



Figure similar

\*\*\*\* Spare part \*\*\* Does not correspond to the current version of the standard. For use outside the EU SIMATIC Mobile Panel 277F IWLAN V2, 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 SP 2 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)

General information	
Product type designation	Mobile Panel 277 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
<b>Processor</b>	
Processor type	ARM, 520 MHz
<b>Memory</b>	
Type of memory	Flash / RAM
Memory available for user data	6 Mbyte
Capacity of main memory, max.	128 Mbyte
<b>Accumulator</b>	
Main rechargeable battery	
<ul style="list-style-type: none"> <li>• Rated voltage</li> <li>• Capacity</li> <li>• Number of loading cycles, min</li> <li>• Charging time, typ.</li> <li>• Operating time, typ.</li> <li>• Display for battery capacity</li> <li>• Energy-saving mode</li> <li>• Battery replacement during operation</li> </ul>	<ul style="list-style-type: none"> <li>7.2 V</li> <li>5 100 mA·h</li> <li>500</li> <li>4 h</li> <li>4 h</li> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>
<b>Type of output</b>	
Power LED	Yes
LED for safe	Yes
LED for communication	Yes
LED for battery	Yes
Vibrations	Yes
<b>Time of day</b>	
Clock	
<ul style="list-style-type: none"> <li>• Hardware clock (real-time)</li> <li>• retentive</li> <li>• synchronizable</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>Yes</li> <li>Yes</li> </ul>
<b>Interfaces</b>	
Interfaces/bus type	1x Ethernet (RJ45)
Number of industrial Ethernet interfaces	1
Number of RS 485 interfaces	0
Number of RS 422 interfaces	0
Number of USB interfaces	1
Number of wireless interfaces	1
Multimedia card/SD card slot	1 MMC/SD card slot
<b>WLAN</b>	
<ul style="list-style-type: none"> <li>• Wireless LAN</li> <li>• Supports rapid roaming</li> </ul>	<ul style="list-style-type: none"> <li>Yes</li> <li>Yes</li> </ul>
<b>Protocols</b>	
Supports protocol for PROFINET IO	Yes
PROFIsafe	Yes
PROFIBUS	No
Protocols (Ethernet)	
<ul style="list-style-type: none"> <li>• TCP/IP</li> </ul>	Yes
Further protocols	
<ul style="list-style-type: none"> <li>• MODBUS</li> <li>• other bus systems</li> </ul>	<ul style="list-style-type: none"> <li>No</li> <li>No</li> </ul>
<b>communication functions / header</b>	
Wireless communication	
<ul style="list-style-type: none"> <li>• supported standards <ul style="list-style-type: none"> <li>— Radio standard WLAN 802.11</li> </ul> </li> </ul>	Yes
<b>EMC</b>	
Emission of radio interference acc. to EN 55 011	
<ul style="list-style-type: none"> <li>• Limit class A, for use in industrial areas</li> </ul>	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
RCM (formerly C-TICK)	Yes
Suitable for safety functions	Yes
TÜV safety certification	Yes
Highest safety class achievable in safety mode	
<ul style="list-style-type: none"> <li>Performance level according to ISO 13849-1</li> </ul>	e
<ul style="list-style-type: none"> <li>SIL acc. to IEC 61508</li> </ul>	SIL 3
Ambient conditions	
Free fall	
<ul style="list-style-type: none"> <li>Fall height, max.</li> </ul>	1.2 m
Ambient temperature during operation	
<ul style="list-style-type: none"> <li>min.</li> </ul>	0 °C
<ul style="list-style-type: none"> <li>max.</li> </ul>	40 °C
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> <li>min.</li> </ul>	-20 °C
<ul style="list-style-type: none"> <li>max.</li> </ul>	60 °C
Relative humidity	
<ul style="list-style-type: none"> <li>Operation, max.</li> </ul>	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	
<ul style="list-style-type: none"> <li>Configuration tool</li> </ul>	WinCC flexible Standard Version 2008 SP2 and higher (to be ordered separately)
<ul style="list-style-type: none"> <li>WinCC flexible Compact</li> </ul>	No
<ul style="list-style-type: none"> <li>WinCC flexible Standard</li> </ul>	Yes
<ul style="list-style-type: none"> <li>WinCC flexible Advanced</li> </ul>	No
<ul style="list-style-type: none"> <li>WinCC Basic (TIA Portal)</li> </ul>	No
<ul style="list-style-type: none"> <li>WinCC Comfort (TIA Portal)</li> </ul>	Yes; V11 SP2 or higher
<ul style="list-style-type: none"> <li>WinCC Advanced (TIA Portal)</li> </ul>	Yes; V11 SP2 or higher
<ul style="list-style-type: none"> <li>WinCC Professional (TIA Portal)</li> </ul>	Yes; V11 SP2 or higher
Languages	
Online languages	
<ul style="list-style-type: none"> <li>Number of online/runtime languages</li> </ul>	16
Project languages	
<ul style="list-style-type: none"> <li>Languages per project</li> </ul>	32
Functionality under WinCC (TIA Portal)	
Libraries	Yes
Applications/options	Internet Explorer, Sm@rtService, Sm@rtAccess
<ul style="list-style-type: none"> <li>Web browser</li> </ul>	Yes
<ul style="list-style-type: none"> <li>SIMATIC WinCC Sm@rtServer</li> </ul>	Yes
Number of Visual Basic Scripts	Yes
Task planner	Yes
Help system	Yes
<ul style="list-style-type: none"> <li>Number of characters per info text</li> </ul>	70
Message system	
<ul style="list-style-type: none"> <li>Number of alarm classes</li> </ul>	32
<ul style="list-style-type: none"> <li>Bit messages</li> </ul>	Yes
<ul style="list-style-type: none"> <li>— Number of bit messages</li> </ul>	4 000
<ul style="list-style-type: none"> <li>Analog messages</li> </ul>	Yes
<ul style="list-style-type: none"> <li>— Number of analog messages</li> </ul>	4 000

