



SIMATIC MOBILE PANEL 277F IWLAN (RFID) (USA), WITH INTEGR. ENABL.-PUSHBUTTON, EMERG.-STOP BUTTON, HANDWHEEL, KEY SWITCH AND TWO ILLUMINATED PUSHBUTTON, CONFIGURABLE W. WINCC FLEXIBLE STANDARD WITH VERSION 2007 OR TIA PORTAL V11 SP2 INCL. 1 MAIN BATTERY AND BACKUP BATTERY POWER SUPPLY TO BE ORDERED SEPARATELY: 6AV6671-5CE00-0AX1 CHARGING ST. 6AV6671-5CN00-0AX2 EXTERNAL POWER SUPPLY UNIT (EU/US/UK/JP)

Figure similar

General information	
Customer-specific configuration	Yes
Display	
Design of display	TFT
Screen diagonal	7.5 in
Number of colors	65 536
Color type	Colors
Resolution (pixels)	
• Resolution (WxH in pixel)	640 x 480
• 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 • Function keys — Number of function keys — Number of function keys with LEDs • Keys with LED • Numeric/alphabetical input • Multi-key operation — Number of multi-key operations	Yes 18 18 Yes Yes / Yes Yes 2
Touch operation	
• Design as touch screen	Yes; analog, resistive
Connection type	
• Connection for mouse/keyboard/barcode reader	USB / USB / USB
Special operator controls	
• Emergency stop button (forced blocking) • Acknowledgement button • Key-operated switch • Illuminated pushbutton • Handwheel	Yes Yes No No No
Supply voltage	
Type of supply voltage	DC
Processor	
Processor type	ARM, 520 MHz
Memory	
Type of memory	Flash / RAM
Memory available for user data	6 Mbyte
Main memory • Capacity of main memory, max.	128 Mbyte
Type of output	
Status LEDs	Yes
Power LED	Yes
Time of day	
Clock	
• Type • Hardware clock (real-time) • retentive • synchronizable	Hardware clock, battery backup, synchronizable Yes Yes Yes
Interfaces	
Interfaces/bus type	1 x Ethernet (RJ45)

Number of RS 485 interfaces	0
Number of USB interfaces	1
USB port	1 x USB
Multimedia Card slot	1 MMC/SD card slot
Industrial Ethernet	
• Industrial Ethernet interface	1 x Ethernet (RJ45)
Protocols	
PROFINET	Yes
Supports protocol for PROFINET IO	Yes
PROFIsafe	Yes
PROFIBUS	No
Protocols (Ethernet)	
• TCP/IP	Yes
Further protocols	
• MODBUS	No
• other bus systems	No
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
Degree and class of protection	
Enclosure according to EN 60529	IP65
Standards, approvals, certificates	
Certifications	CE, cULus, C-TICK
CE mark	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
TÜV safety certification	Yes
Highest safety class achievable in safety mode	
• Performance level according to EN ISO 13849-1:2008	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

Operating system	Windows CE
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Configuration

Message indicator	Yes
Alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe management	Yes

Configuration software

• 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
• Configuration tool	WinCC flexible Standard Version 2008 SP2 and higher (to be ordered separately)
• 2. Configuration kit	WinCC flexible Standard
— Version	Version 2008 SP2
— Configuration tool	WinCC flexible
— Type	Standard

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
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

• Number of messages	4 000
• Bit messages	Yes
— Number of bit messages	4 000
• Analog messages	Yes
— Number of analog messages	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
Recipe management	
• Number of recipes	300
• Data records per recipe	500
• Entries per data record	1 000
• Recipe memory	64 KB integrated Flash, expandable
Variables	
• 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	
• 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	
• 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 alphanumerical 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
Attributes for dynamic objects	
• Color change	Yes
• 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
• Number of entries per graphics list	256
Archiving	

• 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)	
• Transfer of configuration	USB, Ethernet, automatic transfer recognition
Process coupling	
• 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
Functions	
• TAB sequence	Yes
• Calculating functions	Yes
• Animate	Yes
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

Type of housing (front)	plastic
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Dimensions

Enclosure diameter	290 mm
Depth of housing	103 mm

Weights

Weight (without packaging)	2.2 kg
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Other

free hotline	Yes
Warranty period	1 y

last modified: 08/16/2016