

SIMATIC IPC 477D, 12" Touch Display; 4 USB (back), Ethernet (10/100/1000) Celeron U827E; 2x Gbit Ethernet (IE/PN); 4 GB with NVRAM; 1x RS-232; without PCIE; WIN Embedded Standard 7, 32-bit Replaceable without drive; CFast 16 GB, WinAC RTX 2010 SP2; 24 V DC industrial power supply

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	

Processor type	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 (2.80) GHz, 4 MB Cache, iAMT)
Graphic	
Graphics controller	Intel HD graphics controller
Drives	
Optical drives	Optional: DVD±R±RW combi drive; on rear, can be operated from side
Hard disk	2.5" SATA hard disk, at least 320 GB
SSD	Yes; 1x 240 GB SSD, 1x 480 GB SSD
Memory	
Type of memory	DDR3-SDRAM
Main memory	2 / 4 / 8 GB; ECC optional
Capacity of main memory, max.	8 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	512 kbyte; 128 KB can be stored in the buffer time; optional
Hardware configuration	
Slots	
• free slots • Number of PCI slots • Number of compact flash slots	1x PCIe (slot with card retainer), 1x slot for CFAST card 1; Optional 2; CFast
Interfaces	
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbps, compatible with CP 5611
Number of PROFINET interfaces	3; 3 ports (IRT, with switch, optional)
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, 2x 10/100 Mbit, RJ45, no plug-in card necessary
Interrupts/diagnostics/status information	
Bus diagnostics	Yes
Integrated Functions	
Monitoring functions	
• Temperature monitoring • Watchdog • Status LEDs	Yes Yes Yes

- Fan
- Monitoring function via network

No
Optional

EMC

Interference immunity against discharge of static electricity

- Interference immunity against discharge of static electricity
- ± 6 kV contact discharge at the front in accordance with IEC 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 to cable-borne interference

- Interference immunity on supply cables
 - Interference immunity on signal cables >30m
 - 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
±1 kV acc. to IEC 61000-4-4; burst; length < 3 m; ±2 kV acc. to IEC 61000-4-4; burst; length > 3 m

Interference immunity against voltage surge

- asymmetric interference
 - symmetric interference
- ±2 kV acc. to IEC 61000-4-5, surge asymmetric
±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; CE marking / EC Declaration of Conformity
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

Use in hazardous areas

- ATEX Zone 2
 - ATEX Zone 22
 - IECEx Zone 2
 - cULus Class I Zone 2, Division 2
- Yes; Optional
Yes; Optional
Yes; Optional
Yes

Marine approval

- Germanischer Lloyd (GL)
- Yes

- American Bureau of Shipping (ABS)
- Bureau Veritas (BV)
- Det Norske Veritas (DNV)
- Korean Register of Shipping (KRS)
- Lloyds Register of Shipping (LRS)
- Nippon Kaiji Kyokai (Class NK)

Yes
Yes
Yes
Yes
Yes
Yes

Ambient conditions

Ambient temperature during operation

- Ambient temperature during operation 0 °C to +45 °C with full configuration

Ambient temperature during storage/transportation

- min. -20 °C
- max. 60 °C

Relative humidity

- Relative humidity Tested according to IEC 60068-2-78, IEC 60068-2-30: 5% to 80% at 25 °C (no condensation)

Vibrations

- Vibration resistance during operation acc. to IEC 60068-2-6 IEC 60068-2-6; 5 Hz to 9 Hz: 3.5 mm; 9 Hz to 500 Hz: 9.8 m/s² (with SSD or CFast); 10 Hz to 58 Hz: 0.0375 mm; 58 Hz to 200 Hz: 4.9 m/s² (hard disk)

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; Optional

pre-installed operating system

- Windows 7 Yes; Ultimate 32 bit or 64 bit

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

Mounting dimensions in centralized configuration (W x H x D) in mm

- Width 310 mm
- Height 221 mm
- Depth 76 mm

Mounting cutout/device depth (W x H x T) 310 mm x 221 mm / 83 mm device depth

Weights

Panel PC in central design, approx.

3 200 g

last modified:

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