• System messages HMI	Yes
• System messages PLC	Yes
• Lines	1
• Number of characters per message	80
• Number of process values per message	8
• Acknowledgment groups	
— Number of acknowledgement groups	99
• Message indicator	Yes
• First/last value	Yes
<b>Recipe management</b>	
• Number of recipes	300
• Data records per recipe	500
• Entries per data record	1 000
• Recipe memory	64 KB integrated Flash, expandable
<b>Variables</b>	
• 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
<b>Images</b>	
• Number of configurable images	500
• Permanent window/default	Yes
• Start screen configurable	Yes
• Image selection by PLC	Yes
• Image number in the PLC	Yes
<b>Image objects</b>	
• 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
<b>Complex image objects</b>	
• Status/control	Yes; With SIMATIC S7
• dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
— Number of objects per project	1 000
— Number of curve diagrams per image	10
• Methods	Trend / profile
• Bar graphs	
— Number of bars per chart	10
• Sliders	
— Number of slides per image	10
• Pointer instruments	
— Number of analog indicators per image	10
• Limit value lines	Yes
• Number of alphanumeric fields	300
— alphanumeric fields per image	200
• Number of numerical fields	2 048
— numerical fields per image	200
• Number of password fields	2 048
• Number of visible switches per project	200
— visible switches per image	200
— hidden switches per image	200
• Number of status switches per project	200
— Number of status switches per image	200
• Number of selector switches per project	200

— Selector switches per image	200
• Number of decade switches per project	200
— Decade switches per image	200
• Number of signal lamps per project	200
— Signal lamps per image	200
<b>Attributes for dynamic objects</b>	
• Color change	Yes
• X/Y movement	Yes
• Hide	Yes
<b>Lists</b>	
• 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
• Number of entries per graphics list	256
<b>Archiving</b>	
• 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
<b>Filters</b>	
• cyclic	Yes
• Tolerance	Yes
• Change	Yes
<b>Security</b>	
• Number of user groups	50
• Number of user rights	32
• Password export/import	Yes
<b>Logging through printer</b>	
• Recording/Printing	Alarms, report (shift report), PROFINET
<b>Transfer (upload/download)</b>	
• Transfer of configuration	USB, Ethernet, automatic transfer recognition
• Wireless LAN	Yes
<b>Process coupling</b>	
• Connection to controller	S7-200, S7- 300/400 see section on "System interfaces"
• S7-1200	Yes
• S7-1500	Yes; As of V13 SP1 Update 4, PROFINET communication also possible
• S7-200	Yes
— Ethernet	Yes
• S7-300/400	Yes
— PROFINET	Yes
• SIMOTION	Yes; WinCC flexible 2008 SP3 or higher
• Zones	Yes
— Number of zones per project, max.	254
— Number of transponders for zones per project, max.	255
• Effective range	Yes
— Number of effective ranges per project, max.	127
— Number of transponders for effective ranges per project, max.	127
• Transponder	Yes

— Number of transponders per project, max.	256
— adjustable distance range	Yes
— adjustable distance, min.	2 m
— adjustable distance, max.	8 m
<b>Functions</b>	
• TAB sequence	Yes
• Calculating functions	Yes
• Animate	Yes
<b>Service tools/configuration aids</b>	
• Clean screen	Yes
• Touch calibration	Yes
• Backup/Restore manually	Yes
• Simulation	Yes
• Device switchover	Yes
• Delta transfer	Yes
<b>Peripherals/Options</b>	
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
<b>Mechanics/material</b>	
Enclosure material (front)	plastic
<b>Dimensions</b>	
Enclosure diameter	290 mm
Depth of housing	103 mm
<b>Weights</b>	
Weight (without packaging)	2.2 kg
<b>last modified:</b>	3/30/2021 