SIEMENS

Data sheet

6AV6645-0GC01-0AX1



**** Spare part *** Does not correspond to the current version of the standard. SIMATIC Mobile Panel 277F IWLAN V2 (USA), with integrated acknowledgment button, emergency stop button, handwheel key-operated switch and two illuminated pushbuttons, supports IPCF rapid roaming configurable with WinCC flexible Standard Version 2008 or higher or TIA Portal V11 SP2 or higher incl. 1 main battery Power supply to be ordered separately: 6AV6671-5CE00-0AX1 charging station 6AV6671-5CN00-0AX2 tabletop power supply unit (EU/US/UK/JP)

Figure similar

General information	
	Mehila Panal 277F IM/I AN 1/2
Product type designation	Mobile Panel 277F IWLAN V2
Customer-specific configuration	Yes
Display	
Design of display	TFT
Screen diagonal	7.5 in
Color display	Yes
Number of colors	65 536
Resolution (pixels)	
 Horizontal image resolution 	640 pixel
Vertical image resolution	480 pixel
Backlighting	
MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Control elements	Keys and touch
Keyboard fonts	
 Membrane keyboard 	
 user-definable label membrane keys 	Yes
 Function keys 	
 Number of function keys 	18
 Number of function keys with LEDs 	18
 Keys with LED 	Yes
Numeric keyboard	Yes
 alphanumeric keyboard 	Yes
 Multi-key operation 	Yes
 Number of multi-key operations 	2
Touch operation	
 Design as touch screen 	Yes; analog, resistive
Connection type	
Type of connection for mouse/keyboard/barcode reader	USB / USB / USB
Special operator controls	
Emergency stop button (forced blocking)	Yes
Acknowledgement button	Yes
Key-operated switch	Yes
Illuminated pushbutton	Yes
Handwheel	Yes
Supply voltage	
Design of the power supply	Via charging station or table power supply
Type of supply voltage	DC

Processor	
Processor type	ARM, 520 MHz
Memory	
Type of memory	Flash / RAM
Memory available for user data	6 Mbyte
Capacity of main memory, max.	128 Mbyte
Accumulator	
Main rechargeable battery	
 Rated voltage 	7.2 V
 Capacity 	5 100 mA·h
 Number of loading cycles, min 	500
 Charging time, typ. 	4 h
 Operating time, typ. 	4 h
 Display for battery capacity 	Yes
 Energy-saving mode 	Yes
Battery replacement during operation	Yes
Type of output	
Power LED	Yes
LED for safe	Yes
LED for communication	Yes
LED for battery	Yes
Vibrations	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
• retentive	Yes
synchronizable	Yes
Interfaces	Av. Ethornoot (DIAE)
Interfaces/bus type	1x Ethernet (RJ45)
Number of industrial Ethernet interfaces Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of IVS 422 interfaces Number of USB interfaces	1
Number of wireless interfaces	1
Multimedia card/SD card slot	1 MMC/SD card slot
WLAN	1 Minor ob data dict
Wireless LAN	Yes
Supports rapid roaming	Yes
Protocols	
Supports protocol for PROFINET IO	Yes
PROFIsafe	Yes
PROFIBUS	No
Protocols (Ethernet)	
• TCP/IP	Yes
Further protocols	
MODBUS	No
other bus systems	No
communication functions / header	
Wireless communication	
supported standards	
— Radio standard WLAN 802.11	Yes
EMC	
Emission of radio interference acc. to EN 55 011	
• Limit class A, for use in industrial areas	Yes; The product is designed for use in industrial environments. When used in residential areas, the emission of radio interference according to limit class B of EN 55011 must be ensured. For further information refer to the user documentation
Standards, approvals, certificates	
Certificate of suitability	cULus, RCM (former C-TICK)
CE mark	No
cULus	Yes

DCM (formarly C TICK)	Voc
RCM (formerly C-TICK)	Yes
Suitable for safety functions	Yes
TÜV safety certification	Yes
Highest safety class achievable in safety mode	
Performance level according to ISO 13849-1	e
• SIL acc. to IEC 61508	SIL 3
Ambient conditions	
Free fall	
Fall height, max.	1.2 m
Ambient temperature during operation	
• min.	0°C
• max.	40 °C
Ambient temperature during storage/transportation	
• min.	-20 °C
• max.	60 °C
Relative humidity	
Operation, max.	80 %
Operating systems	
pre-installed operating system	Windows CE
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	
Configuration tool	WinCC flexible Standard Version 2008 SP2 and higher (to be ordered separately)
 WinCC flexible Compact 	No
 WinCC flexible Standard 	Yes
 WinCC flexible Advanced 	No
 WinCC Basic (TIA Portal) 	No
 WinCC Comfort (TIA Portal) 	Yes; V11 SP2 or higher
 WinCC Advanced (TIA Portal) 	Yes; V11 SP2 or higher
 WinCC Professional (TIA Portal) 	Yes; V11 SP2 or higher
Languages	
Online languages	
Number of online/runtime languages	16
Project languages	
Languages per project	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	Internet Explorer, Sm@rtService, Sm@rtAccess
Web browser	Yes
SIMATIC WinCC Sm@rtServer	Yes
Number of Visual Basic Scripts	Yes
Task planner	Yes
Help system	Yes
Number of characters per info text	70
Message system	
Number of alarm classes	32
Bit messages	Yes
Number of bit messages	4 000
Analog messages	Yes
— Number of analog messages	4 000
System messages HMI	Yes
-	Yes
System messages PLC Lines	
Lines Number of characters per massage	1
Number of process values per message	80
Number of process values per message Askraylandarsant resures	8
Acknowledgment groups	

