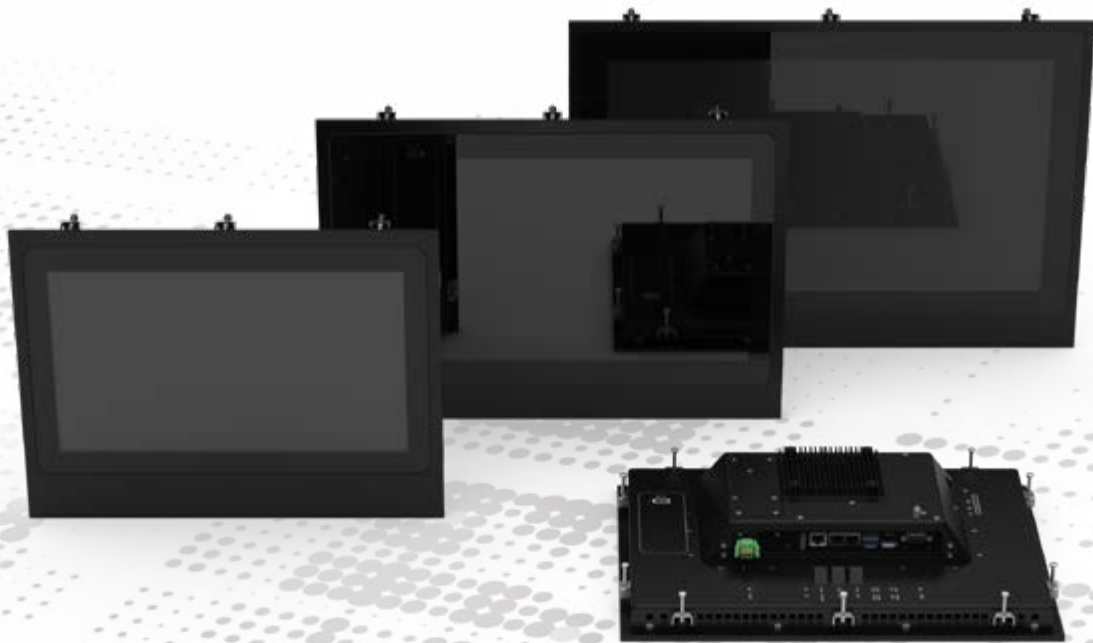


notion.S – Comfort Panel

functionally compatible HMI Comfort Panel
TP1500 / TP1900 / TP2200



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HMI

HMI stands for Human Machine Interface and refers to a dashboard that allows users to communicate with machines, computer programs or systems. From a technical point of view, the term HMI describes any screen that is used to communicate with a device.

Microsoft Windows 11 IoT Enterprise LTSC

<https://learn.microsoft.com/en-us/windows/iot/iot-enterprise/Overview>

SIMATIC WinCC Runtime Advanced

[https://support.industry.siemens.com/cs/document/109793105/simatic-wincc-v17-runtime-\(tia-portal\)?dti=0&lc=de-DE](https://support.industry.siemens.com/cs/document/109793105/simatic-wincc-v17-runtime-(tia-portal)?dti=0&lc=de-DE)

SIMATIC WinCC Unified - Web-Client

<https://support.industry.siemens.com/forum/de/de/posts/simatic-wincc-unified-optionen-web-client/286987>

Modernization, retrofitting and expansions with functionally compatible industrial HMI and operating systems from TRsystems.

Technical progress is an important driving force for an innovative, economically relevant industry such as automation technology. And where new things are to be created, old things cannot be preserved indefinitely.

At the same time, existing developments are also subject to constantly changing requirements for conformity. It is therefore understandable that even widely introduced automation components, such as industrial operating and automation systems, which are installed in large numbers in both series production plants and individually developed special-purpose machines, are discontinued by the manufacturer after many decades on the market.

However, such a discontinuation can cause fundamental problems, especially in the construction of special-purpose machines and plants:

The system works, but reliable operation also requires that spare parts are available. Does hardware and software now have to be converted to a new system?

TRsystems from Trossingen has developed a suitable solution for the discontinued HMI Comfort Panels TP1500, TP1900 and TP2200.

