / header						
Bit messages						
- Number of bit messages	9 000	9 000	9 000	9 000	9 000	9 000
Analog messages		000	000	000	000	000
- Number of analog messages	300	300	300	300	300	300
Message buffer	Yes; Configured as alarm archive	alarm archive	alarm archive	Yes; Configured as alarm archive	alarm archive	alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
Number of parameter set types	750	750	750	750	750	750
Size of internal parameter set	12 Mbyte			12 Mbyte		
memory	·			·		
Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
functionality under WinCC Unified / variables / header						
 Number of variables per device 	8 000	8 000	8 000	8 000	8 000	8 000
Number of variables per screen	600	600	600	800	800	800
functionality under WinCC Unified / screens / header						
Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
functionality under WinCC Unified / archiving / header						
Number of archives per device	50	50	50	50	50	50
Security						
Number of roles	50	50	50	50	50	50
Number of users	200	200	200	200	200	200
Central user administration	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17	Yes; as of WinCC V17
functionality under WinCC Unified / transfer (upload/download) / header	v	V	V	V	V	V
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling	V	V	V	V	V	V
• \$7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• \$7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• \$7-200	No	No	No	No	No	No
• \$7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
OPC UA Client OPC UA Compare	Yes	Yes	Yes	Yes	Yes	Yes
OPC UA Server Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes
Software Controller/Open Controller	168	Yes	Yes	Yes	Yes	Yes

SIMATIC HMI Unified Comfort Panels Standard

Article number	6AV2128-3GB06- 0AX1	6AV2128-3KB06- 0AX1	6AV2128-3MB06- 0AX1	6AV2128-3QB06- 0AX1	6AV2128-3UB06- 0AX1	6AV2128-3XB06- 0AX1
	SIMATIC HMI MTP700 Unified Comfort	SIMATIC HMI MTP1000 Unified Comfort	SIMATIC HMI MTP1200 Unified Comfort	SIMATIC HMI MTP1500 Unified Comfort	SIMATIC HMI MTP1900 Unified Comfort	SIMATIC HMI MTP2200 Unified Comfort
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Mechanics/material						
Enclosure material (front)						
Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	214 mm	280 mm	326 mm	398 mm	464 mm	529 mm
Height of housing front	158 mm	205 mm	237 mm	257 mm	294 mm	331 mm
Mounting cutout, width	197 mm	264 mm	310 mm	382 mm	448 mm	513 mm
Mounting cutout, height	141 mm	189 mm	221 mm	241 mm	278 mm	315 mm
Overall depth	64 mm	64 mm	64 mm	73 mm	73 mm	73 mm
Weights						
Weight (without packaging)	1.4 kg	2.1 kg	2.8 kg	4.3 kg	5.5 kg	6.9 kg

Advanced HMI Panel-based Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Standard

Article number	6AV2128-3GB36-	6AV2128-3KB36-	6AV2128-3MB36-	6AV2128-3QB36-	6AV2128-3UB36-	6AV2128-3XB36-
Article number	0AX1	0AX1	0AX1	0AX1	0AX1	0AX1
	SIMATIC HMI					
	MTP700 Unified Comfort Neutr	MTP1000 Unified Comfort Neut	MTP1200 Unified Comfort Neut	MTP1500 Unified Comfort Neut	MTP1900 Unified Comfort Neut	MTP2200 Unified Comfort Neut
General information	Comon neuti	Cornort Neut	Comon neut	Comon Neut	Comon Neut	Corniori Neut
Product type designation	MTP700 Unified	MTP1000 Unified	MTP1200 Unified	MTP1500 Unified	MTP1900 Unified	MTP2200 Unified
	Comfort	Comfort	Comfort	Comfort	Comfort	Comfort
Display						
Design of display	TFT	TFT	TFT	TFT	TFT	TFT
Screen diagonal	7 in	10.1 in	12.1 in	15.6 in	18.5 in	21.5 in
Number of colors	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216	16 777 216
Resolution (pixels)						
 Horizontal image resolution 	800 pixel	1 280 pixel	1 280 pixel	1 366 pixel	1 920 pixel	1 920 pixel
Vertical image resolution	480 pixel	800 pixel	800 pixel	768 pixel	1 080 pixel	1 080 pixel
Backlighting						
 MTBF backlighting (at 25 °C) 	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h; At 25°C	50 000 h	50 000 h; At 25°C	30 000 h; At 25°C
Control elements						
Touch operation						
 Design as touch screen 	Yes	Yes	Yes	Yes	Yes	Yes
Design as multi-touch screen	Yes	Yes	Yes	Yes	Yes	Yes
Installation type/mounting						
Mounting in portrait format possible	Yes	Yes	Yes	Yes	Yes	Yes
Supply voltage						
Rated value (DC)	24 V					
Type of output						
Acoustics						
Speaker	No	No	No	No	No	No
Time of day						
Clock						
Hardware clock (real-time)	Yes	Yes	Yes	Yes	Yes	Yes
• retentive	Yes; Back-up					
	duration typically 6 weeks					
synchronizable	Yes	Yes	Yes	Yes	Yes	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 USB interfaces	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)	4; USB 3.1 Gen. 1 (type A)
Number of SD card slots	2	2	2	2	2	2
Industrial Ethernet						
 Number of ports of the integrated switch 	2	2	2	2	2	2
Protocols						
PROFINET	Yes	Yes	Yes	Yes	Yes	Yes
Redundancy mode						
Media redundancy						
- MRP	Yes	Yes	Yes	Yes	Yes	Yes

