

IT Workstations for Pharma & Life Science



Serving World Leading Manufacturers



BLUE LINE
IT for Demanding Environments

How can Blue Line support you?

A partnership with Blue Line equals



Retrofit or renew current IT installation and gain higher productivity and user satisfaction. Benefit from our experience and knowledge based on numerous installations in cleanrooms and pharmaceutical manufacturing sites around the world.

Avoid worries about inspections and regulatory requirements with unique technologies keeping all IT hardware completely clean whether it is fixed mounted or mobile solutions.

Meet all functional requirements and is in compliance with current infrastructure choosing Blue Line's modular and configurable platforms.

Modernise and optimise the workflow as well as safety and comfort. Achieve a significant return on investment and a competitive solution with Blue Line's quality products.

COSTUMER STATEMENTS

"This simplified our installation and reduced our costs"

"Blue Line had the right hardware, which only had to be customised according to what we wanted. This meant the right IT solution at the right price."

"Blue Line were involved in the project from the start and they were available for support throughout the implementation process. Blue Line presented the optimal hardware to us, which met our requirements 100%."

"I am truly impressed. We have met a company that is ready to embrace changes, which assures product quality."

"The new Blue Line HMI with a hinged keyboard is a state-of the-art IT hardware solution with a modern design, which looks very impressive."



Reliable Solutions for Pharma & Life Science

Blue Line provides reliable IT hardware based on your environment and needs. Blue Line's product line is compliant with all regulatory requirements in GMP, FDA and ISO 14644, allowing you to optimise workflow, traceability and documentation in all phases of production and packing.

WE UNDERSTAND YOUR ENVIRONMENT

Blue Line has been a global supplier of highly reliable IT solutions for demanding environments for more than 35 years. Our DNA is customer focus in all phases of the co-operation. In surveys, the majority of our clients emphasised Blue Line's ability to listen and to create solutions in close co-operation with our dedicated team.

HIGHER PRODUCTIVITY AND USER SATISFACTION

Benefit from a product range designed to avoid the typical challenges in biotech and pharmaceutical manufacturing. Renew or retrofit current IT installation and gain higher productivity and user satisfaction. Benefit from experience and knowledge based on numerous installations worldwide.

QUALITY AND RELIABILITY

All products are designed for 24/7 uptime, with a low power consumption, passive cooling and without moving parts for maximum operational reliability. All company procedures are subject to strict quality standards in the ISO 9001:2015 certification. As a company we also hold an AAA credit rating.

Integrate large size HMI in-wall solutions. Ideal for planning and sharing of information



Meets regulatory requirements

Benefit from a product range designed to avoid the typical challenges in life science and pharmaceutical manufacturing. Avoid worries about inspections and regulatory requirements with innovative technologies keeping all products completely clean and sterile.

COMPLIANT WITH GMP – FDA – ISO 14644

Take advantage of our extensive experience with IT for cleanrooms. Blue Line's products comply with all regulatory requirements for EU GMP classification for cleanroom A-B-C-D, as well as FDA and ISO 14644.

EASY TO CLEAN

All products are consciously designed with smooth surfaces, slanted sides and rounded edges meaning that products are easy to clean.

WITHSTANDS ALL KNOWN CLEANING DETERGENTS

Blue Line's cleanroom products withstand all known cleaning detergents as iso-propyl alcohol, non-deionized water, VHP, Spor-Klenz™, Klercide, Actisan, LpH®, Vesphene® and many more.

Meets all needed regulatory requirements as GMP, FDA and ISO 14644



Slanted, rounded edges and smooth surfaces make it easy to clean



Withstands all known cleaning detergents



Easy to use

Blue Line's cleanroom HMI workstations are very easy to use and prevent compromising of regulations. Gain higher productivity and user satisfaction with the cutting edge, auto-calibrated touch technology that works with various layers of gloves. This technology is chosen by most of the pharmaceutical manufacturers.

OPERABLE WITH GLOVES

Blue Line's cleanroom workstations support operation with gloves. A typical use case would be operation with two or three layers of gloves. The innovative touch display includes auto calibration for seamless operation and avoids interruptions in the production process.

HYGIENIC KEYBOARD

Standard keyboards are not suitable for use in cleanrooms, as dirt accumulates under the keys and trackball. Further, the design and materials of most keyboards do not permit regular cleaning with aggressive agents. The surface of Blue Line's hygienic keyboard is completely flat and can be effectively disinfected with no compromises.

Blue Line's touch keyboards are without moving parts ensuring long durability and long term reliability. If you prefer keyboard with keystroke, all Blue Line HMIs are also available with membrane keyboard.

Auto-calibrated touch technology operable with various layers of gloves



Completely flat hygienic touch keyboard. Easy cleanable with no compromises



Modular Design - Built to Your Needs

Blue Line's modular design makes it possible to configure the majority of HMI Workstations and Mobile Operator Stations to specific needs in functionality, finish and environment.

Choose between different variants on the basis of casing, size, input, communication, and mounting. Discover the

possibilities below. If you do not find a combination that fits your requirements, Blue Line has a strong capability to

customise products according to your specifications.



Easy to implement

Blue Line provides a wide range of flexible mounting solutions regardless of whether the mounting is to be done in the wall, on the wall, floor, ceiling, desktop or a machine. Installations can be fixed, rotating, tiltable or even mobile. Separate or attached

keyboards can be a part of the system.