The "notion.S – Comfort Panel" series not only fulfills the "WinCC Runtime Advanced" HMI functionality, but also allows for an easy change to the future "WinCC Unified Client" HMI functionality with the same operating system. The long-term available and maintenance-free technology includes compatible installation dimensions, exchangeable data carriers and significantly higher performance. In addition to the TCP/IP connection, the Ethernet interfaces also offer the option of connecting to SIMATIC S5 and SIMATIC S7 controllers as accessories. The latest capacitive touchscreen haptics and device optics promise the smartphone feel that is common today.

As a medium-sized company, TRsystems is a highly competent partner for future developments, particularly for agile, innovative technology leaders.

System properties:

- _ mechanical installation and mounting compatibility
- _ wear-free, fanless and powerful CPU with a very strong GPU
- _ modern multi-touch glass touch technology
- _ bright and high-quality display technology
- _ removable storage media (2nd drive)
- _ at least 10 years of product availability in FIT / FORM / FUNCTION

Operating system / HMI / visualization:

- _ Microsoft Windows 11 IoT Enterprise LTSC
- _ free choice of HMI application

Wide range of accessories:

- _ Touchscreen hybrid protective films
- _ Anti-reflective touchscreen protective films
- _ Mounting clips for Comfort Panel
- _ removable CFAST storage media
- _ Adapter for SIMATIC S7 controllers
- _ Adapter for SIMATIC S5 controllers

Series	TRsystems Article no.	Comparable SIEMENS Article No.
notion.S - Comfort Panel TP1500 15,4 inch (1.280 x 800) 0... 50 °C	778-11991	6AV2124-0QC02-0AX1 6AV2124-0QC02-0AX2
notion.S - Comfort Panel TP1500 fullHD 15,6 inch (1.920 x 1080) -20... 50 °C	778-11988	
notion.S - Comfort Panel TP1900 18,5 inch (1.366 x 768) 0... 45 °C	778-11990	6AV2124-0UC02-0AX1
notion.S - Comfort Panel TP1900 fullHD 18,5 inch (1.920 x 1080) 0...50 °C	778-11987	
notion.S - Comfort Panel TP2200 21,5 inch (1.920 x 1.080) 0... 45 °C	778-11989	6AV2124-0XC02-0AX1

Accessories	TRsystems Article no.	Comparable SIEMENS Article No.
notion.S Mounting clips (set = 20 pcs.)	778-90247	6AV6671-8XK00-0AX3
notion.S 15,x protective film	778-90209	
notion.S 18,5 protective film	778-90208	
notion.S 21,5 protective film	778-90073	
notion.S 15,x protective film anti-glare	778-90240	
notion.S 18,5 protective film anti-glare	778-90248	
notion.S 21,5 protective film anti-glare	778-90242	
storage medium CFast 120 GByte	778-91885	
storage medium CFast 240 GByte	778-91884	
storage medium CFast 480 GByte	778-91883	
Adapter IBH Link S7++	778-91882	
Adapter IBH Link S5++	778-91881	

System configuration:

Initial start-up of the devices:

When you turn it on for the first time, you can select your desired HMI application: "SIMATIC WinCC Runtime Advanced" or "SIMATIC WinCC Unified - Web Client" or just the operating system "Microsoft Windows 11 IoT Enterprise LTSC".

Among other things, you determine during the system boot process which operating system and which HMI will be booted the next time the device is switched on. It is possible to change the HMI to one and the same "notion.S Comfort Panel" for any switch-on process without incurring any further costs.

Your benefit:

This means that the "notion.S Comfort Panel" is already prepared for your future HMI requirements! You can decide at any time whether you want to continue operating your systems with the existing HMI largely unchanged, or whether you want to switch to a successor HMI at a later date!

