

Industrial Panel Computer

IPC G 19.0-ST



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The IPC G 19.0-ST Industrial Panel Computer is a general purpose Intel x86-processor based information and control panel. IPC G supports both Linux and Windows XP Embedded operating systems. IPC G is especially designed for harsh applications, where it is exposed to extreme environmental conditions and where a high reliability is an absolute must. Typical installations include process automation, transportation and offshore applications. The IPC G provides an efficient and user-friendly dedicated operator interface and it can be installed in enclosures or desks close to the machinery.

The modularity of the panel allows it easily to be tailored for various industrial applications. Several display, interface and component rating options are available.

IPC G features a TFT 19.0 colour graphic display. The operator interface is through a capacitive touch screen. Touch glass has long life-time and it is resistant against cleaning chemicals, dirt and corrosive atmosphere. For external communications there are an 100/10 Mbit Ethernet interface, RS-485 asynchronous serial port and a RS-232 asynchronous serial port. For external devices such as mouse, trackballs and keyboards there are two USB connectors. USB connectors can also be used for maintenance and program updates using USB memory sticks.

Panel has PCI expansion card slot which can be used for application specific extensions, for example redundant Ethernet, fieldbuses (including CAN and Profibus) and IO cards.

The electronics is housed in an IP 65 (at front) classified aluminium enclosure.

SPECIFICATION

Applications

The operating system of IPC G is either Embedded Linux or Windows XP Embedded. Industrial Panel Computer IPC G can be used in several various ways:

1. As a terminal server
2. As a general purpose Linux/Windows XP PC
3. With GOP software

IPC G 19.0-ST Technical Data

CPU board:

CPU Intel compatible 800 MHz

SDRAM default 256MB, maximum 1GB

(1 SODIMM slot)

Compact Flash memory default 512 MB, maximum 8GB.

100/10 Mbit ethernet

Display:

19,0" SXGA TFT LCD display, resolution 1280x1024 pixels. Contrast 1000:1, viewing angle: -89..+89 (horizontal) -89..89 (vertical). Luminance 250cd/m2

Touch Screen:

3M Cleartek II capacitive touch screen.

Connectors:

All interface connectors are located in the rear panel of the IPC G unit.

Power, Phoenix-connector

Isolated RS485, Phoenix-connector (sharing Power connection)

Ethernet, Rj45

Isolated RS232, D9-connector. Signals RXD, TXD, GND and +5V are provided.

3 x USB 2.0 (USB-A), not isolated.

Compact Flash disk

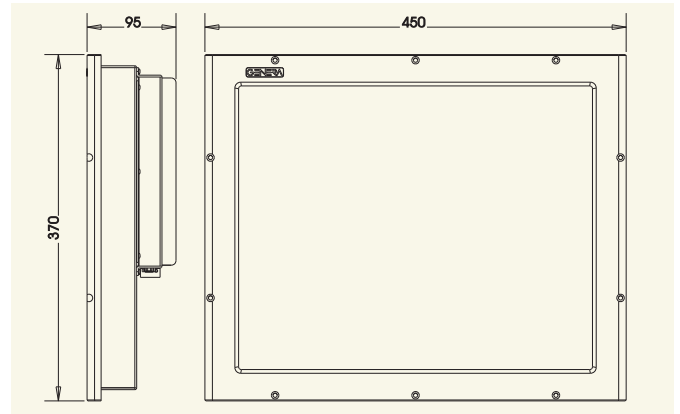
PCI expansion card slot

Loudspeaker connector, AC97 audio, 1W built-in amplifier

Physical Dimensions

Width 450 mm, height 330 mm, depth 90 mm (mounting cutout: 419 x 308 mm)

Weight: 8 kg



Power supply

Operating voltage is 24V or 48V (18V-72V). Power consumption is 50 W. (max)

Protection class

Front: IP65

Back: IP20

MTBF

MTBF@25°C > 40 000 hours

Environmental Specification

Operating temperature range (ambient temperature) 0..+45 C

Storage temperature range -20..+65 C

EMI: EN 61000-6-2 & EN 61000-6-4

IACS: Electrical Installations E10; except salt mist test including power supply failure and variations

Tightness: IEC 60529

Cold: IEC 60068-2-1, test Ad

Dry heat: IEC 60068-2-2, Test Bb

Humidity: IEC 60068-2-30, Test Db

Ordering reference

IPC G 19.0-ST Industrial Panel Computer with Windows XP embedded



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