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Article number	6AV2128-3GB36- 0AX1	6AV2128-3KB36- 0AX1	6AV2128-3MB36- 0AX1	6AV2128-3QB36- 0AX1	6AV2128-3UB36- 0AX1	6AV2128-3XB36- 0AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
Degree and class of protection						
IP (at the front)	IP65	IP65	IP65	IP65	IP65	IP65
IP (rear)	IP20	IP20	IP20	IP20	IP20	IP20
NEMA (front)						
• Enclosure Type 4x at the front	Yes	Yes	Yes	Yes	Yes	Yes
Enclosure Type 12 at the front	Yes	Yes	Yes	Yes	Yes	Yes
Standards, approvals, certificates						
CE mark	Yes	Yes	Yes	Yes	Yes	Yes
cULus	Yes	Yes	Yes	Yes	Yes	Yes
RCM (formerly C-TICK)	Yes	Yes	Yes	Yes	Yes	Yes
KC approval	Yes	Yes	Yes	Yes	Yes	Yes
EAC (formerly Gost-R)	Yes	Yes	Yes	Yes	Yes	Yes
CCC	Yes	Yes	Yes	Yes	Yes	Yes
Use in hazardous areas						
ATEX Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
ATEX Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 2	Yes	Yes	Yes	Yes	Yes	Yes
• IECEx Zone 22	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class I Zone 2, Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• cULus Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class I Division 2	Yes	Yes	Yes	Yes	Yes	Yes
• FM Class II Division 2	Yes	Yes	Yes	Yes	Yes	Yes
Marine approval	103	103	103	103	103	103
Germanischer Lloyd (GL)	No; included in DN	IV				
American Bureau of Shipping (ABS)		Yes	Yes	Yes	Yes	Yes
Bureau Veritas (BV)	Yes	Yes	Yes	Yes	Yes	Yes
Det Norske Veritas (DNV)	Yes	Yes	Yes	Yes	Yes	Yes
Korean Register of Shipping (KRS)	Yes	Yes	Yes	Yes	Yes	Yes
Lloyds Register of Shipping (LRS)	Yes	Yes	Yes	Yes	Yes	Yes
Nippon Kaiji Kyokai (Class NK)	Yes	Yes	Yes	Yes	Yes	Yes
Chinese Classification Society (CCS)	Yes	Yes	Yes	Yes	Yes	Yes
Ambient conditions						
Suited for indoor use	Yes	Yes	Yes	Yes	Yes	Yes
Suited for outdoor use	No	No	No	No	No	No
Ambient temperature during	110	110	110	110	110	110
operation						
Operation (vertical installation)						
- For vertical installation, min.	0 °C					
- For vertical installation, max.	50 °C	50 °C	50 °C	50 °C	45 °C	45 °C
Relative humidity						
Operation, max.	90 %; no condensa	ation				
configuration / header						
Configuration software						
WinCC Unified Comfort Engineering (TIA Portal)	Yes	Yes	Yes	Yes	Yes	Yes
WinCC Unified PC Engineering	Yes	Yes	Yes	Yes	Yes	Yes
(TIA Portal)						
(TIA Portal) Languages						
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Advanced HMI Panel-based Unified Comfort Panels

