

Panel PC 677B with 46" display

Intelligent large-scale display for the manufacturing industry

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SIMATIC HMI

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Technology overview

Highlights

- Industrial Panel PC
- PC 677B with large-scale display
- Degree of protection IP65 front/IP54 rear
- Computer unit Box PC 677B
- TFT LCD 46 with 4 mm laminated glass pane
- Antireflex-coated
- Front resistant to welding spatter
- Powder-coated sheet-steel enclosure
- Suitable for mounting on supporting systems
- Audio amplifier module for up to 3 pairs of loudspeakers
- Remote control display functions

The rugged design with the large display has been designed for industrial and maintenance-free use.

The Panel PC 677B with 46" display is therefore exceptionally suitable for use as an Information display for worker locations, as a display for quality data or as a plant overview in the automotive, production or pharmaceutical industries and in the logistics sector. It is easy to fit at a readily visible position using a supporting system, and can be operated conveniently by remote control.

The Panel PC 677B with 46" display satisfies highest demands on the:

- Ambient temperature
- MTBF of the backlight
- Reading angle
- Degree of protection (IP65 at front, IP54 at rear)

The Panel PC 677B is equipped on the left and right of the enclosure with threads for a mounting system as well as additional securing lugs (top) and rubber feet. The ports for loudspeaker, USB and Ethernet connections are readily accessible at the side.



Interface module on the enclosure



Enclosure version without loudspeaker

Advantages of use

- Industry-compatible 46" display
- Laminated glass pane, anti-glare and resistant to welding spatter
- Industry-compatible enclosure IP65 / IP54
- Remote control for operation
- Integral audio amplifier
- Interface module on the enclosure
- Low-noise operation without cooling unit up to an ambient temperature of 40 °C
- PC without HD and without CD for maintenance-free use
- Auto-refresh function for display

Software tools

The software tools can be used e.g. to set the volume and brightness, or to switch off the display. Access is by using defined interfaces via Ethernet and a separate GUI.

Available software tools

- Remote control software onboard
 - Volume control and brightness setting
 - Standby circuit of display, i.e. switching-off of backlight
 - Status messages of display
- Remote control software Web-based
 - Like remote control software onboard

Customized modifications and configurations

Customized design layout:

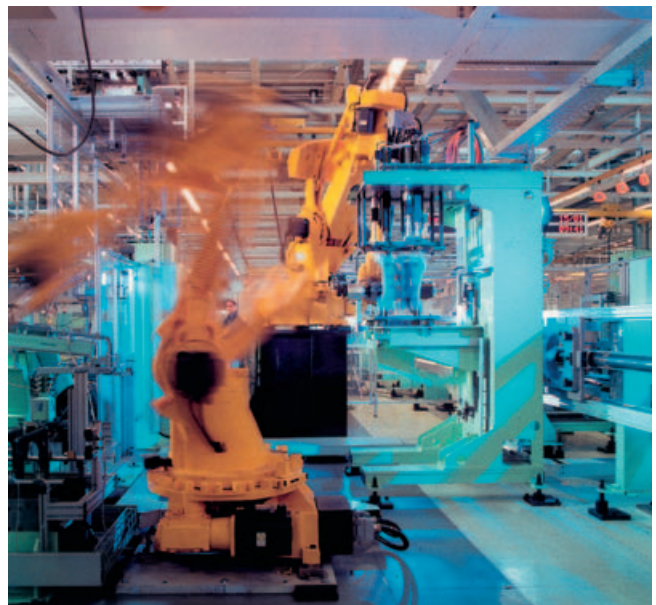
- Selection of enclosure color
- Configurable computer units:
 - Box PC 677B (e.g. with HDD and Windows XP professional)
 - Box PC 477B
- Without computer unit as Flat Panel
- Without audio module (without loudspeakers and without audio module)
- With active cooling unit for ambient temperatures > 40 °C

Product specification of modifications according to customer requirements ¹⁾

Quotation preparation by SIMATIC HMI specialists, specification of

- Non-recurring costs
- Prototype costs
- Standard unit prices
- General conditions (product agreement)

¹⁾ There is a minimum annual quantity/purchase quantity which must be agreed upon with the customer in the project. Customized products can only be ordered in conjunction with a product agreement. A customer-specific order number is allocated during the product agreement process.



Technical specifications	
	Panel PC 677B with 46" TFT LCD
Display	LCD TFT 46", 1366x768 Reading angle +/-178° CCFT, MTBF 50,000 hours
Brightness	Factory-set 300 cd Adjustment range 150 cd to 400 cd
PC configuration	Celeron M440 processor, 1.8 GHz 512 MB RAM 1 GB CF drive Windows XP Embedded operating system (SP2), English
Loudspeakers	1 pair mounted on left and right Bose high-pressure loudspeakers, 7 Watt Additionally on interface module: 4 connections for 2 pairs of loudspeakers, 7 Watt each
Power supply	230 V AC
Degree of protection	IP65 at front IP54 at rear
Protection class	Protection class I in accordance with IEC 61140
Permissible ambient temperature (without condensation)	Tested in accordance with IEC 60068-2-2 +5 °C to +40 °C (passive cooling)
Vibration during operation	0.25 g (30-300 Hz)
Shock resistance during operation	2,5 g
Certifications	CE
Weight	92 kg
Interfaces	3 x USB V2.0 (high current) M12 for 10/100/1000 Mbit/s Audio output 4 x 7 W into 8 ohm (maximum cable length 30 m)
Special features	PC without HD and without CD for maintenance-free use Remote control for operation Auto-refresh function for display

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