

*** SPARE PART*** SIMATIC PANEL PC 677 12" KEY; 800X600;
STANDARD DC 24V; CELERON M370/1.5 GHZ; 400 MHZ FSB;
1MB SLC; 256MB DDR266 SDRAM (1X256MB); 80 GBYTE SATA
HARD DRIVE (3.5") DVD-ROM; WINDOWS XP PROF MUI
(EN,GE,FR,IT,SP,JP,CHN,KOR)

Display	
Design of display	12" TFT
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	
Input device	
• Mouse, at front	Yes
Keyboard fonts	
• Function keys	Yes
— Number of function keys	36
• alphanumeric keyboard	Yes
Touch operation	
• Design as touch screen	No
Installation type/mounting	
central design	Yes
distributed design	Yes; by means of remote kit
maximum permissible installation angle +/-	20°
Supply voltage	
Type of supply voltage	110/230 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 Pentium M Technology (2nd Generation); Intel Celeron M 370, 1.5 GHz, 400 MHz FSB, 1MB SLC; Intel Pentium M 730, 1.6 GHz, 533 MHz FSB, 2MB SLC; Intel Pentium M 760, 2.0 GHz, 533 MHz FSB, 2MB SLC
Drives	
Optical drives	optional: DVD-ROM or 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-RAID hard disk ≥ 40 GB, optional ≥ 80 GB, optional: 2x 2.5" SATA hard disk module(≥ 60GB). RAID1 controller on board. All drives with vibration-resistant mountings.
Memory	
Type of memory	DDR2-533
Main memory	256 MB to 2 GB
Capacity of main memory, max.	2 048 Mbyte
Hardware configuration	
Slots	
• free slots	2x PCI (slots with board retainer), 1x slot for Compact Flash Card
• Number of PCI slots	2
• Number of compact flash slots	1
Interfaces	
PROFIBUS/MPI	onboard, electrically isolated, max. 12 Mbps, no plug-in card necessary, CP 5611-compatible
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: via PCI card
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 Mbit/s, RJ45, no plug-in card necessary
— 100 Mbps	Yes
— 1000 Mbps	No
Integrated Functions	
Monitoring functions	
• Temperature monitoring	Yes
• Watchdog	Yes
• Status LEDs	Power, temperature (on front panel)
Degree and class of protection	

IP (at the front)	IP65 (on front) to EN60529 and NEMA4
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
• Polski Rejestr Statkow (PRS)	No
Ambient conditions	
Ambient temperature during operation	
• Ambient temperature during operation	With full configuration: +5 °C to +45 °C or +5 °C to +50 °C in installation space, if max. 40 °C at front
• min.	5 °C
• 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 (5 g), 30 ms, 100 shocks
Operating systems	
Operating system	Windows 2000 Prof. (Multi-Language), Windows XP Prof. (Multi-Language), opt. without operating system
pre-installed operating system	Yes
Additional info on operating system	Multi-Language: DE, EN, IT, FR, SP, KOR, CHN (Traditional), CHN (Simplified), JPN
without operating system	Yes
pre-installed operating system	
• Windows XP Professional	Yes
Software	
SIMATIC Software	Optionally in package with SIMATIC WinCC or WinCC flexible
Accessories	
Accessory components	Slide-in keyboard labels, direct key module, remote kit
Dimensions	

Overall depth	
• additional mounting depth (optical drive)	20 mm
Operator control unit (W x H) in mm	483 mm x 310 mm (19", 7 HU)
• Operator panel width	483 mm
• Operator panel height	310 mm
Install. dimensions, centralized design (W x H x D without optical drive) in mm	450x290x104
• Width	450 mm
• Height	290 mm
• Depth	104 mm
Install. dimensions, operator panel with distributed design (W x H x D) in mm	450 mm x 290 mm x 69 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)	450 mm x 290 mm / 122 mm (incl. optical drive)
Weights	
Panel PC in central design, approx.	12 kg
Other	
Warranty period	24 mo; Warranty period
last modified:	08/12/2017