SIEMENS

Data sheet 6AV7881-3AA00-7EA0

No longer available SIMATIC IPC277D (Nanopanel PC) 12" Touch TFT; 2x 10/100/1000 Mbps Ethernet RJ45; 3x USB V2.0 (high current); 1x serial (COM 1); CompactFlash slot; 24 V DC power supply ATOM E640 (1.0 GHz), 1 GB RAM standard front 50 GB SSD SATA (high endurance) Windows 7 SP1, MUI (SSD) without SIMATIC software

Display	
Design of display	12" TFT touch
Screen diagonal	12 in
Resolution (pixels)	
● Horizontal image resolution	1 280 pixel
● Vertical image resolution	800 pixel
Backlighting	
● MTBF backlighting (at 25 °C)	80 000 h
Control elements	
Input device	
● Mouse, at front	No
Keyboard fonts	
● Function keys	No
● alphanumeric keyboard	No
Touch operation	
● Design as touch screen	Yes
Installation type/mounting	
Design	Panel PC, built-in unit
central design	Yes
distributed design	No
Mounting in portrait format possible	Yes
maximum permissible installation angle +/-	45°
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
Power loss	
In full configuration	31.2 W
Processor	
Processor type	Intel Atom E6x0
Drives	
Optical drives	possible as external drive via USB
Hard disk	CF or SSD
SSD	Yes; ≥ 240 GB optional
Memory	
Main memory	1 GB to 2 GB
Capacity of main memory, max.	2 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	128 kbyte
Hardware configuration	
Slots	
● Number of compact flash slots	1; CompactFlash
Interfaces	
USB port	Yes
Connection for keyboard/mouse	USB / USB
Industrial Ethernet	
● Industrial Ethernet interface	2x Fast Ethernet
— 100 Mbps	Yes

Subject to change without notice
© Copyright Siemens

— 1000 Mbps	Yes
Integrated Functions	
Monitoring functions	
● Temperature monitoring	Yes
● Watchdog	Yes
● Fan	No
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
cULus	Yes
Marine approval	
● Germanischer Lloyd (GL)	Yes; 7", 9", 12"
● American Bureau of Shipping (ABS)	Yes; 7", 9", 12"
● Bureau Veritas (BV)	Yes; 7", 9", 12"
● Det Norske Veritas (DNV)	Yes; 7", 9", 12"
● Lloyds Register of Shipping (LRS)	Yes; 7", 9", 12"
Ambient conditions	
Ambient temperature during operation	
● min.	0 °C
● max.	50 °C; 19": max. 45 °C
Operating systems	
pre-installed operating system	
● Windows XP Professional	No
● Windows 7	No
Software	
SIMATIC Software	Optionally with pre-installed software bundle SIMATIC WinCC RT Advanced / WinAC RTX
Accessories	
Accessory components	Touch protective foil
Dimensions	
Width of the housing front	330 mm
Height of housing front	241 mm
Mounting cutout, width	310 mm
Mounting cutout, height	221 mm
Overall depth	66 mm
Weights	
Weight, approx.	2.75 kg

Classifications

	Version	Classification
eClass	14	19-20-01-03
eClass	12	19-20-01-03
eClass	9.1	19-20-01-03
eClass	9	19-20-01-03
eClass	8	27-24-23-01
eClass	7.1	27-24-23-01
eClass	6	27-24-23-01
ETIM	9	EC001414
ETIM	8	EC001414
ETIM	7	EC001414

Approvals / Certificates

General Product Approval				Marine / Shipping
CE EG-Konf.	UKCA	Manufacturer Declaration	KC	RCM ABS

Subject to change without notice
© Copyright Siemens

Marine / Shipping			Dangerous goods	Environment
DNV	CCS (China Classification Society)	KR	Dangerous goods information	Environmental Confirmations

last modified: 1/31/2023

Subject to change without notice
© Copyright Siemens