# 21.5" HMI Panel PC for Cleanroom – in wall

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## Highlights

HMI PC for in-wall mounting in cleanroom. Save valuable space and service cost without breaking the cleanroom sealing.

Slim version 48 mm for thin cleanroom wall. Very easy to clean and disinfect due to the flat, smooth stainless steel front. Withstands all known cleaning agents and disinfectants.

Cutting-edge touch technology works with gloves improving workflow and productivity. A typical use case would be three layers of gloves, one layer of cotton gloves and two layers of nitrile/latex or silicone gloves. It is also possible to combine with thicker safety gloves. The multi touch display provides auto calibration for seamless operation.

Blue Line's HMIs are designed for 24/7 operation, with a low power consumption, passive cooling and without moving parts for maximum operational reliability.

Available as monitor or with integrated PC. Mounting is possible in walls, machines and control cabinets. Blue Line's modular design makes it possible to configure fully to specific requirements to functionality, finish and environment.

Wall mounted keyboard is optional.

Blue Line's modular design makes it possible to configure to specific needs in functionality, finish and environment. Get free advice from our experts and let us set up a Teams meeting for an online demo and Q&A. Benefit from our experience and knowledge based on numerous installations in biotech and pharmaceutical sites around the world.

• Life Science / GMP / FDA environment
• Cleanroom in-wall integration / panel mount
• Slim version available 48 mm depth
• Stainless steel AISI 304 / 316L
• Easy to clean & disinfect
• Withstands all known detergents: iso-propyl alcohol, non-deionized water, VHP, Spor-Klenz™, Klercide, Actisan, LpH®, Vesphene® and more
• Meets all cleanroom, GMP and FDA requirements
• 21.5" PCAP multi touch display
• Can be operated with up to 3 layers of cleanroom gloves
• Full HD resolution 1920 x 1080
• IP65 dust and waterproof
• Integrated PC / client
• Fanless operation
• Optional Nymi ready - integrated reader
• ThinManager support
• Windows 7 / 8 / 10 / 11
• Wide range of options: USB, LAN, serial, reset
• Long product life cycle
• Customisation according to your requirements





## BLUE LINE
### IT for Demanding Environments

• has more than 30 years experience
• delivers reliable IT solutions for demanding environments
• builds compact and high performance solutions
• focuses on long duration, 24/7-operation, and ruggedness
• is ISO 9001:2015-certified
• is known for providing the best assistance and services in all phases.

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## Specifications

**Model Type**

HMI Panel PC for in-wall mounting

**Construction**

Fully sealed enclosure in stainless steel AISI 304

Optional acid resistant stainless steel AISI 316L

**Cooling**

Fanless

**Ingress Protection**

IP65

**Environment**

| | |
|---|---|
| Operating temperature | 0°C to +50°C |
| Storage temperature | -30°C to +70°C |
| Humidity | 10 to 90% @ 40°C, non-condensing |

**Certification**

CE / FCC CLASS A

**Display**

| | | |
|---|---|---|
| 21.5" | 1920 x 1080, 16:9, FHD | LCD panel |

**Touch**

Projected capacitive multi touch (supports gloves)

**Brightness**

300 nits

**Viewing Angle**

178/178

**Processor**

Intel Atom Bay Trail E3845 4C/4T, 1.9GHz

Intel Celeron J6412 4C/4T, 2.0GHz (Turbo 2.6GHz)

**Chipset**

Integrated SoC

**RAM**

| | |
|---|---|
| Atom E3845 | Onboard 4GB DDR3L 1600MHz (option for 8GB) |
| Celeron J6412 | 1 x DDR4 SO-DIMM socket, max 32GB 3200MHz |

**Storage**

1 x 2.5" SSD

**Front Input / Output**

| | |
|---|---|
| Option for: | USB 2.0 ports |
| | COM ports |
| | Reset |
| | All connectors come with waterproof cap |
| | Nymi ready - integrated reader |

**Rear Input / Output**

1 x Gbe LAN (2 x LAN optional)

1 to 4 x USB 2.0 ports

COM ports optional

1 x Power input

All connectors come with waterproof cap

**Expansion**

1 x MiniPCIe slot (internal)

**Operating System**

Windows 7 / 8 / 10 / 11*

Windows Embedded 7 / 8

Windows 10 / 11 IoT Enterprise

Linux

*(Intel Atom E3845 CPU do not support Windows 11)

**Thin Client**

ThinManager, Microsoft Remote Desktop (RPD), NoTouch OS, VNC, Citrix and others

**Power Supply**

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+90V to +264v AC-input

Option +10V to 36V DC-input

**Power Consumption**

Max 40W

**Mounting**

In-wall / panel mount

**Dimension and Weight**

| | | |
|---|---|---|
| 21.5" | H 411 x W 588 x D 79mm (depth 75mm from front wall) | 13kg |
| Slim version | H 406 x W 557 x D 52mm (depth 48mm from front wall) | 10kg |

**Warranty and After Sales Support**

Standard 1 year (option for 3 years)

**Ordering Information**

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