SIMATIC HMI Unified Comfort Panels Standard

Article number	6AV2128-3GB36- 0AX1	6AV2128-3KB36- 0AX1	6AV2128-3MB36- 0AX1	6AV2128-3QB36- 0AX1	6AV2128-3UB36- 0AX1	6AV2128-3XB36- 0AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
Functionality under WinCC Unified						
Applications/options						
Writer	Yes	Yes	Yes	Yes	Yes	Yes
• Calc	Yes					
Web browser	Yes	Yes	Yes	Yes	Yes	Yes
PDF Viewer	Yes					
Media Player	Yes	Yes	Yes	Yes	Yes	Yes
 SIMATIC WinCC Sm@rtServer 	Yes	Yes	Yes	Yes	Yes	Yes
 SIMATIC WinCC Audit 	Yes	Yes	Yes	Yes	Yes	Yes
 Unified Collaboration 	Yes	Yes	Yes	Yes	Yes	Yes
Number of Visual Basic Scripts	No					
JavaScript	Yes	Yes	Yes	Yes	Yes	Yes
Task planner						
 time-controlled 	Yes	Yes	Yes	Yes	Yes	Yes
task-controlled	Yes	Yes	Yes	Yes	Yes	Yes
functionality under WinCC Unified / alarm system / header						
Bit messages						
 Number of bit messages 	9 000	9 000	9 000	9 000	9 000	9 000
 Analog messages 						
- Number of analog messages	300	300	300	300	300	300
Message buffer	Yes; Configured as alarm archive	alarm archive	alarm archive	Yes; Configured as alarm archive	alarm archive	alarm archive
- Circulating buffer	Yes	Yes	Yes	Yes	Yes	Yes
- retentive	Yes	Yes	Yes	Yes	Yes	Yes
Parameter set management (recipes)						
Number of parameter set types	750	750	750	750	750	750
Size of internal parameter set	12 Mbyte	700	700	12 Mbyte	700	700
memory	12 Mbyto			12 Mbyte		
Parameter set memory expandable	Yes	Yes	Yes	Yes	Yes	Yes
functionality under WinCC Unified / variables / header						
 Number of variables per device 	8 000	8 000	8 000	8 000	8 000	8 000
Number of variables per screen	600	600	600	800	800	800
functionality under WinCC Unified / screens / header						
Number of configurable images	1 200	1 200	1 200	1 200	1 200	1 200
functionality under WinCC Unified / archiving / header						
Number of archives per device	50	50	50	50	50	50
Security	50					
Number of roles	50	50	50	50	50	50
Number of users	200	200	200	200	200	200
Central user administration	Yes; as of WinCC V17					
functionality under WinCC Unified / transfer (upload/download) / header		V	V	V	V	V
• Ethernet	Yes	Yes	Yes	Yes	Yes	Yes
Process coupling						
• S7-1200	Yes	Yes	Yes	Yes	Yes	Yes
• \$7-1500	Yes	Yes	Yes	Yes	Yes	Yes
• \$7-200	No	No	No	No	No	No
• \$7-300/400	Yes	Yes	Yes	Yes	Yes	Yes
Number of S7 connections	16	16	16	16	16	16
• LOGO!	No	No	No	No	No	No
• SIMOTION	No	No	No	No	No	No
OPC UA Client	Yes	Yes	Yes	Yes	Yes	Yes
OPC UA Server	Yes	Yes	Yes	Yes	Yes	Yes
Software Controller/Open Controller	Yes	Yes	Yes	Yes	Yes	Yes

SIMATIC HMI Unified Comfort Panels Standard

Technical specifications

Article number	6AV2128-3GB36- 0AX1	6AV2128-3KB36- 0AX1	6AV2128-3MB36- 0AX1	6AV2128-3QB36- 0AX1	6AV2128-3UB36- 0AX1	6AV2128-3XB36- 0AX1
	SIMATIC HMI MTP700 Unified Comfort Neutr	SIMATIC HMI MTP1000 Unified Comfort Neut	SIMATIC HMI MTP1200 Unified Comfort Neut	SIMATIC HMI MTP1500 Unified Comfort Neut	SIMATIC HMI MTP1900 Unified Comfort Neut	SIMATIC HMI MTP2200 Unified Comfort Neut
Peripherals/Options						
Peripherals	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader	Printer, barcode reader
Printer	Yes	Yes	Yes	Yes	Yes	Yes
SIMATIC HMI MM memory card: Multi Media Card	No	No	No	No	No	No
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	Yes	Yes	Yes	Yes	Yes
USB memory	Yes	Yes	Yes	Yes	Yes	Yes
Network camera	No	No	No	No	No	No
Mechanics/material						
Enclosure material (front)						
Aluminum	Yes	Yes	Yes	Yes	Yes	Yes
Dimensions						
Width of the housing front	214 mm	280 mm	326 mm	398 mm	464 mm	529 mm
Height of housing front	158 mm	205 mm	237 mm	257 mm	294 mm	331 mm
Mounting cutout, width	197 mm	264 mm	310 mm	382 mm	448 mm	513 mm
Mounting cutout, height	141 mm	189 mm	221 mm	241 mm	278 mm	315 mm
Overall depth	64 mm	64 mm	64 mm	73 mm	73 mm	73 mm
Weights						
Weight (without packaging)	1.4 kg	2.1 kg	2.8 kg	4.3 kg	5.5 kg	6.9 kg

More information

Every Unified Comfort Panel is available in two different design variants.

- The standard design has Siemens and SIMATIC HMI branding on the front and a silver-colored aluminum frame.
- The neutral design has no branding on the front and a black aluminum frame.

Note:

The devices with the Article No. extension *-0AX1 have additional certifications for explosion-proof areas as well as for use in shipbuilding (see technical specifications). All other functions and properties are fully compatible with the devices with Article No. extension *-0AX0.

More information is available on the internet at https://www.siemens.com/unified-comfort-panels

For selected SIMATIC HMI Unified Comfort Panels, the option exists to apply the customer name or logo or to select the membrane color in accordance with the customer's corporate design. This is also possible for small quantities.

More information is available at

https://www.siemens.com/express-hmi-tool