

SIMATIC HMI IPC677C 2X10/100/1000 MBIT/S ETHERNET; 4XUSB V2.0, 1 X SERIAL (COM1); WATCHDOG, TEMPERATURE AND FAN CONTROL; RAID-CONTROLLER ON BOARD; 15" KEY; 1024 X 768;

PC configuration	
Graphics card	Intel HD graphics controller
Chipset	Intel QM57 Express Chipset
Installation type/mounting	
Design	Panel PC, built-in unit
maximum permissible installation angle +/-	20°
Supply voltage	
Type of supply voltage	100 V AC / 240 V AC (autorange) 50/60 Hz; optional 24 V DC
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);
Drives	
Optical drives	Optional: DVD±R±RW combi drive; on rear, can be operated from side
Hard disk	3.5" SATA hard disk ≥ 250 GB, optional ≥ 500 GB, optional: RAID1 2x 2.5" SATA ≥ 320 GB, optional: Solid state drive (SSD) ≥ 160 GB; all hard disk drives within the enclosure are vibration-damped
SSD	Yes; Optional
Memory	
Main memory	1 GB to 8 GB DDR3 1066 DIMM, ECC optional
• Capacity of main memory, max.	8 Gbyte
Hardware configuration	
Slots	
• Free slots	2x PCI or 1x PCI & 1x PCIe (x16) (slots with card retainer), 1x slot for CompactFlash Card
• Number of PCI slots	2
• Number of compact flash slots	1
Interfaces	
PROFIBUS/MPI	Optionally onboard, isolated, max. 12 Mbps, no plug-in card necessary, CP 5611-A2-compatible
serial interface	COM1: 1 x V.24 (RS232)

parallel interface	optional LPT1
USB port	1x at front, 4x at rear, USB 2.0 (500 mA)
Connection for keyboard/mouse	USB / USB
Video interfaces	
Graphics interface	DVI-I usable for additional display unit (VGA via adapter); color depth 32 bits, 8 to 128 MB Shared Memory
Industrial Ethernet	
Industrial Ethernet interface	Onboard, 2 x 10/100/1000 Mbit/s, RJ45, no plug-in card necessary
— 100 Mbps	Yes
— 1000 Mbps	Yes
Monitoring functions	
Temperature	Yes
Watchdog	Yes
Status LEDs	Yes
Fan	Yes
Monitoring function via the network	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 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
Surge immunity	
Asymmetric interference	±2 kV acc. to IEC 61000-4-5, surge asymmetric
Symmetric interference	±1 kV acc. to IEC 61000-4-5, surge symmetric
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
Immunity to magnetic field interference	
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	
Front	IP65 (on front) to EN60529 and NEMA4
IP (at the front)	IP65

IP degree of protection	IP20
IP (rear)	IP20
Standards, approvals, certificates	
Approval	CE, cULus (508)
CE mark	Yes
UL approval	Yes
cULus	Yes
KC approval	Yes
EMC	CE, EN 61000-6-4:2007, EN 61000-6-2:2005
EN 61000-6-2	Yes
Marine approval	
- Germanischer Lloyd (GL) - American Bureau of Shipping (ABS) - Bureau Veritas (BV) - Det Norske Veritas (DNV) - Lloyds Register of Shipping (LRS) - Nippon Kaiji Kyokai (Class NK)	Yes Yes Yes Yes Yes Yes
Ambient conditions	
Ambient temperature in operation	
- Ambient temperature in operation - Min. - max.	12", 15": +5 °C to +50 °C; 19": +5 °C to +45 °C 5 °C 50 °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 load in operation	Tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s ² (1 g)
Shock testing	
Shock loading in operation	Tested to DIN IEC 60068-2-29: 50 m/s ² (5g), 30 ms, 100 shocks
Operating systems	
Operating system	Windows XP Prof. SP3, MUI; Windows 7 Ultimate 32/64Bit, MUI; Windows Embedded Standard 2009 English on 8 GB CompactFlash; without operating system;
Pre-installed operating system	Yes
- Windows XP Prof. - Windows 7	Yes Yes; Ultimate 32 bits or 64 bits
without operating system	Yes
Software	
SIMATIC Software	Optional in a package with SIMATIC WinCC, WinCC flexible, or WinAC RTX

last modified:

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