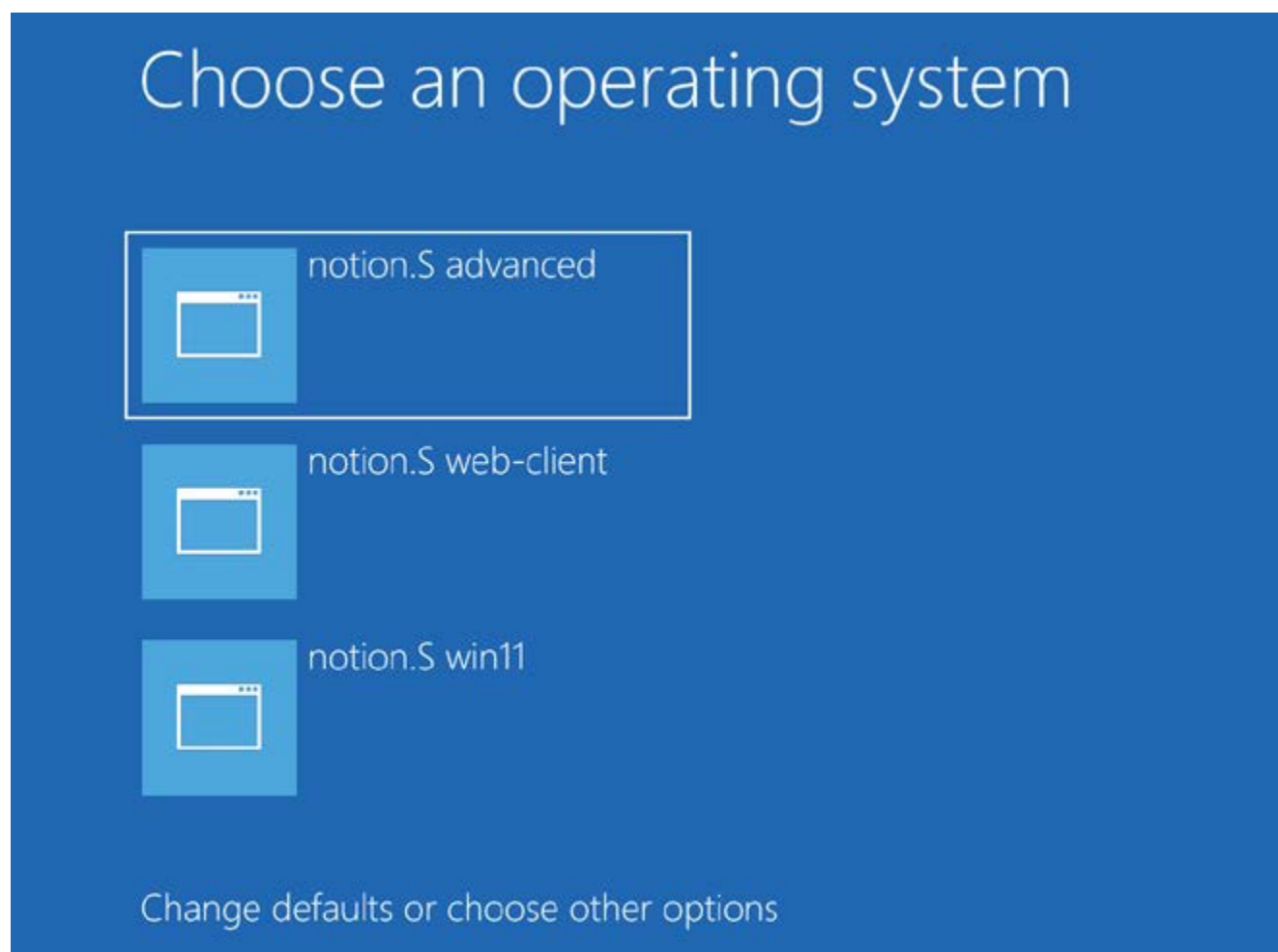


Figure 1: Selection from the system boot process

SIMATIC WinCC Runtime Advanced

The notion.S – Comfort Panels are projected with the TIA portal. Typically, you use a “PC system” as the HMI device with the necessary settings.

