

Product Overview

Industrial PCs

rugged and reliable



Compact Series



Steel Series



Panel Series

Fully enclosed – NEMA 4X (IP65)
For extreme requirements
Simple touch operation

A large, faint, white silhouette of a rhinoceros is visible in the background of the slide, positioned on the right side.

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Technologies

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Industrial PCs - rugged and reliable

Quality
Made in Germany

noax Industrial Computers – Quality, made in Germany

noax Technologies develops and manufactures industrial PCs for extreme production environments. Their specific features are a rugged and reliable design with a completely sealed enclosure and a high performance. noax industrial PCs are full-fledged PCs which are specifically designed for industrial requirements. These IPCs combine industrial quality with the benefits of standardized PC technology. This allows them to be upgraded at any time and makes them compatible with all standard hardware and software systems. It also makes them easy to integrate into existing IT environments.



IPCs – completely sealed and watertight – NEMA 4X (IP65)

Due to the energy-saving electronics design, noax Technologies has succeeded in developing a completely sealed enclosure without any failure-prone external fans. The entire heat is dissipated via the enclosure and specially designed cooling fins. It is, therefore, not possible for dirt or moisture to get into the interior of the unit and to destroy the electronic components. In addition, all noax IPC components are specifically protected against shock and vibration.



The sophisticated technology of noax Industrial PCs

Despite their compact, enclosed design, these IPCs provide high power, high scalability, and tremendous upgradeability. The proprietary noax motherboards are the heart of every noax IPC. The standard equipment of each IPC includes Intel processors, various on-board interfaces plus an Ethernet interface. In addition, the IPCs can be upgraded any time via free standard PCI slots. This allows a simple, fast, and easy integration of various peripheral devices.



The noax micro controller – enhanced operating safety

All noax industrial computers have a micro controller as standard equipment which not only makes working with an IPC easier but also provides greatly enhanced operating safety. The noax micro controller takes on various monitoring and control tasks. A user-friendly Windows entry mask allows operating states to be individually configured and monitored, such as voltage, temperature, or display backlight. A warning symbol is displayed if a critical operational state occurs which is followed by a shutdown of the industrial PC by the automatic shutoff function.

Three powerful Product Series for a wide variety of applications



Compact Series

The noax Compact Series IPCs are equipped with extremely rugged and shock-resistant enclosures. Their compact, rugged, and completely sealed design allows multi-functional utilization in the most extreme production environments. Applications range from the acquisition of production data, machine data, and time and attendance to machine control with process visualization. Another application range is the mobile use in logistics and order picking, or in the construction industry mounted on various carrier vehicles. All units meet the demands of protection class NEMA 4X (IP65). The Compact Series IPCs are available with display sizes of 8, 12, and 15 inches.

Steel Series

The noax Steel Series IPCs are characterized by their polished V2A stainless steel enclosures with smooth surfaces. The use of special seals between enclosure and screen means that there are no hidden gaps or cracks. Therefore noax Steel Series IPCs meet even the most rigorous hygiene standards such as those prevalent in clinical areas, chemical and pharmaceutical laboratories, or food processing. Because of their completely enclosed design, all IPCs are fully protected against splashed water and meet the demands of protection class NEMA 4X (IP65). The Steel Series industrial PCs are available with display sizes of 12, 15, and 19 inches.

Panel Series

noax Panel Series IPCs were specially designed for installation into racks, control panels, or machines. The front panels of the units conform to protection class NEMA 4X (IP65), and the units are available with display sizes of 8, 12, and 15 inches. A mounting frame allows the units to be mounted in a 19 inch rack simply and easily.

The right noax industrial touch panel PC for every application



Industrial production

In the world of industrial production, downtimes result in an instant reduction of profitability of a production line. In this context, a high operating safety of IPCs is particularly important. Besides simple operation, individual scalability, and easy integration into the existing production process, high protection against dust and liquids is essential, as is resistance to vibration. All noax industrial computers are equipped exclusively with industrial quality components, and failure-prone items such as cable harnesses and external fans are avoided consistently. In addition, the completely enclosed IPCs are fully protected against splashed water. noax industrial PCs therefore fully meet the high requirements of harsh production environments.



Mobile applications

The demands on a PC for mobile applications are very specific. Besides a compact design, these are simple operability, good readability of the display, easy integration of various peripheral devices, and WLAN connection. In order to guarantee system stability, the industrial PCs have to withstand extreme effects such as vibration, shock, dust or water. The powerful and individually scalable noax C Series IPCs fulfill these requirements. Because of their completely enclosed design and the omission of failure-prone external fans, all units meet the demands of protection class NEMA 4X (IP65). In addition, the industrial computers are fitted with shock and vibration-resistant components as standard equipment.



Food industry

The demands made on an industrial PC in the food industry are mainly concerned with food suitability, splashed water protection plus resistance to detergents and disinfectants. The powerful, individually scalable noax S Series industrial computers meet these demands perfectly. Because of their fully enclosed and completely smooth V2A stainless steel design and the fact that they do not have any failure-prone external fans, all units comply with protection class NEMA 4X (IP65). All gaskets used between enclosure and display are food safe and permit easy cleaning. Therefore the dreaded formation of germs has no chance at all.



Pharmaceutical/Chemical industry

Clean rooms play a central role in the pharmaceutical industry, from the production of active ingredients and the end product through to quality control. Even the smallest pollution from dust or germs can shut down the whole production process. In view of this fact, the fully enclosed design of the industrial PCs and their easy cleaning and disinfection are particularly important. noax Steel Series IPCs have completely sealed stainless steel enclosures. Their perfectly smooth surfaces permit easy, quick cleaning or disinfection, even with aggressive alkaline solutions or acids.

The most common applications for noax industrial PCs:

Process Visualization
Production Data Acquisition (PDA)
Logistics/Order Picking

Time and Attendance
Quality Assurance (QA)
Machine Data Acquisition

Machine Control
Mobile Indoor/Outdoor Use
Weighing Terminal

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Reliability also in the details



Peripheral devices

Besides a selection of industrial PCs, noax Technologies also offers the appropriate peripheral devices for use in a wide range of application areas, ranging from WLAN components (antennas, access points, WLAN cards), and identification systems (barcode, chipcard, transponder readers) and system upgrades such as memory, hard disks, flash disks, network cards, and interface modules. Also available are external accessories such as keyboards, drives, power supplies, and protective film.



Assembly accessories and shock absorber pads

noax offers a wide range of assembly accessories for mounting the industrial PCs on a wide selection of carrier systems, from desk and wall mounts with or without ball head to a variety of bases. There are also custom-made shock absorber pads with vibration inhibitors available for the direct mounting of industrial PCs on carriers subject to intensive vibration.



Connector covers

Additional protection of the connector area of the industrial PCs can be achieved by using a variety of connector covers which are available as options. noax Technologies offers different types of covers for the Compact and Steel Series, the rubber lip type (IP54) and the version with NEMA 4X (IP65) grommets. Both varieties are available either with or without reader breakouts.



Touch panel

All noax industrial PCs are fitted with resistive analog touch screens. An appropriate touch panel driver is installed in the operating system. The noax touch panel responds reliably and precisely to pressure and can therefore be operated safely even with gloves. Unlike other touch technologies, the touch panels are not affected at all by metal particles or drops of water.

www.industrial-panel-computer.com

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Company profile



In-house development and production

Industrial computers have to prove their ruggedness and reliability under harshest production conditions. noax Technologies has many years of experience in the selection, integration, development and production of industrial PCs. The „all-in-one“ motherboards, enclosures, cooling systems, and other main components are designed by noax. The components are produced in Germany by selected sub-contractors under constant quality control. The final assembly is done in-house by noax. Highest quality requirements, test procedures and certification standards are the basis for using the industrial PCs in tough industrial environments. This is why noax only uses high-quality, industrial grade components and thus guarantees a long-term availability of five years.



Comprehensive service and support

noax Technologies also offers comprehensive customer care and competent service and support both in pre-sales and after sales. The noax service program is optimized to suit the needs and requirements of the capital goods market. With their competent project consulting with individual configuration of the industrial PCs and ready-to-use installation, noax guarantees a simple and fast integration into existing production environments. Longer production downtimes can be avoided due to the in-house service hotline, very short repair processing times of eight working days, and the flexible provision of replacement units.



Quality management

noax industrial PCs are produced in accordance with ISO 9001 requirements. After production, each PC undergoes a burn-in test cycle under extreme conditions for several days. As industrial PCs „Made in Germany“, all noax PCs comply with highest safety standards conforming to the following certification marks:

- UL 1950
- FCC
- CE/GS
- EMI standards of CE
- lead-free conformity (RoHS)



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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