SIEMENS

Data sheet

6AV6645-0FE01-0AX1



**** Spare part *** Does not correspond to the current version of the standard. SIMATIC Mobile Panel 277 IWLAN V2 (USA), with handwheel, key-operated switch and two illuminated pushbuttons, 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	
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	
Stop button	No
 Acknowledgement button 	No
 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 communication	Yes
LED for battery	Yes
Vibrations	Yes
Time of day	
Clock	
Hardware clock (real-time)	Yes
• retentive	Yes
synchronizable	Yes
Interfaces	
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 Number of wireless interfaces	1
Multimedia card/SD card slot	1 MMC/SD card slot
WLAN	1 WING/SD Card Slot
Wireless LAN	Yes
Supports rapid roaming	Yes
Protocols	100
Supports protocol for PROFINET IO	Yes
PROFIsafe	No
PROFIBUS	No
Protocols (Ethernet)	
• TCP/IP	Yes
Further protocols	
• MODBUS	Yes; Modicon (MODBUS TCP/IP)
other bus systems	Yes; Allen-Bradley E/IP C.Logix
communication functions / header	
Wireless communication	
supported standards	
— Radio standard WLAN 802.11	Yes
ЕМС	
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
RCM (formerly C-TICK)	Yes

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 Number of analog messages System messages HMI System messages PLC Yes 	-	
 System messages HMI System messages PLC Yes Yes 		
System messages PLC Yes		
	-	
▼ LIIIE2		
Number of characters per message 80	•	
Number of process values per message 8		8
Acknowledgment groups		
— Number of acknowledgement groups 99		99
Message indicator Yes	Message indicator	Yes
• First/last value Yes	First/last value	Yes
Recipe management	ecipe management	
• Number of recipes 300	Number of recipes	300

• Data records nor recipe	500
Data records per recipe Entries per data record	500 1 000
Entries per data record Design marrow	
Recipe memory Variables	64 KB integrated Flash, expandable
Number of variables per device	2 048
·	200
Number of variables per screenNumber of variables	1 000
Initial values	2 048
Type Date & Time	2 048
Limit values	Yes
Multiplexing	Yes
Structures	Yes
Images	165
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 the fields Number of date/time fields	200
Return	Yes
Graphics object	Bit maps, icons, vector graphics
— Icons	1 000
Complex image objects	1 000
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
Color changeX/Y movement	Yes Yes
-	
X/Y movement	Yes
X/Y movement Hide	Yes

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
Wireless LAN	Yes
Process coupling	
Connection to controller	S7-200, S7-300/400 see section on "System interfaces"
• S7-1200	Yes
	Yes
• S7-1500	
• \$7-1500 • \$7-200	Yes
• S7-200	Yes
• S7-200 — Ethernet	Yes Yes
S7-200— EthernetS7-300/400	Yes Yes
 S7-200 Ethernet S7-300/400 	Yes Yes Yes Yes
 S7-200 Ethernet S7-300/400 	Yes Yes Yes Yes Yes
 S7-200 Ethernet S7-300/400 	Yes Yes Yes Yes Yes Yes Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) 	Yes Yes Yes Yes Yes Yes Yes Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) 	Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) 	Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones 	Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. 	Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. 	Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Transponder 	Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Transponder — Number of transponders per project, max. 	Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Transponder — Number of transponders per project, max. — adjustable distance range 	Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Transponder — Number of transponders per project, max. — adjustable distance range — adjustable distance, min. 	Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Transponder — Number of transponders per project, max. — adjustable distance range — adjustable distance, min. — adjustable distance, max. 	Yes
 S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Transponder — Number of transponders per project, max. — adjustable distance range — adjustable distance, min. — adjustable distance, max. 	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes; WinCC V11 SP2 or higher Yes Yes 254 255 Yes 256 Yes 2 m 8 m
S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Transponder — Number of transponders per project, max. — adjustable distance range — adjustable distance, min. — adjustable distance, max. Functions TAB sequence	Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes; WinCC V11 SP2 or higher Yes Yes 254 255 Yes 256 Yes 2 m 8 m
S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Transponder — Number of transponders per project, max. — adjustable distance range — adjustable distance, min. — adjustable distance, max. Functions TAB sequence Calculating functions	Yes
S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Transponder — Number of transponders per project, max. — adjustable distance range — adjustable distance, min. — adjustable distance, max. Functions TAB sequence Calculating functions Animate	Yes
S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Transponder — Number of transponders per project, max. — adjustable distance range — adjustable distance, min. — adjustable distance, max. Functions TAB sequence Calculating functions Animate Service tools/configuration aids	Yes
S7-200 — Ethernet S7-300/400 — PROFINET LOGO! SIMOTION Allen Bradley (EtherNet/IP) Mitsubishi (MC TCP/IP) Modicon (Modbus TCP/IP) Zones — Number of zones per project, max. — Number of transponders for zones per project, max. Number of transponders per project, max. — adjustable distance range — adjustable distance, min. — adjustable distance, max. Functions TAB sequence Calculating functions Animate Service tools/configuration aids Clean screen	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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