

# HMI Panel PC with Keyboard for Cleanroom

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**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.

# HMI Panel PC with Keyboard for Cleanroom

## Highlights

Elegant stainless steel HMI available with either touch or membrane keyboard for cleanroom operation. Very easy to clean and disinfect due to smooth sides, rounded edges and a flat, smooth front. Withstands all known cleaning agents and disinfectants.

Both the display and the keyboard are based on cutting-edge technology that works with gloves. 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.

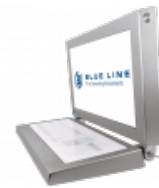
If you choose touch keyboard, the sensitivity is adjustable to suit the number of layers of gloves. This unique technology is chosen by most of the leading pharmaceutical manufacturers, because traditional keyboards break down and cannot be cleaned completely thus compromising regulatory requirements.

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

Available as monitor or with integrated PC, thin client or KVM. Mounting is possible on wall, machine as well with a large range of supporting arms. Blue Line's modular design makes it possible to configure fully to specific requirements to functionality, finish and environment.

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
- Stainless steel AISI 304 or 316L
- 21.5" and 24" PCAP multi touch display
- Adjustable hinged touch or membrane keyboard
- Easy to clean & disinfect
- Withstands all known detergents: iso-propyl alcohol, non-deionized water, VHP, Spor-Klenz™, Klercide, Actisan, LpH®, Vesphene® and more
- Meets cleanroom & GMP requirements
- Operable 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
- Flexible mounting VESA / wall / pipe / swivel arm / gas arm
- Long product life cycle
- Customisation according to your requirements



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# HMI Panel PC with Keyboard for Cleanroom

## Specifications

### Model Type

HMI stainless steel Panel PC with keyboard

### 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
24"	1920 x 1080, 16:9, FHD	LCD panel

### Touch

Projected capacitive multi touch (supports gloves)

### Brightness

300 nits

### Viewing Angle

178/178

### Keyboard

Touch keyboard

103 keys

Flat glass capacitive multi touch surface (supports gloves)

Capacitive touchpad

Numeric keypad

DIN 42115 chemical resistance

Various language layouts available

Membrane keyboard

105 keys

Robust polyester front foil with key embossment

Capacitive touchpad

Chemical, abrasion and scratch resistant frontsheet

Various language layouts available

### Processor

Intel Atom E3845 4C/4T, 1.9GHz

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

Intel Core i5-8365UE 4C/8T, 1.6GHz (Turbo 4.1GHz)

### Chipset

Integrated SoC

### RAM

Atom E3845	Onboard 4GB DDR3L 1600MHz (option for 8GB)
Celeron J6412	1 x DDR4 SO-DIMM socket, max 32GB 3200MHz
Core i5-8365UE	1 x DDR4 SO-DIMM socket, max 32GB 2400MHz

### Storage

1 x 2.5" SSD

### Front Input / Output

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

### Rear Input / Output



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1 x Gbe LAN (2 x LAN optional)  
1 to 4 x USB ports  
COM ports optional  
1 x Power input  
All connectors come with waterproof cap

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## Expansion

WIFI/Bluetooth (optional)

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## Operating System

Windows 10 / 11\*  
Windows 10 / 11\* IoT Enterprise  
Linux  
\*(Intel Atom E3845 CPU do not support Windows 11)

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## Thin Client

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

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## Power Supply

+90V to +264V AC-input  
Option for +10V to +36V DC-input

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## Power Consumption

Max 40W

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## Mounting

VESA 100  
Stainless steel supporting arm  
Stainless steel tube mount  
Stainless steel desktop stand  
Other options available according to requirements

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## Dimension and Weight

21.5"	H 364 x W 573 x D 323mm	18.2kg
24"	H 458 x W 590 x D 325	

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## Accessories Optional

Mounting plate for handheld barcode scanner  
Stainless steel keyboard shelf

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## Warranty and After Sales Support

Standard 1 year (option for 3 years)



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