SIEMENS

6AV7240-1AK04-0DK0

SIMATIC IPC 477D, 12" TOUCH DISPLAY; 4 USB (BACK), ETHERNET (10/100/1000);

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Display	
Design of display	12" TFT touch
Screen diagonal	12 in
Resolution (pixels)	
Horizontal image resolution	1 280 Pixel
 Vertical image resolution 	800 Pixel
Control elements	
Input device	
Mouse, at front	No
Keyboard fonts	
Function keys	No
 alphanumeric keyboard 	No
Touch operation	
Design as touch screen	Yes; analog, resistive
Installation type/mounting	
Mounting	For horizontal and vertical 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	100/240 V AC (autorange) 50/60 Hz; optional 24 V DC
Line frequency	
Rated value 50 Hz	Yes
Rated value 60 Hz	Yes
Mains buffering	
Mains/voltage failure stored energy time	10 ms
Power loss	
In full configuration	24 V DC: max. 59 W
Processor	
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Processor type

(2.80) GHz, 4 MB Cache, iAMT)

Celeron 827E (1C/1T, 1.40 GHz, 1.5 MB Cache); Core i3-3217UE

(2C/4T, 1.60 GHz, 3 MB Cache); Core i7-3517UE (2C/4T, 1.70

Cranbias controller	Intel UD graphics controller
Graphics controller	Intel HD graphics controller
Drives	
Diskette drive	No
Hard disk	2.5" SATA hard disk, at least 320 GB
SSD	Yes; 1x 80 GB, 1x 240 GB SSD, 1x 480 GB SSD
Memory	
Type of memory	DDR3-SDRAM
Capacity of main memory, max.	8 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags),	512 kbyte; 128 KB can be stored in the buffer time; optional
max.	
Hardware configuration	
Slots	
• free slots	1x PCIe (slot with card retainer), 1x slot for CFAST card
 Number of PCI slots 	1; Optional
 Number of compact flash slots 	2
Interfaces	
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbit/s, no plug-in card
	necessary, CP 5622-compatible
Number of PROFINET interfaces	3; 3 ports (incl. switch)
USB port	4x USB 3.0 high speed/high current
Connection for keyboard/mouse	USB / USB
serial interface	COM1: 1x RS 232, COM2 (optional): 1x RS 232
Video interfaces	
Graphics interface	DVI VGA / DVI integrated
Industrial Ethernet	
Industrial Ethernet interface	Onboard, 2 x 10/100 Mbit/s, RJ45, no plug-in card necessary
Integrated Functions	
Monitoring functions	
Temperature monitoring	Yes
Watchdog	Yes
Status LEDs	Yes
Monitoring function via network	Optional
EMC	
Interference immunity against discharge of static electric	city
Interference immunity against discharge of	± 6 KV contact discharge at the front in accordance with IEC
static electricity	61000-4-2; ±4 kV, housing contact discharge at the back in
•	accordance with IEC 61000-4-2; ± 8 kV air discharge in
	accordance with IEC 61000-4-2

Interference immunity against high-frequency electromagnetic fields

Interference immunity against high frequency radiation	10 V/m for 80 - 1000 MHz and 1.4 - 2 GHz, 80% AM acc. to IEC 61000-4-3; 3 V/m for 2 - 2.7 GHz, 80% AM acc. to IEC 61000-4-3; 10 V for 10 kHz - 80 MHz, 80% AM acc. to IEC 61000-4-6
Interference immunity to cable-borne interference	
 Interference immunity on supply cables Interference immunity on signal cables >30m 	±2 kV (to IEC 1000-4-4; 1995; burst); ±1 kV (to IEC 1000-4-5; 1995; surge symm); ±2 kV (to IEC 1000-4-5; 1995; surge asymm) ±2 kV acc. to IEC 61000-4-4, burst; length > 30 m; ±2 kV acc. to
	IEC 61000-4-5, surge; length > 30 m
 Interference immunity on signal cables < 30m 	\pm 1 kV acc. to IEC 61000-4-4; burst; length < 3 m; \pm 2 kV acc. to IEC 61000-4-4; burst; length > 3 m
Interference immunity against voltage surge	
asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
• symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
Interference immunity to magnetic fields	
 Interference immunity to magnetic fields at 50 Hz 	100 A/m; to IEC 61000-4-8
Emission of conducted and non-conducted interference	
 Interference emission via line/AC current cables 	EN 61000-6-3, EN 61000-6-4, CISPR 22 Class B, FCC Class A
Degree and class of protection	
IP (at the front)	IP65
IP (rear)	IP20
Standards, approvals, certificates	
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes
RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	CE, EN 61000-6-4; CISPR 22:2004 Class A; FCC Class A
Marine approval	
 Germanischer Lloyd (GL) 	Yes
American Bureau of Shipping (ABS)	Yes
Bureau Veritas (BV)	Yes
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	Yes
 Nippon Kaiji Kyokai (Class NK) 	Yes
Ambient conditions	
Ambient temperature during operation	
Ambient temperature during operation	0 °C to +50 °C with full configuration
• min.	0 °C

• may	50 °C
 max. Ambient temperature during storage/transportation 	30 0
• min.	-20 °C
	60 °C
• max.	00 C
Relative humidity	Tootad according to IEC 60069 2.79 IEC 60069 2.20; EV to 900/
Relative humidity	Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)
Shock testing	
Shock load during operation	IEC 60068-2-27; 150 m/s², 11 ms (without hard disk); 50 m/s², 30 ms (with hard disk)
Operating systems	
Operating system	Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 7 P, 32-bit, MUI
pre-installed operating system	Yes
without operating system	Yes
pre-installed operating system	
Windows 7	Yes; Ultimate 32 bits or 64 bits
Software	
SIMATIC Software	Optionally with pre-installed software bundle SIMATIC WinCC RT Advanced / WinAC RTX
Dimensions	
Operator control unit (W x H) in mm	
 Operator panel width 	330 mm
 Operator panel height 	241 mm
Install. dimensions, centralized design (W x H x D without optical drive) in mm	
Width	310 mm
WidthHeight	310 mm 221 mm
• Height	221 mm
 Height Depth Mounting cutout/device depth (W x H x T) Weights	221 mm 76 mm
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 Height Depth Mounting cutout/device depth (W x H x T) Weights	221 mm 76 mm 310 mm x 221 mm / 83 mm device depth
 Height Depth Mounting cutout/device depth (W x H x T) Weights Panel PC in central design, approx. 	221 mm 76 mm 310 mm x 221 mm / 83 mm device depth