



THE STRONGEST LINK.

STAHL

OPERATOR STATIONS FOR GMP AREAS AND CLEANROOMS

Thin Client or Panel PC HMI solutions

MANTA GMP

High-quality operator stations, fully EHEDG and GMP EU compliant, for safe area applications in the pharmaceutical, life science and food industries – purity class C.



ENCLOSURE DESIGN FEATURES

The design of the new MANTA GMP platform is based on many years' experience with operator stations used in hazardous and cleanroom environments.

Developed in cooperation with the Fraunhofer Institute for Manufacturing Engineering and Automation (IP), these operator stations can be used without affecting the

environmental conditions specified for cleanroom operations (according to EHEDG and GMP EU – purity class C).

..... BRUSHED STAINLESS STEEL WITH 0.6 μ SURFACE FINISH (IP66)

..... JOINT-FREE INTEGRATED DISPLAY BEHIND TOUGHENED GLASS

..... SURFACE INCLINATION > 3 %

..... ROUNDED CORNERS UNEQUAL TO 90 °

..... OPTIONAL KEYBOARD WITH POLYESTER SURFACE



..... ALL JOINTS ARE SEALED IN LINE WITH GMP GUIDELINES AND EASILY CLEANABLE



..... HYGENIC DESIGN SCREW CONNECTIONS

PERFECT SYSTEM INTEGRATION

PANEL PCS AND THIN CLIENTS FOR MODERN CONTROL SYSTEMS



MANTA GMP as Panel PC

The MANTA GMP device series provides operator stations that are specifically for use in cleanrooms. They meet the requirements of advanced process control and visualisation in hygienic environments.

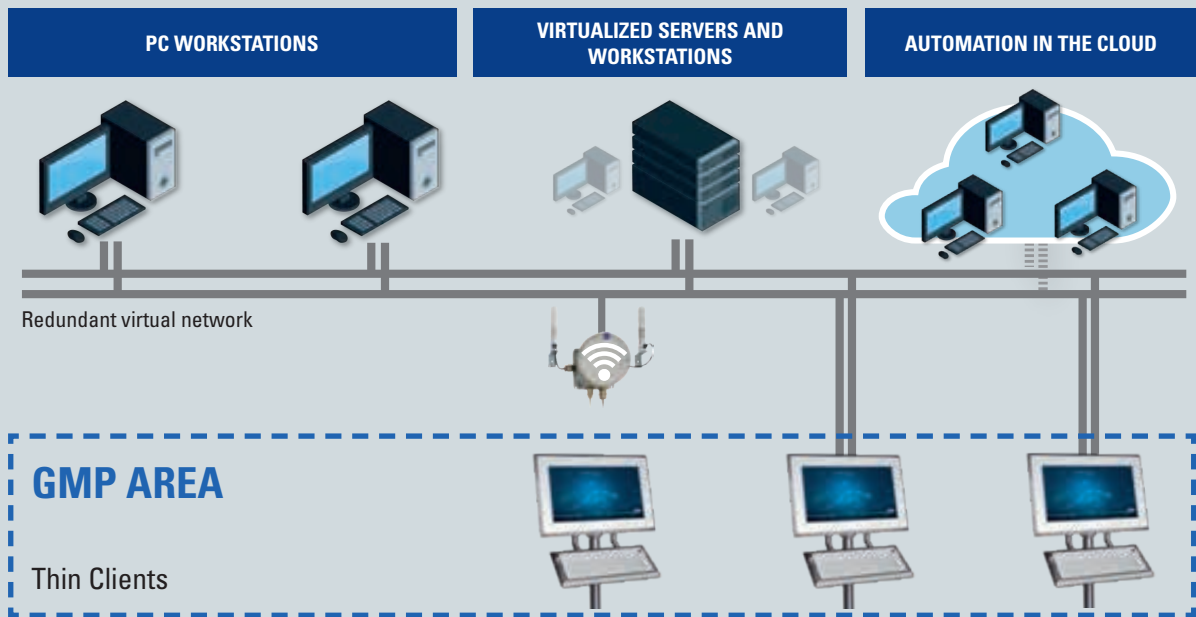
Our Thin Clients with V5 REMOTE HMI FIRMWARE are the smartest solution for modern process visualisation. They are ideal for real, virtual and cloud-based operator stations, for Industrial Internet of Things or Industry 4.0 applications.

R. STAHL also offers the latest PC technology in an industrial, modular and fanless design. All our HMI systems consist of carefully selected components to ensure the highest level of performance and reliability in stand-alone operation with open, fully configurable operating systems.

