



SIMATIC PANEL PC 677B 2X10/100/1000 MBIT/S  
ETHERNET;  
4XUSB V2.0, 1 X SERIAL (COM1);  
12" TOUCH;  
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            | Touch protective foil, remote kit                                     |
| Display                         |                                                                       |
| Size                            | 12.1" TFT Touch                                                       |
| Resolution (pixels)             |                                                                       |
| Resolution (WxH in pixel)       | 800 x 600                                                             |
| General features                |                                                                       |
| Front panel                     | 12" TFT Touch                                                         |
| 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                   | No                                                                    |
| Touch operation                 |                                                                       |
| Design as touch screen          | Yes                                                                   |
| Touch screen (analog/resistive) | Yes                                                                   |
| Installation type/mounting      |                                                                       |
| central design                  | Yes                                                                   |

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| <b>distributed design</b>                                                | Yes                                                                                                                                                                                     |
| <b>Supply voltage</b>                                                    |                                                                                                                                                                                         |
| <b>Type of supply voltage</b>                                            | AC, optional DC                                                                                                                                                                         |
| <b>Supply voltage</b>                                                    | 100 V AC / 240 V AC (autorange) 50/60 Hz; optional 24 V DC                                                                                                                              |
| <b>Line frequency</b>                                                    |                                                                                                                                                                                         |
| <b>Line frequency</b>                                                    | 50 / 60 Hz                                                                                                                                                                              |
| <b>Processor</b>                                                         |                                                                                                                                                                                         |
| <b>Processor</b>                                                         | 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 |
| <b>Drives</b>                                                            |                                                                                                                                                                                         |
| <b>Diskette drive</b>                                                    | optional: via external USB floppy disk drive                                                                                                                                            |
| <b>Optical drives</b>                                                    | Optional: DVD±R±RW combi drive; on rear, can be operated from side                                                                                                                      |
| <b>Hard disk</b>                                                         | 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                         |
| <b>Memory</b>                                                            |                                                                                                                                                                                         |
| <b>Main memory</b>                                                       | 512 MB to 4 GB                                                                                                                                                                          |
| <b>Capacity of main memory, maximum</b>                                  | 4096 Mbyte ; At least 3.2 GB can be used                                                                                                                                                |
| <b>Data areas and their retentivity</b>                                  |                                                                                                                                                                                         |
| <b>retentive data area in total (incl. times, counters, flags), max.</b> | 2 MB battery-backed only DC power supply WinAC RTX 2005 SP1 or higher                                                                                                                   |
| <b>Interfaces</b>                                                        |                                                                                                                                                                                         |
| <b>PROFIBUS/MPI</b>                                                      | 1                                                                                                                                                                                       |
| <b>USB port</b>                                                          | 1x at front, 4x at rear, USB 2.0 (500 mA)                                                                                                                                               |
| <b>free slots</b>                                                        | 2x PCI or 1x PCI & 1x PCIe (x4) (slots with card retainer), 1x slot for CompactFlash Card                                                                                               |
| <b>Number of slots /compliant with PCI</b>                               | 2                                                                                                                                                                                       |
| <b>Number of compact flash slots</b>                                     | 1                                                                                                                                                                                       |
| <b>Connection for keyboard/mouse</b>                                     | USB / USB                                                                                                                                                                               |
| <b>serial interface</b>                                                  | COM1: 1 x V.24 (RS232)                                                                                                                                                                  |
| <b>Video interfaces</b>                                                  |                                                                                                                                                                                         |
| <b>Graphics interface</b>                                                | DVI-I usable for additional display unit (VGA via adapter); color depth 32 bits, 8 to 128 MB Shared Memory                                                                              |
| <b>Industrial Ethernet</b>                                               |                                                                                                                                                                                         |
| <b>Industrial Ethernet interface</b>                                     | Onboard, 2 x 10/100/1000 Mbit/s, RJ45, no plug-in card necessary                                                                                                                        |
| <b>100 Mbps</b>                                                          | Yes                                                                                                                                                                                     |
| <b>1000 Mbps</b>                                                         | Yes                                                                                                                                                                                     |
| <b>Monitoring functions</b>                                              |                                                                                                                                                                                         |
| <b>Temperature</b>                                                       | Yes                                                                                                                                                                                     |