Number of acknowledgement groups	99
Message indicator	Yes
First/last value	Yes
Recipe management	000
Number of recipes	300
Data records per recipe	500
Entries per data record	1 000
Recipe memory	64 KB integrated Flash, expandable
Variables	0.010
Number of variables per device	2 048
Number of variables per screen	200
Number of variables	1 000
Initial values	2 048
Type Date & Time	2 048
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Images	T00
Number of configurable images	500
Permanent window/default	Yes
Start screen configurable	Yes
Image selection by PLC	Yes
Image number in the PLC	Yes
Image objects	
Text objects	10 000 text elements
Number of I/O fields per image	200
Number of date/time fields	200
Return	Yes
Graphics object	Bit maps, icons, vector graphics
— Icons	1 000
Complex image objects	V WELL CHARTIC CT
Status/control	Yes; With SIMATIC S7
	Discussion because the efficient control of the first building building
dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
— Number of objects per project	1 000
Number of objects per project Number of curve diagrams per image	1 000 10
 — Number of objects per project — Number of curve diagrams per image Methods 	1 000
 — Number of objects per project — Number of curve diagrams per image Methods Bar graphs 	1 000 10 Trend / profile
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X/Y movement	Yes
Hide	Yes
Lists	
Number of text lists per project	500
Number of text lists per image	200
Number of entries per text list	256
Number of graphics lists per project	400
Number of graphic lists per image	200
	256
Number of entries per graphics list Archiving	200
Archiving Alumber of archives per device	20
Number of archives per device	20
Number of measuring points per project	20
Number of entries per archive	10 000
Message archive	Yes
 Process value archive 	Yes
 Archiving methods 	
 — Sequential archive 	Yes
— Short-term archive	Yes
Memory location	MultiMediaCard
Data storage format	
— CSV	Yes
Online evaluation	
— using trend curves	Yes
Filters	
• cyclic	Yes
Tolerance	Yes
Change	Yes
Security	
Number of user groups	50
Number of user rights	32
Password export/import	Yes
Logging through printer	
Recording/Printing	Alarms, report (shift report), PROFINET
Transfer (upload/download)	Alainis, report (silit report), FIXOF INCT
	USB, Ethernet, automatic transfer recognition
Transfer of configuration Wireless LAN	
Wireless LAN	Yes
Process coupling	07 000 07 000/400
Connection to controller	S7-200, S7- 300/400 see section on "System interfaces"
• \$7-1200	Yes
• \$7-1500	Yes; As of V13 SP1 Update 4, PROFIsafe communication also possible
• S7-200	Yes
— Ethernet	Yes
• S7-300/400	Yes
— PROFINET	Yes
• SIMOTION	Yes; WinCC flexible 2008 SP3 or higher
 Zones 	V
	Yes
— Number of zones per project, max.	Yes 254
— Number of zones per project, max.— Number of transponders for zones per project, max.	
— Number of zones per project, max.	254
— Number of zones per project, max.— Number of transponders for zones per project, max.	254 255
 Number of zones per project, max. Number of transponders for zones per project, max. Effective range Number of effective ranges per project, max. Number of transponders for effective ranges per 	254 255 Yes
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 Number of zones per project, max. Number of transponders for zones per project, max. Effective range Number of effective ranges per project, max. Number of transponders for effective ranges per project, max. Transponder Number of transponders per project, max. adjustable distance range 	254 255 Yes 127 127 Yes 256 Yes
 Number of zones per project, max. Number of transponders for zones per project, max. Effective range Number of effective ranges per project, max. Number of transponders for effective ranges per project, max. Transponder Number of transponders per project, max. adjustable distance range adjustable distance, min. 	254 255 Yes 127 127 Yes 256 Yes 2 m
 Number of zones per project, max. Number of transponders for zones per project, max. Effective range Number of effective ranges per project, max. Number of transponders for effective ranges per project, max. Transponder Number of transponders per project, max. adjustable distance range adjustable distance, min. adjustable distance, max. 	254 255 Yes 127 127 Yes 256 Yes 2 m
 Number of zones per project, max. Number of transponders for zones per project, max. Effective range Number of effective ranges per project, max. Number of transponders for effective ranges per project, max. Transponder Number of transponders per project, max. adjustable distance range adjustable distance, min. adjustable distance, max. Functions	254 255 Yes 127 127 Yes 256 Yes 2 m 8 m

Service tools/configuration aids		
Clean screen	Yes	
Touch calibration	Yes	
 Backup/Restore manually 	Yes	
 Simulation 	Yes	
Device switchover	Yes	
Delta transfer	Yes	
Peripherals/Options		
Peripherals	Barcode reader	
SIMATIC HMI MM memory card: Multi Media Card	Yes	
SIMATIC HMI SD memory card: Secure Digital memory card	Yes	
USB memory	Yes	
Additional software components loadable	Yes	
Mechanics/material		
Enclosure material (front)	plastic	
Dimensions		
Enclosure diameter	290 mm	
Depth of housing	103 mm	
Weights		
Weight (without packaging)	2.2 kg	

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