

SIEMENS

Product data sheet

6AV6643-0CB01-1AX1

SIMATIC MP 277 8" TOUCH TFT MULTI PANEL W.
RETENTIVE MEMORY 7.5" TFT DISPLAY 6 MB
CONFIGURING MEMORY,
CONFIGURABLE WITH WINCC FLEXIBLE 2005
STANDARD SP1



General system features

Customer-specific configuration	Yes
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
Additional software components loadable	Yes

Display

Design of display	TFT
Size	7.5"
Screen diagonal	7.5 in
Display type	TFT, 65536 Farben
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	
Control elements	Touch screen
Operating mode	
Operating options	Touch
Connection for mouse/keyboard/barcode reader	USB / USB / USB
external mouse	USB
Keyboard	
Keys with LED	No
external keyboard	USB
Numeric/alphabetical input	Yes / Yes
hexadecimal keyboard	Yes
Touch operation	
Touch screen	analog, resistive
Design as touch screen	Yes
Touch screen (analog/resistive)	Yes
Barcode reader	
Connection for barcode reader	USB
Expansions for operator control of the process	
DP direct keys (screen buttons and keys as S7 input I/O)	Number of bytes for configurable buttons: 5
Supply voltage	
Input voltage	
Type of voltage	DC
permissible range	+20.4 V to +28.8 V DC
Supply voltage	24 V DC
Processor	
Processor	ARM
Processor type	ARM
Memory	

Type	Flash / RAM
Usable memory for user data	6 MB usable memory for user data
Capacity of main memory, maximum	128 Mbyte
Time of day	
Clock	
Type	Hardware clock, battery backup, synchronizable
Interfaces	
Interfaces	1 x RS422, 1 x RS485, 1 x Ethernet (RJ45)
USB port	2 x USB
Multi Media Card slot	1 x Multi Media Card slot
Number of RS 485 interfaces	1
Industrial Ethernet	
Industrial Ethernet interface	1 x Ethernet (RJ45)
Ambient conditions	
Operating temperature	
Operation	0 °C to +50 °C
Storage/transport temperature	
Transport, storage	-20 °C to +60 °C
Relative humidity	
max. relative humidity	90 %
Mounting position	
maximum permissible angle of inclination without external ventilation	+/- 35 °
Degree and class of protection	
Front	IP65, NEMA 4x, (when installed)
IP (at the front)	IP65
NEMA	NEMA 4x
Rear	IP20
IP (rear)	IP20
Standards, approvals, certificates	
Certifications	CE, FM Class I Div. 2, UL, cULus, EX-Zone 22, NEMA 4x (Enclosure Type 4X, Type 12)
Operating systems	
Operating system	Windows CE

Configuration	
Configuration software	
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
Functionality under WinCC flexible	
Applications/options	ProAgent, Internet Explorer, Soft-PLC, Sm@rtService, Sm@rtAccess
Number of Visual Basic Scripts	50
Task planner	Yes
Help system	Yes
Number of info. texts	70
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Status/control	with SIMATIC S7
With alarm logging system (incl. buffer and acknowledgment)	
Number of messages	4000
Bit messages	Yes
Analog messages	Yes
Number of bit messages	4000
Number of analog messages	200
Number of alarm classes	32
System messages HMI	Yes
System messages PLC	Yes
System messages, other (Sinumerik, Simotion,..)	Yes
Message length (in characters)	80
Lines	1
Number of process values per message	8
Acknowledgment groups	Yes
Message indicator	Yes
First/last value	Yes

Message buffer	Ring buffer (n x 512 entries), retentive, maintenance-free
Recipes	
Recipes	300
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Data records per recipe	500
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Entries per data record	1000
Memory requirement for first unit	10 byte
Memory requirement for each additional unit	10 byte
Recipe memory	64 KB integrated Flash, expandable
Number of process images	
Process images	500
Variables	2048
Type Date & Time	2048
Number of internal variable	1000
Limit values	Yes
Multiplexing	Yes
Structs	Yes
Image elements	
Text objects	10,000 text elements
Fields per image	200
Variables per image	200
Permanent window/default	Yes
Image selection via PLC	Yes
Start screen configurable	Yes
Image number in the PLC	Yes
Return	Y
Graphics object	Bit maps, icons, vector graphics
Icons	1000
dynamic objects	Diagrams, bar graphs, sliders, analog display, invisible buttons

Number of objects per project	1000
Number per image	10
Write direction	horizontal
Online operation of trends	Compress / shift
trigger	Bit / Time
Methods	Trend / profile
Limit value lines	Yes
Number of bars per chart	10
Direction	vertical / horizontal
Limit value lines	Yes
alphanumeric fields	300
alphanumeric fields per image	200
numerical fields	2048
numerical fields per image	200
Date and time field	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
Attributes for dynamic objects	
Color change	Yes
X/Y movement	Yes
Hide	Yes

Lists	
Text lists	500
Number of text lists per image	200
Number of entries in text lists	256
Graphics list	400
Number of graphic lists per image	200
Number of entries in graphics lists	256
Libraries	Yes
Archiving	
Number of archives per project	20
Number of measuring points per project	20
Number of entries per archive	10000
Sequential archive	Yes
Short-term archive	Yes
Message archive	Yes
Process value archive	Yes
Memory location	SD and Multi Media Card
Ethernet	Yes
CSV	Yes
Using trend curves	Yes
Filters	
cyclic	Yes
Tolerance	Yes
Change	Yes
Security	
Number of user groups	50
Passwords exportable	Yes
Number of user rights	32
Data carrier support	
Multimedia Card	Yes
SD card	Yes
USB Memory Drive	Yes
Recording	

Recording/Printing	Alarms, report (shift report), color print, hardcopy
Fonts	
Keyboard fonts	US American (English)
Languages	
Online languages	16
Languages per project	32
Configuration languages	D, GB, F, I, E, CHN "traditional", CHN "simplified", DK, FIN, GR, J, KP / ROK, NL, N, PL, P, RUS, S, CZ / SK, TR, H
Character sets	Tahoma, Arial, Courier New, WinCC flexible Standard, symbol languages, all freely scalable
Transfer (upload/download)	
Transfer of configuration	MPI/PROFIBUS DP, USB, Ethernet, automatic transfer recognition
Process coupling	
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) see section on "System interfaces"
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
PROFIBUS DP	Yes
TI 505	Yes
Point-to-point	Yes
Network	Yes
Allen Bradley (DF1)	Yes

Point-to-point	Yes
Network	Yes
Allen Bradley (DF485)	Yes
Point-to-point	Yes
Mitsubishi (FX)	Yes
Mitsubishi (MP4)	Yes
Telemecanique (Uni-Telway)	Yes
OMRON (LINK/Multilink)	Yes
Modicon (Modbus)	Yes
GE-Fanuc (SNP)	Yes
Functions	
TAB sequence	Yes
Calculating functions	Yes
Animate	Yes
Service tools/configuration aids	
Clean screen	Yes
Touch calibration	Yes
Backup/restore	Yes
Simulation	Yes
Device switchover	Yes
Delta transfer	Yes
Expandability/openness	
Open Platform Program	Yes
I/O / Options	
I/O devices	Printer, barcode reader
Mounting	
Mounting technology	Clamp terminals
Mechanics/material	
Type of housing (front)	Plastic
Dimensions and weight	
Dimensions	
Front of enclosure (W x H)	240 mm x 180 mm
Mounting cutout/device depth (W x H / D)	226 mm x 166 mm / 60 mm device depth

Weight	
Weight	1.61 kg
other	
free hotline	Yes
Warranty period	1 a
Status	May 23, 2011