

\*\*\*NO LONGER AVAILABLE\*\*\* SIMATIC PANEL PC 677B  
 2X10/100/1000 MBIT/S ETHERNET; 4XUSB V2.0, 1 X SERIAL  
 (COM1); 12" TOUCH; 800 X 600;

Display	
Design of display	12" TFT touch
Screen diagonal	12 in
Resolution (pixels)	
• Horizontal image resolution	800 Pixel
• Vertical image resolution	600 Pixel
General features	
• Expansion components	Uninterruptible power supply (USP), SIMATIC NET communication modules
Backlighting	
• MTBF backlighting (at 25 °C)	50 000 h
Control elements	
Keyboard fonts	
• Function keys	No
— Number of function keys	0
Touch operation	
• Design as touch screen	Yes
Installation type/mounting	
central design	Yes
distributed design	Yes
maximum permissible installation angle +/-	20°
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
Power loss	
In full configuration	140W max. (15W included per slot)
Processor	
Processor type	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	
Optical drives	Optional: DVD±R±RW combi drive; on rear, can be operated from side
Diskette drive	optional: via external USB floppy disk drive
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, max.	4 096 Mbyte; At least 3.2 GB can be used
Data areas and their retentivity	
Retentive data area (incl. timers, counters, flags), max.	2 MB battery-backed only DC power supply WinAC RTX 2005 SP1 or higher
Hardware configuration	
Slots	
<ul style="list-style-type: none"> <li>• free slots</li> </ul>	2x PCI or 1x PCI & 1x PCIe (x4) (slots with card retainer), 1x slot for CompactFlash Card
<ul style="list-style-type: none"> <li>• Number of PCI slots</li> </ul>	2
<ul style="list-style-type: none"> <li>• Number of compact flash slots</li> </ul>	1
Interfaces	
PROFIBUS/MPI	1
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)
Video interfaces	
<ul style="list-style-type: none"> <li>• Graphics interface</li> </ul>	DVI-I usable for additional display unit (VGA via adapter); color depth 32 bits, 8 to 128 MB Shared Memory
Industrial Ethernet	
<ul style="list-style-type: none"> <li>• Industrial Ethernet interface</li> </ul>	Onboard, 2 x 10/100/1000 Mbit/s, RJ45, no plug-in card necessary
<ul style="list-style-type: none"> <li>— 100 Mbps</li> </ul>	Yes
<ul style="list-style-type: none"> <li>— 1000 Mbps</li> </ul>	Yes
Integrated Functions	
Monitoring functions	
<ul style="list-style-type: none"> <li>• Temperature monitoring</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Watchdog</li> </ul>	Yes
<ul style="list-style-type: none"> <li>• Status LEDs</li> </ul>	Yes
Degree and class of protection	
IP (at the front)	IP65 or IP66k (15" INOX)
Standards, approvals, certificates	
Approval	CE, cULus (508)

CE mark	Yes
EMC	CE, EN 55011, EN 61000-6-4, EN 61000-6-2
<ul style="list-style-type: none"> <li>• EN 61000-6-2</li> </ul>	Yes
<b>Marine approval</b>	
<ul style="list-style-type: none"> <li>• Germanischer Lloyd (GL)</li> </ul>	No
<ul style="list-style-type: none"> <li>• American Bureau of Shipping (ABS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Bureau Veritas (BV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Det Norske Veritas (DNV)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>	No
<ul style="list-style-type: none"> <li>• Polski Rejestr Statkow (PRS)</li> </ul>	No
<b>Ambient conditions</b>	
<b>Ambient temperature during operation</b>	
<ul style="list-style-type: none"> <li>• Ambient temperature during operation</li> </ul>	12", 15": +5 °C to +50 °C in maximum configuration 17", 19": +5 °C to +45 °C in maximum configuration
<ul style="list-style-type: none"> <li>• min.</li> </ul>	5 °C
<ul style="list-style-type: none"> <li>• max.</li> </ul>	50 °C
<b>Relative humidity</b>	
<ul style="list-style-type: none"> <li>• Relative humidity</li> </ul>	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)
<b>Vibrations</b>	
<ul style="list-style-type: none"> <li>• Vibration load in operation</li> </ul>	Tested to DIN IEC 60068-2-6: 10 Hz to 58 Hz: 0.075 mm, 58 Hz to 200 Hz: 9.8 m/s <sup>2</sup> (1 g)
<b>Shock testing</b>	
<ul style="list-style-type: none"> <li>• Shock load during operation</li> </ul>	Tested to DIN IEC 60068-2-29: 50 m/s <sup>2</sup> (5 g), 30 ms, 100 shocks
<b>Operating systems</b>	
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
pre-installed operating system	Yes
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
without operating system	Yes
<b>pre-installed operating system</b>	
<ul style="list-style-type: none"> <li>• Windows XP Professional</li> </ul>	Yes
<b>Software</b>	
SIMATIC Software	Optionally in package with SIMATIC WinCC or WinCC flexible
<b>Accessories</b>	
Accessory components	Touch protective foil, remote kit
<b>Dimensions</b>	

Width of the housing front	310 mm
Height of housing front	400 mm
Overall depth	105 mm
<ul style="list-style-type: none"> <li>• additional mounting depth (optical drive)</li> </ul>	21 mm
Operator control unit (W x H) in mm	400x310 (7 HU)
<ul style="list-style-type: none"> <li>• Operator panel width</li> <li>• Operator panel height</li> </ul>	400 mm 310 mm
Install. dimensions, centralized design (W x H x D without optical drive) in mm	368 mm x 290 mm x 123 mm
<ul style="list-style-type: none"> <li>• Width</li> <li>• Height</li> <li>• Depth</li> </ul>	368 mm 290 mm 123 mm
Install. dimensions, operator panel with distributed design (W x H x D) in mm	368 mm x 290 mm x 87 mm
Install. dimensions, computer unit with distributed design (W x H x D) in mm	298 mm x 301 mm x 100 mm; (298 mm x 301 mm x 80 mm without CD)
Mounting cutout/device depth (W x H x T)	368 mm x 290 mm / 144 mm (incl. optical drive)

### Weights

Panel PC in central design, approx.	13 kg
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### Other

Warranty period	24 mo; Warranty period
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**last modified:** 08/21/2017