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|---------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Watchdog</b>                                   | Yes                                                                                                                                                                                                                                   |
| <b>Status LEDs</b>                                | Yes                                                                                                                                                                                                                                   |
| <b>Degree and class of protection</b>             |                                                                                                                                                                                                                                       |
| <b>Front acc. to EN 60529</b>                     | IP65 (at the front) acc. to EN60529 and tested acc. to NEMA4                                                                                                                                                                          |
| <b>IP (at the front)</b>                          | 65 or 66k (15" INOX)                                                                                                                                                                                                                  |
| <b>Standards, approvals, certificates</b>         |                                                                                                                                                                                                                                       |
| <b>Approval</b>                                   | CE, cULus (508)                                                                                                                                                                                                                       |
| <b>CE mark</b>                                    | Yes                                                                                                                                                                                                                                   |
| <b>EMC</b>                                        | CE, EN 55011, EN 61000-6-4, EN 61000-6-2                                                                                                                                                                                              |
| <b>EN 61000-6-2</b>                               | Yes                                                                                                                                                                                                                                   |
| <b>Marine approval</b>                            |                                                                                                                                                                                                                                       |
| <b>Germanischer Lloyd (GL)</b>                    | No                                                                                                                                                                                                                                    |
| <b>American Bureau of Shipping (ABS)</b>          | No                                                                                                                                                                                                                                    |
| <b>Bureau Veritas (BV)</b>                        | No                                                                                                                                                                                                                                    |
| <b>Det Norske Veritas (DNV)</b>                   | No                                                                                                                                                                                                                                    |
| <b>Lloyds Register of Shipping (LRS)</b>          | No                                                                                                                                                                                                                                    |
| <b>Ambient conditions</b>                         |                                                                                                                                                                                                                                       |
| <b>maximum permissible installation angle +/-</b> | 20°                                                                                                                                                                                                                                   |
| <b>Operating temperature</b>                      |                                                                                                                                                                                                                                       |
| <b>Ambient temperature during operation</b>       | 12", 15": +5 °C to +50 °C in maximum configuration 17", 19": +5 °C to +45 °C in maximum configuration                                                                                                                                 |
| <b>during operating phase, min.</b>               | 5 °C                                                                                                                                                                                                                                  |
| <b>during operating phase, max.</b>               | 50 °C                                                                                                                                                                                                                                 |
| <b>Relative humidity</b>                          |                                                                                                                                                                                                                                       |
| <b>Relative humidity</b>                          | 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>                                 |                                                                                                                                                                                                                                       |
| <b>Vibration load in operation</b>                | 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>                              |                                                                                                                                                                                                                                       |
| <b>Shock load during operation</b>                | Tested to DIN IEC 60068-2-29: 50 m/s <sup>2</sup> (5g), 30 ms, 100 shocks                                                                                                                                                             |
| <b>Operating systems</b>                          |                                                                                                                                                                                                                                       |
| <b>Operating system</b>                           | 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 |
| <b>Additional info on operating system</b>        | 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                                  |
| <b>pre-installed operating system</b>             | Yes                                                                                                                                                                                                                                   |
| <b>Windows XP Prof.</b>                           | Yes                                                                                                                                                                                                                                   |

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|--------------------------------------------------|------------------------------------------------------------|
| <b>without operating system</b>                  | Yes                                                        |
| <b>Software</b>                                  |                                                            |
| <b>SIMATIC Software</b>                          | Optionally in package with SIMATIC WinCC or WinCC flexible |
| <b>Cables</b>                                    |                                                            |
| <b>Warranty</b>                                  | 24 months liability for defects                            |
| <b>Dimensions</b>                                |                                                            |
| <b>additional mounting depth (optical drive)</b> | 21 mm                                                      |
| <b>Weights</b>                                   |                                                            |
| <b>Panel PC in central design, approx.</b>       | 13 kg                                                      |
| Status                                           | Jul 30, 2014                                               |