Operating and monitoring systems

Thin Client SERIES 500
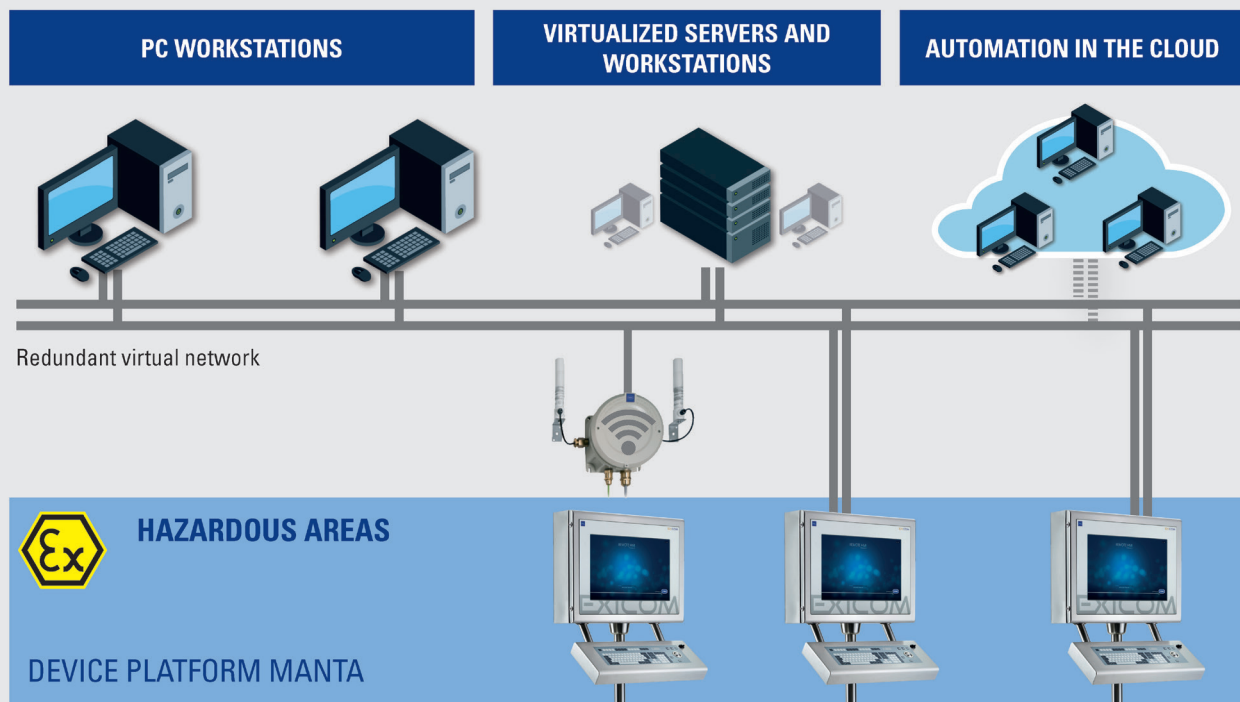## Device platform MANTA
OS IT-567-TX

STAHL

- Thin Client Operator Station, 22" display, 1680 x 1050
- Stainless steel enclosure IP66, optional acc. to GMP, for installation in safe areas
- Display of the 19" (1280 x 1024) resolution true to 5:4 format
- Optional resistive glass or foil touch screen
- Data is transmitted via Ethernet as 10/100Base-TX via CAT5 up to 100 m

MY R. STAHL IT567A

The OS IT-567 HMI series consists of Thin Client Operator Stations for safe areas. Their brilliant 22" widescreen displays with a resolution of 1680 x 1050 pixels (format 16:10), are available with or without touch screen. The stainless steel enclosures (SS304 or SS316L) are available with a front opening or in cleanroom-compliant design and with different mounting options. Country-specific keyboards, pointer instruments and RFID and barcode scanners are useful accessories making work easier and extending functionality. Data is transmitted via Ethernet as 10/100Base-TX via CAT5 up to 100 m.

THIN CLIENT INTEGRATION

| PC WORKSTATIONS | VIRTUALIZED SERVERS AND WORKSTATIONS | AUTOMATION IN THE CLOUD |

Redundant virtual network

HAZARDOUS AREAS

DEVICE PLATFORM MANTA

2025-04-16
V 0.94 EN

R. STAHL HMI Systems GmbH | Adolf-Grimme-Allee 8 | 50829 KÖLN
Tel. +49 221 768 06 1200 | +49 221 768 06 4200 | Email: sales.dehm@r-stahl.com | r-stahl.com

1/4

Operating and monitoring systems
Thin Client SERIES 500
Device platform MANTA
OS IT-567-TX

Technical Data

General

Series	Operator Station OS IT-567 (discontinued)
Product description	22" Thin Client
HMI type	Operator Station
Technology	Remote HMI Thin Client
WebCode	IT567A

