



SIMATIC PANEL PC 677B 2X10/100/1000 MBIT/S
ETHERNET;
4XUSB V2.0, 1 X SERIAL (COM1);
12" KEY;
800X600;
WITH FRONT SIDE USB INTERFACE;
AC110/230V POWER SUPP. W. MAMUR POWER CABLE
EUROPE;
CORE 2 DUO T5500, 1.66 GHZ;
2MB SLC, 2 X PCI;
1GB DDR2 RAM;
160 GB SATA HDD 3,5", DVD+-R+-RW;
PROFIBUS/MPI;
WINDOWS XP PROF MUI (EN,DE,FR,IT,SP,JP,CHN,KOR)

Operator control and monitoring	
Accessory components	Slide-in keyboard labels, direct key module, remote kit
Display	
Size	12.1" TFT
Resolution (pixels)	
Resolution (WxH in pixel)	800 x 600
General features	
Front panel	12" TFT Key
Expansion components	Uninterruptible power supply (USP), SIMATIC NET communication modules
Backlighting	
MTBF backlighting (at 25 °C)	50,000 h in 24 h permanent operation, temperature-dependent
Control elements	
Function keys	36 with LEDs
Touch operation	
Design as touch screen	No
Touch screen (analog/resistive)	No
Installation type/mounting	
central design	Yes

distributed design	Yes
Supply voltage	
Type of supply voltage	AC, optional DC
Supply voltage	100 V AC / 240 V AC (autorange) 50/60 Hz; optional 24 V DC
Line frequency	
Line frequency	50 / 60 Hz
Processor	
Processor	Intel Core 2 Duo technology; Intel Celeron M 440, 1.86 GHz, 533 MHz FSB, 1 MB SLC; Core 2 Duo T5500, 1.66 GHz, 667 MHz FSB, 2 MB SLC; Core 2 Duo T7400, 2.16 GHz, 667 MHz FSB, 4 MB SLC
Drives	
Diskette drive	optional: via external USB floppy disk drive
Optical drives	Optional: DVD±R±RW combi drive; on rear, can be operated from side
Hard disk	3.5" SATA hard disk ≥ 160 GB, optional ≥ 250 GB, optional: 2 x 2.5" SATA hard disk module (≥ 80 GB), RAID 1 controller onboard; all drives are vibration-damped
Memory	
Main memory	512 MB to 4 GB
Capacity of main memory, maximum	4096 Mbyte ; At least 3.2 GB can be used
Data areas and their retentivity	
retentive data area in total (incl. times, counters, flags), max.	2 MB battery-backed only DC power supply WinAC RTX 2005 SP1 or higher
Interfaces	
PROFIBUS/MPI	1
USB port	1x at front, 4x at rear, USB 2.0 (500 mA)
free slots	2x PCI or 1x PCI & 1x PCIe (x4) (slots with card retainer), 1x slot for CompactFlash Card
Number of slots /compliant with PCI	2
Number of compact flash slots	1
Connection for keyboard/mouse	USB / USB
serial interface	COM1: 1 x V.24 (RS232)
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
Degree and class of protection	
Front acc. to EN 60529	IP65 (at the front) acc. to EN60529 and tested acc. to NEMA4
IP (at the front)	65 or 66k (15" INOX)
Standards, approvals, certificates	
Approval	CE, cULus (508)
CE mark	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
EN 61000-6-2	Yes
Marine approval	
Germanischer Lloyd (GL)	No
American Bureau of Shipping (ABS)	No
Bureau Veritas (BV)	No
Det Norske Veritas (DNV)	No
Lloyds Register of Shipping (LRS)	No
Ambient conditions	
maximum permissible installation angle +/-	20°
Operating temperature	
Ambient temperature during operation	12", 15": +5 °C to +50 °C in maximum configuration 17", 19": +5 °C to +45 °C in maximum configuration
during operating phase, min.	5 °C
during operating phase, max.	50 °C
Relative humidity	
Relative humidity	Tested to DIN IEC 60068-2-3, DIN IEC 60068-2-30, DIN IEC 60068-2-56: 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 load during operation	Tested to DIN IEC 60068-2-29: 50 m/s ² (5g), 30 ms, 100 shocks
Operating systems	
Operating system	Windows 2000 Prof. (Multi Language), Windows XP Prof. (Multi Language), Windows Vista Ultimate 32 bit, Windows Server 2003 Standard 32 bit (incl. 5 clients), Windows XP embedded (English) on CF card, opt. without operating system
Additional info on operating system	Multi Language: Windows 2000, XP: DE, EN, IT, FR, SP, KOR, CHN (traditional), CHN (simplified), JPN Windows Vista and Server 2003: DE, EN, IT, FR, SP; further languages downloadable from Microsoft
pre-installed operating system	Yes
Windows XP Prof.	Yes

without operating system	Yes
Software	
SIMATIC Software	Optionally in package with SIMATIC WinCC or WinCC flexible
Cables	
Warranty	24 months liability for defects
Dimensions	
additional mounting depth (optical drive)	21 mm
Weights	
Panel PC in central design, approx.	12 kg
Status	Jul 30, 2014