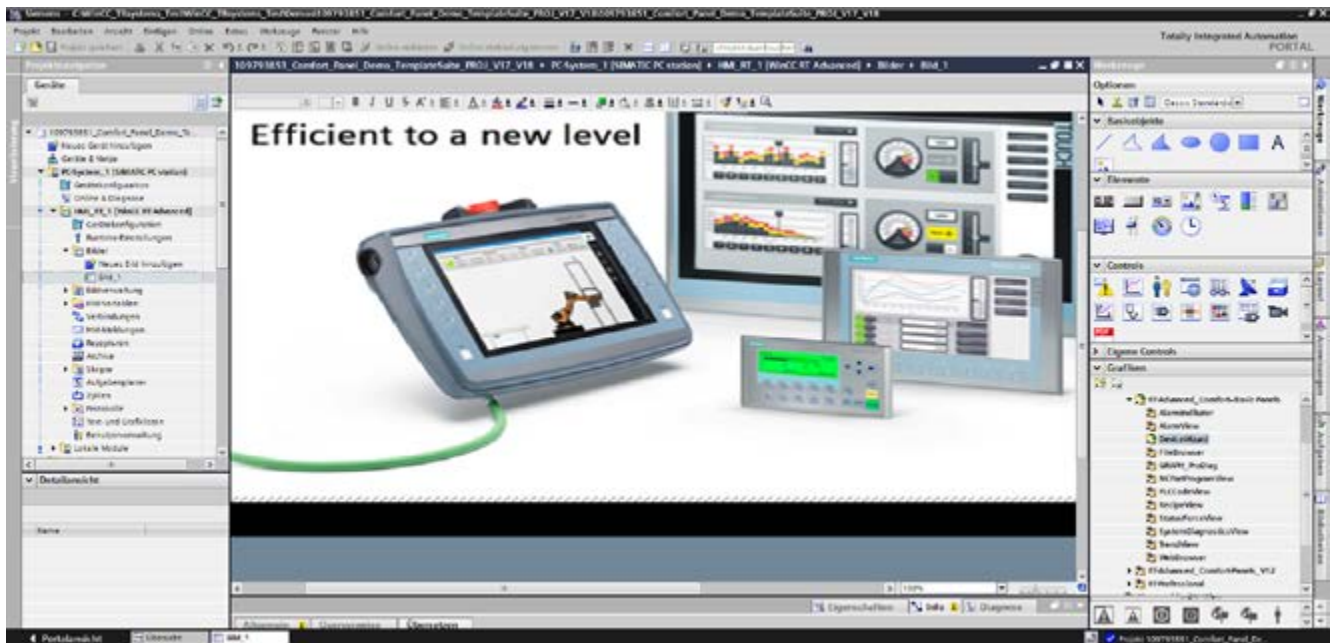


Figure 2: Configuring SIMATIC WinCC HMI Advanced in the TIA Portal

SIMATIC WinCC Unified - Web-Client

After switching on, the operating system browser of the notion.S – Comfort Panel connects directly to the website of the “WinCC- HMI Unified-Server”. Only the IP addresses for “WinCC- HMI Unified-Server” and ‘WinCC- HMI Unified-Client’ have to be customized.

TR – Innovative and successful

New requests and challenges from our customers have shaped TRsystems for over 30 years. We carry out a large part of the production steps ourselves in our flexible production facilities, develop the electronics ourselves and design the housings and mounts ourselves.

TRsystems Trossingen & Pforzheim

TRsystems bundles various business activities relating to industrial automation.

TRsystems in Trossingen has been an established manufacturer of automation technologies since 1992. Operating and computer systems of the **notion.ABC** brand are particularly suitable for the highest demands under the most difficult environmental and ambient conditions.

„Heavy-Duty“-EtherCat-I/Os and co-processor slot computers with ProfiNet or Profibus masters guarantee hard real-time for ultra-fast process automation.

Smart and universal client and PLC technologies offer cost-effective, reliable and convenient control and HMI solutions. Customized electronic developments with series production round off the product range.

As a service provider, **TRsystems Automation** takes press lines to new heights of performance.

TRsystems Pforzheim with the brand name UNIDOR stands for special know-how for pressing and punching processes and has thus been an established name in tool protection and efficiency enhancement for manufacturers and users of punching machines for many years.

We take care of it: measurement and control systems for automation technology

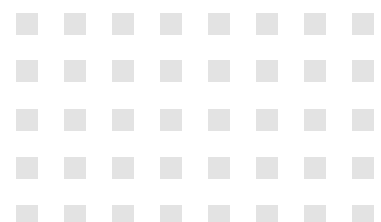
When industrial processes run smoothly and reliably, measurement and control solutions from TR play their part. When the curtain rises in a theater, for example, TR systems monitor the complex stage technology. People and machines work together safely and the audience enjoys a perfect production. Wind turbines generate energy with maximum efficiency thanks to optimally aligned rotor blades - controlled by TR solutions.

In press lines for the automotive industry, TR sensors ensure safe forming processes for car body parts. In logistics, measuring systems from TR enable the smooth transportation of goods, e.g. in conveyor systems and high racks. Control and measurement modules from TR control and monitor pumps for drinking water supplies, regulate the correct supply of pellets in wood-burning systems or help to detect faults on a punching machine in good time.

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Subject to technical and design changes.

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