Explosion Protection

Application range (zones)	Non-Ex

Electrical Data

Rated operational voltage DC	24 V
Voltage range DC	20 – 30 V
Rated operational voltage AC	230 V
Voltage range AC	100 – 240 V
Power consumption DC	3 A
Power consumption AC 1	1 A
Protection fuse DC	5 AT
Protection fuse AC	5 AT
Rated operational power	typ. 50 W / 100 W at O30 / max. 150 W (typ. 170 BTU / 341 BTU at O30 / max. 510 BTU)
Processor type	ATOM E3845
Processor details	Intel Bay Trail (BT); 1.91 GHz; quad core
RAM	4 GB
Data memory	64 GB
Graphics controller	integrated Intel Gen. 7 HD Graphics
Memory technology	SSD solid state flash drive M.2
Operating system	Windows 10 IoT Enterprise
Language support	via operating system
Image	Remote Firmware
Ethernet / Data	10/100Base-TX
Data cable	CAT5 installation cable AWG23
Data cable length	max. 100 m
Interface medium	CAT5 data transmission
Frequency range	50 – 60 Hz
Interface USB	2 x USB (Hub) 1 x USB (Root) 2 x USB (Hub) (keyboard, pointing device)
Interface serial	1 x RS-232
Interface audio	1 x Audio Line out
WLAN	optional via USB
Connections	via standard plug
Plug version USB	USB-A connector
Max. input voltage U_m	250 VAC
Real-time clock	Yes
Real-time clock data buffer	Lithium battery and capacitor buffered, maintenance-free
Battery buffered	> 5 years
Capacitor buffered	at least 4 days

Display

Display version	TFT Colour display
Display version 2	16.7 million colours
Display size inch	22
Display size centimetres	56
Display resolution	WSXGA+
Total pixels	1680 x 1050
Display dimensions	16:10
Display brightness	250 cd/m²
Display contrast	1000:1
Display viewing angle horizontal	178° at CR ≥5
Display viewing angle vertical	170° at CR ≥5
Display	Glass
Touchscreen	optional, resistive
Touchscreen technology	5-wire glass or membrane touch
Touchscreen activation	Foil touch: low activation pressure (0.1 up to max. 1 N) Glass touch: medium activation pressure (1.8 up to max. 2.5 N)
Touchscreen input method	Finger, gloved finger or stylus
Touchscreen durability	Foil touch: Polyester foil is easily scratched, with high pressure force the spacer dots could be damaged. Glass touch: Quite good, but with high pressure force the spacer dots could be damaged.
Touch screen scratch hardness MoHS	Foil touch: - Glass touch: >5
Touchscreen scratch hardness pencil test ISO15184	Foil touch: 3H Glass touch: 9H
Touchscreen transmissivity / optic	Foil touch: small milky effect due to the foil Glass touch: very good
Touchscreen surface contaminants	unaffected
Touchscreen abrasive resistance	36 million times with a silicone rubber of R8 finger, hitting rate 250 g at 2 times per second
Backlight	LED Technology
Backlight service life	50 000 h at +20 °C
Front plate (display)	Aluminium

Ambient Conditions

Ambient temperature operation	-20 °C … +55 °C
Ambient temperature operation 1	-30 °C … +55 °C with heater version O30
Storage temperature	-30 °C … +70 °C
Cold start temperature	-10 °C
Temperature note 1	The O30 version is only available for the AC version devices !
Temperature note 2	Operating temperature +55 °C for a maximum of 5 h, for constant operation (24/7) +50 °C.
Temperature note 3	Cold start temperature: If the HMI device is switched on at a temperature below -10 °C the display will need a certain amount of time to warm up until everything is clearly visible. Depending on how low the temperature is, this process may last up to 3 hours.
Temperature note general	The temperature details apply to a standard device combination with display, keyboard and enclosure. Any additional built-in or added components may have an impact on / change these.
Heat dissipation	about 40 % via the front plate and 60 % via the enclosure
Relative humidity	10 to 90 % at +40 °C, non-condensing

2025-04-16
V 0.94 EN

R. STAHL HMI Systems GmbH | Adolf-Grimme-Allee 8 | 50829 KÖLN
Tel. +49 221 768 06 1200 | +49 221 768 06 4200 | Email: sales.dehm@r-stahl.com | r-stahl.com

3/4

STAHL

Mechanical Data

Dimensions (WxHxD)	740 mm x 872 mm x 400 mm
Material front	Aluminium / stainless steel
Material back	Stainless steel
Ingress protection	IP66
Weight	42.5 kg
Breather	optional
Mechanical data note	The mechanical data apply to an FR enclosure with display and keyboard. Other enclosure types as well as any additional built-in or added components may have an impact on / change these.

Mounting / Installation

Enclosure type	Stainless steel enclosure (FR) optional GMP / clean room (CFR)
Mounting option	Wall, elbow, stand

Components

Keyboard	optional, 107 keys with trackball / joystick / mouse / touchpad

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.