

# SIEMENS

## Product data sheet

**6AV6645-0CB01-0AX0**

SIMATIC MOBILE PANEL 277 WITH INTEGRATED ENABLING BUTTON AND STOP BUTTON, CONFIGURABLE W. WINCC FLEXIBLE STANDARD VERSION 2005 SP1 AND HIGHER



General information	
Customer-specific configuration	Yes
Display	
Design of display	TFT
Screen diagonal	7.5 in
Size	7.5"
Display type	TFT, 65536 colors
Number of greyscale	65536
Color type	Colors
Resolution (pixels)	
Horizontal image resolution	640
Vertical image resolution	480
Resolution (WxH in pixel)	640 x 480
Backlighting	
MTBF backlighting (at 25 °C)	about 50,000 hours

Control elements	
Operating mode	
Operating options	Keys and Touch
Function keys, programmable	18 function keys, 18 with LEDs
Connection for mouse/keyboard/barcode reader	USB / USB / USB
Keyboard fonts	
Keys with LED	Yes
freely inscribable membrane keys	Yes
Number of function keys with LEDs	18
Multi-key operation	Yes
Number of multi-key operations	2
Number of configurable system keys	18
System keys	Yes
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Touch operation	
Touch screen	Analog, resistive
Touch screen (analog/resistive)	Yes
Special operator controls	
Illuminated pushbutton	No
Handwheel	No
Supply voltage	
Supply voltage	via connection box
Design of electrical connection, plug-in connection	1
Processor	
Processor	ARM, 520 MHz
Processor type	ARM
Memory	
Type	Flash / RAM
Usable memory for user data	6 MB usable memory for user data
Main memory	
Capacity of main memory, maximum	128 Mbyte
Time of day	

<b>Clock</b>	
Type	Hardware clock, battery backup, synchronizable
<b>Interfaces</b>	
Interfaces	1 x RS422, 1 x RS485, 1 x Ethernet (RJ45) (max. 12 Mbit/s)
Number of RS 485 interfaces	1
Transmission rate, max.	12 Mbit/s
USB port	1 x USB
Multi Media Card slot	1 MMC/SD card slot
Number of parallel interfaces	0
<b>Industrial Ethernet</b>	
Industrial Ethernet interface	1 x Ethernet (RJ45)
<b>Protocols</b>	
<b>Protocols (Ethernet)</b>	
TCP/IP	Yes
<b>Further protocols</b>	
PROFIBUS	Yes
AS-i	No
CAN	No
INTERBUS	No
MODBUS	Yes
Data highway	No
DeviceNet	No
Local Operating Network	No
SUCOnet	No
other bus systems	Yes
<b>Ambient conditions</b>	
Drop height	1.2 m
<b>Operating temperature</b>	
Operation	0 °C to +40 °C
<b>Storage/transport temperature</b>	
Transport, storage	-20 °C to +60 °C
<b>Relative humidity</b>	
max. relative humidity	80 %

<b>Degree and class of protection</b>	
IP65 enclosure	Yes
<b>Standards, approvals, certificates</b>	
Certifications	CE, cULus, C-TICK, SIBE
Safety category according to EN954-1	Safety category according to EN954-1 (acknowledgment button, STOP button if present) 3
<b>Operating systems</b>	
Operating system	Windows CE
<b>Configuration</b>	
Message indicator	Yes
With alarm logging system (incl. buffer and acknowledgment)	Yes
Process value display (output)	Yes
Process value default (input) possible	Yes
Recipe administration	Yes
<b>Configuration software</b>	
Configuration tool	WinCC flexible Standard Version 2005 SP1 or higher (to be ordered separately)
2nd configuration kit	WinCC flexible Standard
Version	Version 2005 SP 1
Configuration tool	WinCC flexible
Type	Standard
<b>Languages</b>	
<b>Online languages</b>	
Number of online/runtime languages	16
<b>Languages</b>	
Languages per project	32
<b>Functionality under WinCC flexible</b>	
Libraries	Yes
Applications/options	Internet Explorer, Sm@rtService, Sm@rtAccess
Connection point identification	Yes
Number of Visual Basic Scripts	50
Task planner	Yes
Help system	Yes

Number of characters per info text	70
<b>With alarm logging system (incl. buffer and acknowledgment)</b>	
Number of alarm classes	32
Number of messages	4000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	4000
Number of analog messages	4000
System messages HMI	Yes
System messages PLC	Yes
System messages, other (SIMATIC S7, Sinumerik, Simotion,...)	Yes
Message length (in characters)	80
Lines	1
Number of process values per message	8
Acknowledgment groups	99
Message indicator	Yes
First/last value	Yes
<b>Recipes</b>	
Recipes	300
Data records per recipe	500
Entries per data record	1000
Recipe memory	64 KB integrated Flash, expandable
<b>Variables</b>	
Number of variables per device	2048
Number of variables per screen	200
Number of variables	1000
Initial values	2048
Limit values	Yes
Multiplexing	Yes
Structs	Yes
Type Date & Time	2048
<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
Fields per image	200
Date/time fields	200
Return	J
Graphics object	Bit maps, icons, vector graphics
Icons	1000
<b>Complex image objects</b>	
Status/control	With SIMATIC S7
dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons
Number of objects per project	1000
Number per image	10
Methods	Trend / profile
Limit value lines	Yes
Number of bars per chart	10
Limit value lines	Yes
alphanumeric fields	300
alphanumeric fields per image	200
numerical fields	2048
numerical fields per image	200
Password errors	2048
Number of slides per image	10
Number of analog indicators per image	10
Number of visible switches per project	200
visible switches per image	200
hidden switches per image	200
Number of status switches per project	200
Button 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	10000
Message archive	Yes
Process value archive	Yes
Archiving methods	
Sequential archive	Yes
Short-term archive	Yes
Memory location	Multi Media Card
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), color print, hardcopy
<b>Transfer (upload/download)</b>	
Transfer of configuration	MPI/PROFIBUS DP, USB, Ethernet, automatic transfer recognition
<b>Process coupling</b>	
Connection to controller	S5, S7-200, S7- 300/400, TI 505, SINUMERIK, SIMOTION, Allen Bradley (DF1), Allen Bradley (DF485), Mitsubishi (FX), OMRON (LINK/Multilink), Modicon (Modbus), weitere Fremdtreiber siehe Kapitel "Systemkopplungen"
S7-200	Yes
PPI (point-to-point)	Yes
PPI network	Yes
MPI	Yes
PROFIBUS DP	Yes
Ethernet	Yes
S7-300/400	Yes
MPI	Yes
PROFIBUS DP	Yes
PROFINET	Yes
S5	Yes
serial	Yes
PROFIBUS DP	Yes
TI 505	Yes
Allen Bradley (DF1)	Yes
Allen Bradley (DF485)	Yes
Mitsubishi (FX)	Yes
Mitsubishi (MP4)	Yes
OMRON (LINK/Multilink)	Yes



Modicon (Modbus)	Yes
GE-Fanuc (SNP)	Yes
<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	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	Yes
<b>I/O / Options</b>	
I/O devices	Printer, barcode reader
Multi Media Card	Yes
SD card	Yes
USB memory	Yes
Additional software components loadable	Yes
<b>Mechanics/material</b>	
Type of housing (front)	Plastic
<b>Dimensions</b>	
Housing diameter/depth (mm)	Dia 290 mm / D 103 mm
<b>Weight</b>	
Weight	1.7 kg
<b>other</b>	
free hotline	Yes
Warranty period	1 a
Status	Feb 6, 2012