SIEMENS

Data sheet

6AV7892-0BB00-1AB0

SIMATIC HMI IPC677C (Panel PC), 2x10/100/1000 Mbit/s Ethernet; 4x USB V2.0, 1x serial (COM1); Watchdog, temperature and Fan monitoring; RAID controller onboard; 15" Touch; 1024x 768

General information	
Product type designation	IPC677C
Dianlay	
Display Design of display	15" TFT touch
Screen diagonal	15 in
Resolution (pixels)	10 111
Horizontal image resolution	800 Pixel
•	600 Pixel
Vertical image resolution	000 Fixel
General features	Lininterwestible necessary weeks (LICD), CIMATIC NIET
Expansion components	Uninterruptible power supply (USP), SIMATIC NET communication modules
Backlighting	Samuel and the same and the sam
MTBF backlighting (at 25 °C)	50 000 h
• With backing tung (at 25 °C)	00 000 11
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	
Mounting	For horizontal and vertical mounting
Design	Panel PC, built-in unit
central design	Yes
distributed design	No
maximum permissible installation angle +/-	20°
Supply voltage	
Type of supply voltage	100/240 V AC (autorange); 24 V DC
Line frequency	
Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
Mains buffering	
Mains/voltage failure stored energy time	20 ms

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In full configuration	140W max. (15W included per slot)
Processor	
Processor type	Core i7-610E (2C/4T, 2.53 GHz, TB, HT, VT, AMT, 4MB cache); Core i3-330E (2C/4T, 2.13 GHz, HT, VT, 3MB cache); Celeron P4505 (2C/2T, 1.86 GHz, VT, 2MB cache);
Chipset	Intel QM57 Express Chipset
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	3.5" SATA ≥ 250 GB, optional ≥ 500 GB; RAID1 2x 2.5" SATA ≥ 320 GB; all internal drives are vibration-damped
SSD	Yes; ≥ 160 GB optional
Memory	
Type of memory	DDR3 1066 DIMM
Main memory	1 GB to 8 GB DDR3 1066 DIMM, ECC optional
Capacity of main memory, max.	8 Gbyte
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags),	2 Mbyte; 128 KB can be stored in the buffer time; optional
max.	
Hardware configuration	
Slots	
• free slots	2x PCI or 1x PCI & 1x PCIe (x16) (slots with card retainer), 1x slo for CompactFlash Card
 Number of PCI slots 	2
 Number of PCI slots 	1
Number of compact flash slots	1
nterfaces	
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbps, no plug-in card necessary, CP 5611-A2-compatible
Number of PROFINET interfaces	3; Optional
USB port	1x at front, 4x at rear, USB 2.0 (500 mA)
Connection for keyboard/mouse	USB / USB
serial interface	COM1: 1 x V.24 (RS232)
parallel interface	optional LPT1
Video interfaces	
Graphics interface	DVI-I usable for additional display unit (VGA via adapter); color depth 32 bits, 8 to 128 MB Shared Memory
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Industrial Ethernet interface
 — 100 Mbps
 — 1000 Mbps
 Yes
 Yes

Integrated Functions

Monitoring functions

Temperature monitoring
 Watchdog
 Status LEDs
 Fan
 Monitoring function via network

Yes
Optional

EMC

Interference immunity against discharge of static electricity

• Interference immunity against discharge of static electricity

±6 kV contact discharge acc. to IEC 61000-4-2; ±8 kV air discharge acc. to 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 ±2 kV acc. to IEC 61000-4-4, burst; ±1 kV acc. to IEC 61000-4-5, surge symmetric; ±2 kV acc. to IEC 61000-4-5, surge asymmetric

• Interference immunity on signal cables >30m ±2 kV acc. to IEC 61000-4-5, surge, length > 30 m

• Interference immunity on signal cables < 30m ±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
 ±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 (on front) to EN60529 and NEMA4
IP (rear)	IP20

Standards, approvals, certificates

Approval	CE, cULus (508)
CE mark	Yes
UL approval	Yes
• UL 508	Yes
cULus	Yes

RCM (formerly C-TICK)	Yes
KC approval	Yes
FCC	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
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 	12", 15": +5 °C to +50 °C; 19": +5 °C to +45 °C
• min.	5 °C
• max.	50 °C
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 	Tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s² (1 g)
Shock testing	
Shock load during operation	Tested to DIN IEC 60068-2-29: 50 m/s² (5 g), 30 ms, 100 shocks
Operating systems	
Operating system	Windows XP Prof. SP3, MUI; Windows 7 Ultimate 32-bit / 64-bit, MUI; Windows Embedded Standard 2009 English on 8 GB CompactFlash; without operating system
pre-installed operating system	Yes
without operating system	Yes
pre-installed operating system	
Windows XP Professional	Yes
• Windows 7	Yes; Ultimate 32 bits or 64 bits
Software	
SIMATIC Software	Optional in a package with SIMATIC WinCC, WinCC flexible, or WinAC RTX
Accessories	
Accessory components	Touch protective foil (not for Inox front)

Dimensions	
Width of the housing front	482.6 mm
Height of housing front	310.3 mm
Overall depth	
 additional mounting depth (optical drive) 	21 mm
Mounting cutout/device depth (W x H x T)	452 mm x 290 mm / 147 mm (incl. optical drive)

Weights	
Panel PC in central design, approx.	14 kg

04/06/2018 last modified: