

# Steel Series

## Industrial PCs

robust and reliable



S12



S15



S19

Fully enclosed – NEMA 4X (IP65)  
For the highest hygiene standards  
Simple touch operation

A large, faint, grayscale image of a rhinoceros, viewed from the front, serving as a background for the lower right portion of the advertisement.

**noax**<sup>®</sup>  
Technologies

# noax<sup>®</sup>

## Industrial PCs – The Steel Series

### Robust and waterproof computers for the highest hygiene standards

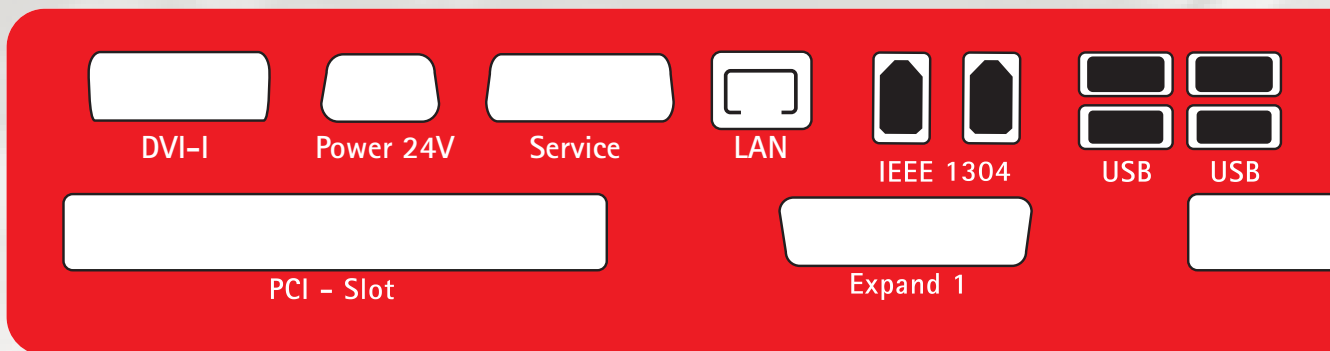
The noax industrial Steel Series PCs are characterized by their polished V2A 1.4031 (304) stainless steel enclosure with absolutely smooth surface. The use of special food-safe seals between the enclosure and the touch display means that the units no longer have any slits and joints. Thus, the noax Steel IPCs meet the most stringent hygiene requirements prevailing in clinical areas, in chemistry and pharmaceutical laboratories or in food processing. The fully-enclosed design without ventilation slits and external fans makes the industrial computers completely impervious to splashed water and so achieve the NEMA 4X (IP65) degree of protection. The Steel Series industrial PCs are equipped with high-contrast industrial TFT displays and a long life expectancy that also guarantees good readability even under poor conditions. The displays are available in 12 and 15-inch diagonal sizes. The integrated resistive touch panels ensure simple operation.



Fully-enclosed stainless steel enclosure - NEMA 4X (IP65)

### Reliable long-term operation under extreme conditions

The fully achieved NEMA 4X (IP65) degree of protection means dust, dirt, moisture and water are no problem for the noax industrial PCs. Without any problem, the PCs operate even when subjected to mechanical and chemical effects. For example, touch-sensitive protective film appropriate for the type of acid or alkaline solution can be affixed if the touch displays are permanently subjected to chemicals.



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

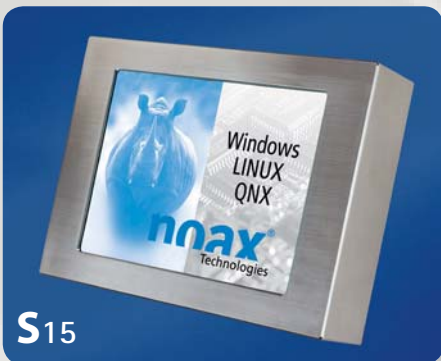
## S Series – ideal IPCs for a reliable IT system in harsh environments



S12

### Steel S12 – 12 inch stainless steel touch panel PC

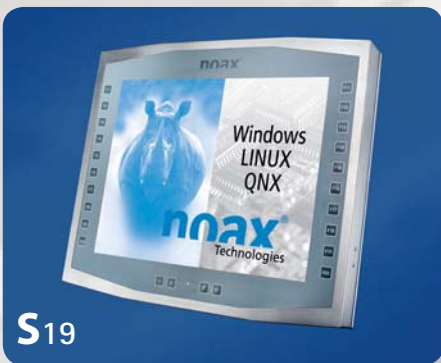
The S12 is a universally usable industrial PC system. Depending on requirements, the 12 inch IPC can be equipped with different noax "all-In-one" boards. It is upgradeable for processor speed, DRAM memory, hard disk size and the type of operating system. Comprehensive on-board interfaces, like the Ethernet, keyboard, printer and serial interfaces allow the noax touch PCs to be used as standard desktop computers. Two easily installable standard PCI slots allow uncomplicated connection to many custom peripherals. Furthermore, optional WLAN cards allow integration into wireless LAN networks. This makes the S12 ideal for food processing and chemical, pharmaceutical or clinical areas.



S15

### Steel S15 – 15 inch stainless steel touch panel PC

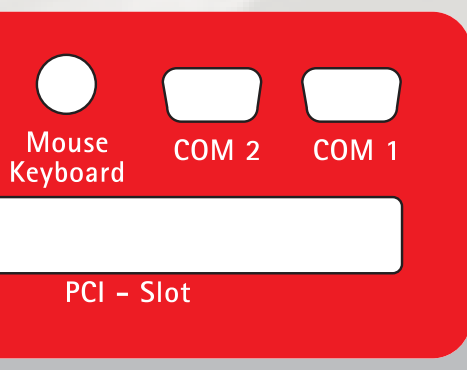
The S15, with its polished stainless steel enclosure, was specially developed for use under maximum hygiene standards. The use of a specially tapered foodsafe rubber seal between the bezel and the touch display means that the S15 has no hidden slots and joints. Its robust and compact stainless steel construction and the industrial locking connectors protect the IPC from extreme mechanical and chemical hazards, such as vibration, shock, acids and alkaline solutions. Its high-contrast industrial TFT display guarantees good readability even under wide viewing angles. Its standard network interface and the other comprehensive on-board interfaces make the S15 universally usable, such as for weighing, identification and standard IT systems.



S19

### Steel S19 Premium Line – 19 inch stainless steel IPC

The 19 inch industrial PC is in a new noax "Hygienic" designed stainless steel enclosure which meets NEMA 4X (IP65) standard. There are no gaps and chinks between enclosure and touch screen because of the food safe plastic front. Twenty programmable function keys on the front of the PC, in combination with 4 function keys (on/off; brightness; contrast; special function) in combination with LEDs for the internal standard housekeeping micro processor, make the S19 extreme user friendly and show, together with the mentioned LEDs and an micro processor NSetup window on the screen, the internal condition of the S19 PC system. The PC is equipped with a very bright and long lasting 19 inch TFT display. The resolution of the display is SXGA (1280x1024) with an analog resistive touch screen in front. The PC itself is again the noax proprietary N8 motherboard with a Pentium M processor.



### The ingenious technology of the Steel Series

Despite its compact and fully-enclosed stainless steel construction, the Steel Series offers large scalability, enormous expandability and high performance. The all-in-one motherboards developed in-house by noax form the basis of every noax industrial 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 IPCs to be upgraded at any time. This permits the simple and uncomplicated connection of various peripheral devices such as weighing systems, transponder readers, chipcard readers or barcode scanners. Printers, external keyboards or drives can also be connected without problem.

# The perfect Stainless Steel Touch PC for every application



## Food industry

Food compatibility is an essential feature for a touch panel PC in the food industry. That means resistance against wash down, disinfection and detergents. All powerful noax touch panel S Series PCs fulfill these requirements perfectly. Because of the completely sealed V2A (304) stainless steel enclosures with their perfectly smooth surfaces, all noax computers have NEMA 4X (IP65) environmental rating. All gaskets used are food safe and guarantee easy cleaning. Therefore dreaded germ and bacteria growth have no chance.



## Pharm/Chemical industry

From the production of chemicals to the production of the product itself through to quality control, clean rooms play an essential role in these applications. Even the smallest contamination from dust or germs could shut down the whole production process. noax touch panel PCs with their completely closed, disinfected enclosures are the perfect solution for a PC in a clean room. In addition, because no ventilation slots and no outside fans are on the enclosure, no electronic dust can be circulated. Because of the completely sealed V2A (304) stainless steel enclosure with its perfectly smooth surface all noax computers have NEMA 4X (IP65) environmental rating and are resistant to alkaline and acid.



## Medical and clean room areas

IT systems are increasingly common in clinical environments. This demands that computers meet the highest hygiene standards. Noise and dust generated by fans and electronics should also be eliminated. At the same time, a wide viewing angle of the screen is important. The noax S Series industrial computers meet these high demands. The fully-enclosed stainless steel design allows washing down and disinfection. The high-contrast TFT displays with 19 inch maximum size gives the user optimum readability. All devices fulfill the electromagnetic interference (EMI) specifications.



## Fully enclosed and waterproof – NEMA 4X (IP65)

The use of energy saving electronics allows noax to dispense with unreliable external fans despite the fully enclosed design. All the heat is dispersed over the stainless steel enclosure. This protects the internal electronics from dirt or moisture.

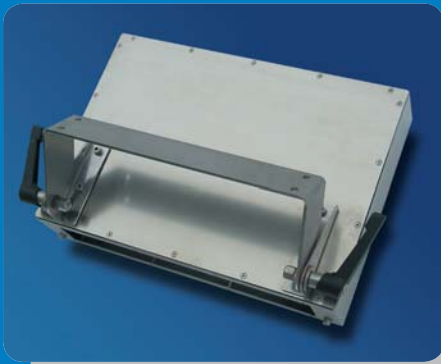
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The correct accessories for every application



## 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.



## Mounting and shock/vibration absorbing accessories

Depending on the application noax offers a variety of mounting possibilities. These are tilting wall/desk mounts to VESA 75-type mounts with 3 axis ball mounts and floor stands. For harsh environments, special shock and vibration reducing adapters are also available.



## Connector protection

Additional protection of the connector panel at the bottom of the industrial computer can be achieved with various optional available connector protection. Different kinds of connector protections are available for the Steel Series, the rubber lip version (NEMA 12/IP54) and the grommet version for NEMA 4X (IP65) applications. Both are also available with a reader break out.



## Touch panel

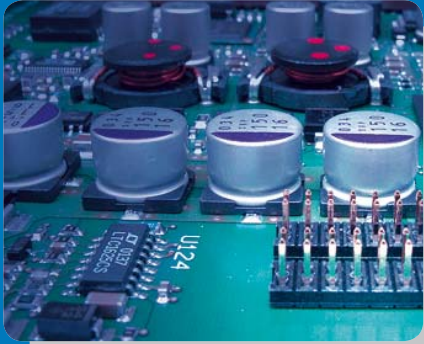
All noax Technologies industrial computers have resistive analog touch screens. An appropriate touch panel driver is installed in the system.

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.

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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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