

Panel Series

Industrial PCs

robust and reliable



Compact built-in Panel PCs
For challenging environments
Simple touch operation



noax[®]
Technologies

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Industrial PCs – The Panel Series

Uncomplicated installation and high scalability

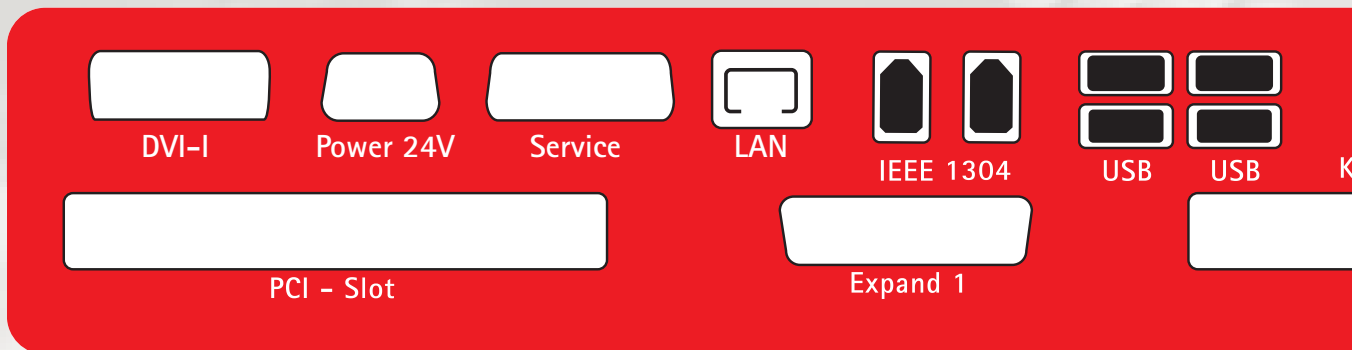
The P Series industrial PCs were specially developed for installation in control panels, control consoles or switch-gear cabinets. The panel computers are characterized by their high scalability and large capability coupled with a small installation depth. Displays are available in 8, 12 and 15-inch diagonal sizes. A special mounting rack allows the devices to be installed easily, even in a 19-inch cabinet. Depending on the application area, the panel IPC can be fitted with various processor power, operating systems or memory expansions. The use of high-quality components makes the devices particularly suitable for harsh production environments that require reliable and robust industrial PC technology. As standard, the panels are equipped with high-contrast TFT displays with very long life expectancy and an integrated touch screen that guarantees good readability and simple operation even under poor conditions.



The small installation depth allows a simple installation in a wide range of cabinet systems

Reliable long-term operation guaranteed

The Panel IPCs achieve the NEMA 4X (IP65) degree of protection at the front. This means dirt, dust or liquids cause no problems. The use of heavy-duty industrial components in the noax industrial PCs even allows their permanent use when subject to mechanical effects such as vibration or shock.



Connector area of the N8 board version (we reserve the right to make technical changes)

P Series – three panel PCs for limited space availability



Panel P8 – 8 inch built-in PC

The noax P8 is an extremely compact and highly scalable panel industrial PC for simple, trouble-free installation. The distinctive feature of the Panel PC is its completely sealed construction without any ventilation slots and failure-prone external fans. That is the reason why extreme ambient conditions such as dust, water, or moisture present no problems at all for the noax P8. Because of its extremely small dimensions of only 10.4x8.6x3.9 inch (WxHxD), this fully-fledged industrial PC is particularly easy to install in machinery, switching cabinets or control panels with very limited space, and with the help of a special mounting frame, the P8 can be easily installed in a 19 inch cabinet.



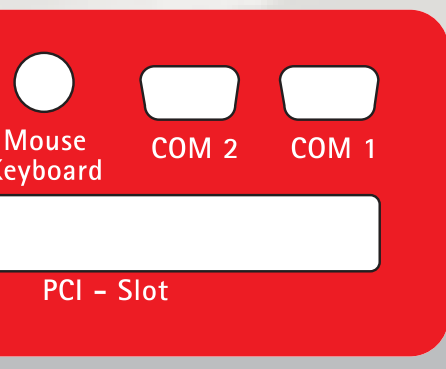
Panel P12 – 12 inch built-in PC

The P12 is a universally usable Panel PC. Depending on the requirements, the 12-inch version can be equipped with different kinds of noax all-in-one motherboards. Its scaling capabilities cover the processor power, the RAM memory, the hard-disk size or the operating system. The comprehensive on-board interfaces, the Ethernet interface and simple expandability using standard slots allow the uncomplicated connection of various peripheral devices using the standard slots. The distinctive feature of the 12 inch panel PC is its completely sealed enclosure for system protection against oil, water, dust or moisture.



Panel P15 – 15 inch built-in PC

The P15 achieves the NEMA 4X (IP65) degree of protection at the front. A stainless steel front panel and special noax seals allow simple cleaning and disinfection. With its high-contrast 15-inch TFT display it is particularly suitable for the visualization of process or machine data, etc. Its 15-inch display, with 1024x768 pixels and a wide viewing angle, makes it very easy to read, even under poor environmental conditions. The standard integrated touch panel permits simple and reliable operation of the industrial panel PC.



The ingenious technology of the Panel Series

The Panel Series offers high performance, high scalability and enormous expandability coupled with maximum reliability. The all-in-one motherboards developed in-house by noax form the basis of every noax Panel PC. As standard, they are all equipped with Intel processors, many on-board interfaces and an Ethernet interface. Furthermore, the free standard PCI slots allow the Panel PCs to be upgraded at any time.

