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Data sheet 6AV7881-2AA00-7CA0

No longer available SIMATIC IPC277D (Nanopanel PC) 9" 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) XP Prof. SP3, MUI (SSD) without SIMATIC software

General information	
Product type designation	IPC277D
Display	
Design of display	9" TFT touch
Screen diagonal	9 in
Resolution (pixels)	
● Horizontal image resolution	800 pixel
● Vertical image resolution	480 pixel
Backlighting	
● MTBF backlighting (at 25 °C)	80 000 h
Control elements	
Keyboard	
● 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
Supply voltage	
Type of supply voltage	24 V DC
Mains buffering	
● Mains/voltage failure stored energy time	20 ms
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
Storage	
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	
serial interface	COM1 (RS 232)
Industrial Ethernet	
● Industrial Ethernet interface	
— 100 Mbps	Yes
— 1000 Mbps	Yes
Interrupts/diagnostics/status information	
LED status display	No

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Integrated Functions	
Monitoring functions	
● Temperature monitoring	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
Dimensions	
Width of the housing front	274 mm
Height of housing front	190 mm
Mounting cutout, width	251 mm
Mounting cutout, height	166 mm
mounting depth	71 mm
Weights	
Weight, approx.	1.9 kg

Classifications

	Version	Classification
eClass	16	19-20-01-03
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	10	EC001414
ETIM	9	EC001414
ETIM	8	EC001414
ETIM	7	EC001414

Approvals / Certificates

General Product Approval

Manufacturer Declaration

Manufacturer Declaration

General Product Approval	Maritime application

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CCS (China Classification Society) KR (Korean Register of Shipping)

Dangerous goods		Environment	
Dangerous goods information	Test Summary Report UN 38.3	Environmental Confirmations	Environmental Confirmations

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