FOR USE IN SAFE AREAS (NON-EX) AND EU GMP PURITY CLASS C

TECHNOLOGY	MODEL	TECHNOLOGY	OPERATING SYSTEM / SOFTWARE
Panel PC	IT-479	<ul style="list-style-type: none"> • Capacitive glass touchscreen, with multi-touch function • 24" screen diagonal • Full HD (1920 x 1080) • Dual Ethernet 	<ul style="list-style-type: none"> • Open OS Windows 7 or Windows 10 IoT Enterprise LTSC
Thin Client	IT-579	<ul style="list-style-type: none"> • Fast dual-core processor, 4 GB RAM, 64 GB Industrial SSD • Fanless, passive ventilation 	<ul style="list-style-type: none"> • V5 Remote HMI on Win 10 IoT LTSC • Capable of PXE-booting using ThinManager or other

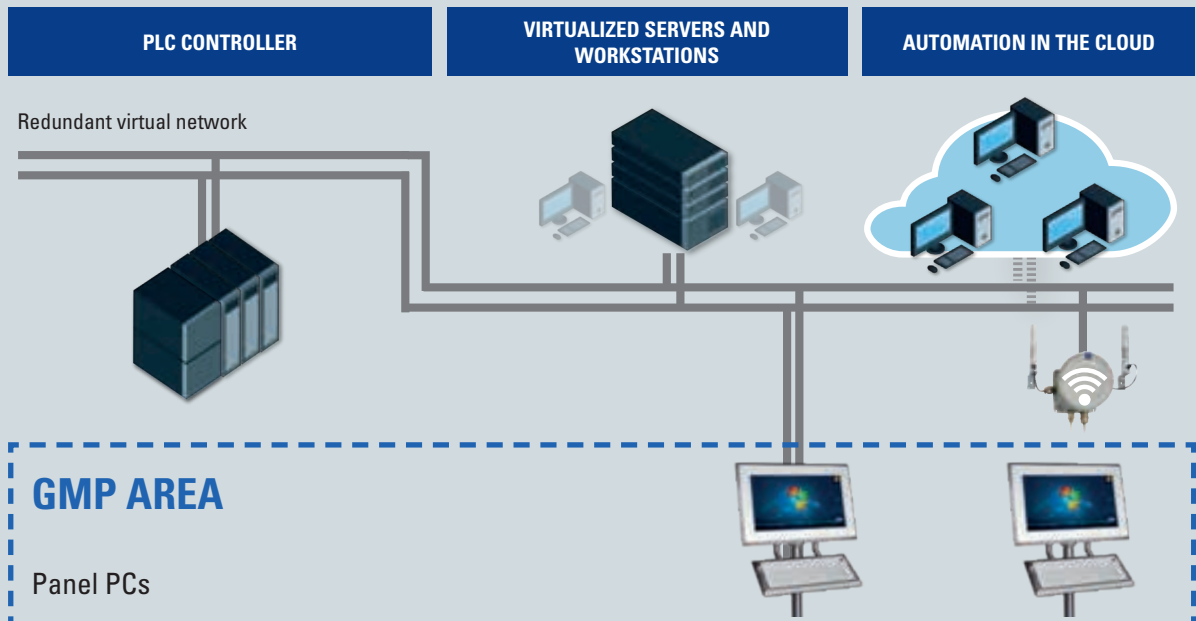
THIN CLIENT INTEGRATION



HIGHLIGHTS

- Our V5 Remote HMI Firmware boasts unparalleled performance and the most reliable Thin Client operation system among all closed systems based on Windows® 10 IoT.
- All important Thin Client protocols such as RDP and VNC
- Unique app concept with integration of third-party apps, such as browser, Citrix, Emerson DRDC etc.
- Virtual keyboard and support of multi-sessions and dual-monitor applications
- When in kiosk mode, users cannot access the Windows desktop
- Highest level of reliability through redundant Ethernet, automatic reconnection and fallback mechanisms

PANEL PC INTEGRATION



HIGHLIGHTS

- Fast dual-core processor, 4 GB RAM, 64 GB Industrial SSD
- Choice of Windows 10 IoT Enterprise LTSC, Windows® Embedded Standard 7, Windows 7 Ultimate operating systems
- “Ready-to-run” system with integrated R. STAHL Device Control Centre, virtual keyboard button, Unified Write Filter (UWF), HORM function and brightness control systems



CUSTOMER-SPECIFIC GMP OPERATOR STATIONS

In addition to a wide range of configurable operator stations, we also develop customer-specific system solutions. Mobile operator stations with speaker, dual-monitor setups and desktop solutions are some of the examples from our customer-specific range.

Simply send us your ideas for the operator station specific to your application – our product experts will check the technical feasibility and design a first-class solution for you.



Mobile station



Dual-monitor setup



RFID CARD READER AND IDM BARCODE SCANNER

RFID readers from R.STAHL allow contactless reading and forwarding of data. This HMI technology offers varied uses, e.g. for ID cards, key chains, and other media.

The safe area model variants are connected directly to the USB ports. Data is transferred with a high level of protection using Crypt encryption, or open using the ASCII protocol.



Customer-specific desktop solution



RFID card reader using Crypt or ASCII protocol



Corded/wireless IDM barcode scanner

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R. STAHL HMI Systems GmbH
Adolf-Grimme-Allee 8
50829 Köln, Germany
T +49 221 76806-1000
F +49 221 76806-4100
r-stahl.com