The appropriate Panel IPC for every built-in type



Industrial production

In the industrial production world downtimes mean a reduction in profitability of this production line. This is why the quality and longevity of the industrial computers in this production line is important. Besides simple operation and easy installation into the process, protection against dust, all kinds of liquids, dirt, humidity and vibration is essential. All noax computers are equipped with industrial components. Sensitive components such as ribbon cables, edged connectors and outside ventilation are avoided. In addition all noax industrial touch panel PCs are completely splashed water sealed. These features make the noax PCs ideal for the use in industrial production environments.



Process visualization

Continually increasing process automation in production means that visualization is gaining more and more importance. The consequent demands placed on IPCs affect not only the robust design, but, in particular, the individual scalability and capability of the terminals coupled with the optimum readability of the displays. With the P15, noax provides a panel computer that supplies everything required for use in modern process visualization. Depending on the application area, the Panel PC can be modularly equipped with different noax all-in-one motherboards. The use of the high-contrast 15 inch display with integrated touch panel ensures that the user has both very good readability and simple operation.



The food processing industry

The demands placed on an industrial computer in the food processing industry affect, in particular, the foodstuff compatibility, protection from spray water and resistance to cleaning and disinfectant agents. The powerful and individually scalable noax industrial panel PCs meet these demands with ease. The stainless steel construction means all devices meet the NEMA 4X (IP65) degree of protection at the front. Furthermore, the food-safe seal between the enclosure and the display permits simple and uncomplicated cleaning. For permanent use when subjected to chemicals, the touch displays can be affixed with noax touch-sensitive touch protective film appropriate for the type of acid or alkaline solution.



Micro-controller

noax industrial PCs are equipped as standard with a micro-controller that simplifies work on the industrial computers and greatly increases reliability. The micro-controller performs various monitoring, control and statistical functions. The user-friendly Windows dialog box can be used to individually configure and monitor operating states such as the voltage, temperature or backlight. Should critical operating states occur, warning information will be displayed before the PC automatically shuts down.

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The right accessories for every application area



Touch panel

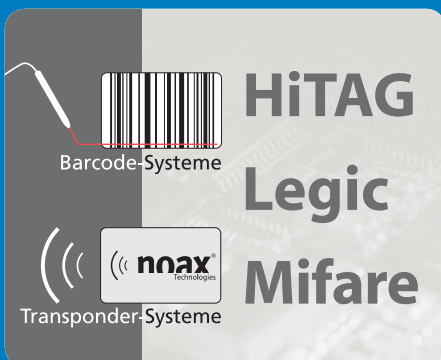
All noax Technologies industrial computers have resistive analog touch screens. An appropriate touch panel driver is installed in the system.

Because the resistive touch can be activated very precisely by pressure, all noax industrial computers can be operated safely, even with gloves. Unlike other touch technologies, resistive analog touch panels are not affected by water drops or metal particles.



Industry-conforming components

noax computers have been specially designed for use in harsh industrial environments. This is reflected not only in the high level of workmanship, but also in the selection and placement of the components. Standard installation of heavy-duty locking connectors, the metal fixing of the processor heat sink and the intentional rejection of components susceptible to faults also protect the industrial computers against extreme conditions such as vibration or shock.



Peripheral equipment

Beside a selection of industrial touch panel PCs noax also offers a wide variety of peripheral equipment for all kinds of applications. The selection varies from WLAN components (antennas, access points, WLAN boards) to identification readers (barcode, transponder Legic, Hitech, Mifare) and system upgrades such as memory, hard drives, flash disks, network boards and interface modules. Also available are external accessories such as keyboards, drives, transparent protective screen film and power supplies.



Fields of application

With the Compact, Steel and Panel Series industrial PCs, noax Technologies AG can meet special requirements for a wide range of application areas:

- Time and attendance
- Production data acquisition
- Machine data acquisition
- Quality assurance
- Warehouse management
- Process visualization

www.industrial-panel-computer.com

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Company profile



In-house development and production

Industrial computers have to be very robust and reliable to withstand tough production environments. noax is specialized and has many years experience in selecting the right parts, and developing industrial electronic, integration and production for their industrial PCs. All parts of the computer, such as "all-in-one" motherboard, enclosure and cooling system are developed under ISO 9001 conditions by noax. Selected quality controlled sub contractors are integrated into the manufacturing process. Final assembly and test are done in-house by noax. High standards in test procedures and quality management to fulfill the various test certificates are essential for the use of an IPC in an industrial environment. This is also why noax only uses high quality, industrial grade components for their computers. Only these features guarantee a reliable and long lasting operation.



Comprehensive service and support

In pre sales and after sales noax Technologies offers competent service and support. The noax service program is optimized to the needs in the companies' investment businesses. The competent consultation of customers in the pre sales stage and the possible flexible configuration of noax industrial computers allow fast integration into the existing customer production process. In case of service the noax hotline, the fast throughput in the local service departments or the available replacement equipment guarantee very short production down times.



Quality management

All noax industrial PCs are produced in accordance with ISO 9001 requirements. noax is a 9001 company. After production, each industrial PC undergoes a burn-in test cycle under extreme conditions lasting several days. All noax PCs fulfill the following safety certificates:

- UL 1950
- FCC
- CE/GS
- EMI standards of CE
- Lead-free conformity



Headquarters

Since foundation in 1988 noax develops and produces industrial touch panel PCs for harsh environments. Because our development is proprietary we keep the knowledge how to build better IPCs in-house. The newest development is the 8th generation "all-in-one" PC board. Our good and cooperative relationships with customers allow noax to integrate the industry requirements necessary for a quality PC and to enhance quality from generation to generation of PCs. Besides the headquarters in Germany, noax opened a North America headquarters in 2000 with its marketing, sales and service facilities necessary for this market.

noax Technologies: a reliable and competent partner for the challenges of the future.

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