The mounting solutions are designed to ensure smooth transitions between the individual components making cleaning easy. Made entirely of stainless steel, all mounting solutions

are ingress proof withstanding tough cleaning procedures. Based on your specific needs, we are pleased to prepare a proposal that ensures the best functionality, ergonomics and occupies as little space as possible.

In-Wall mounting saves valuable space



Principle of mounting in the wall



HMI with integrated keyboard - table/pedestal mounting

Mobile Operator Station



Add a stainless steel sterile keyboard mounted directly on the wall



Desktop workstation



Wall or machine mounting with optional tilt and swivel



Wall mounting with tilt



Ceiling mounting with optional tilt and swivel



Pedestal or table mounting with optional tilt and swivel



Ceiling or pedestal mounting for dual HMIs horizontal



Ceiling or pedestal mounting for dual HMIs vertical





Mobility increases productivity

Do you find that fixed mounted HMI monitors and PCs can be inflexible and cost-intensive? Then take a closer look at Blue Line's Mobile Operator Stations and achieve greater productivity. Reduce both installation and manufacturing costs and obtain a flexible position for shifts in production types and batches.

MEETS GMP, FDA AND ISO 14644 REQUIREMENTS

Mobile Operator Station T3000 is compliant with all regulatory requirements. Designed to meet the EU CGMP and ISO 14644 classifications for cleanroom. Withstands all known cleaning detergents.

WORK MOBILE 24/7

Blue Line's mobile operator stations comes with hygienic casters and can be moved around where needed, always ready for use when needed. Power by either AC or integrated batteries. Benefit from a battery capacity to work unplugged for an entire shift.

When capacity decreases, then simply hot swap the batteries without turning off the system and achieve seamless continuous production. Batteries charge via the integrated charger or external battery charger and secures maximum mobility.

BEST-IN-CLASS ERGONOMICS

Ergonomics can be an issue in cleanrooms and often systems are fixed in height and angle that does not fit all users. Obtain high user satisfaction and greater productivity from Blue Line's mobile operator stations due to the stepless electric height adjustment

via actuator. Both seated and standing operation are supported. On some models, you can also swivel and tilt the display.

EQUIP WITH HMI, MONITOR, PC, THIN CLIENT, SCANNER, KEYBOARD/MOUSE ETC.

Configure with the IT needed for your production setup. Integrate WIFI 6 and Bluetooth 5.1 for optimal connectivity. Blue Line's modular design makes it possible to configure fully to specific requirements.

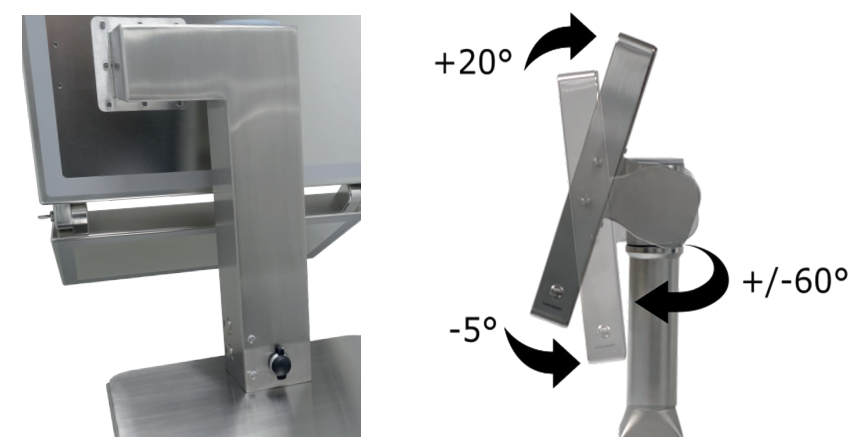
Mobile workstation configured to your needs. Best-in-class ergonomics. Height adjustable.



Equip with HMI/monitors with or without keyboard



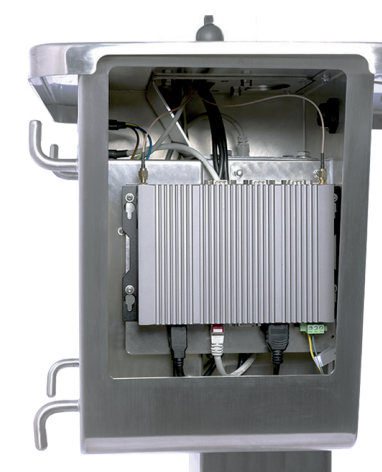
Standard mounting and option for tube mount with swivel and tilt



Work unplugged for an entire shift and hot swap the batteries for continuous mobility



Option for integrated client



Stainless steel table



Cleanroom Tablet

The lightest and thinnest cleanroom tablet ever on the market. Easy-to-clean design with smooth unbroken surfaces. Detergent resistant and operable with gloves.

EVERYBODY GOES MOBILE

Digitization of work processes in cleanroom is one of the strongest trends in the market. Mobile IT solutions mean both lower acquisition and installation costs, paving the way for the most flexible working methods.

Blue Line's CleanTablet supports dedicated applications and manufacturing execution systems (MES). Perfect for standard operating procedures, quality manuals and for conducting training and instruction sessions. The tablet is also used for quality assurance through e.g. sampling and cell counting. In addition to this the Blue Line CleanTablet is ideal for documenting issues in production processes with the built-in camera and video. A new trend is the use of virtual reality (VR).

CLEANROOM TABLETS FOR DEMANDING ENVIRONMENTS

However, the use of mobile computers and cleanroom tablets in life science, biotech and pharmaceutical environments introduces several challenges.

Conventional tablets are not designed for daily cleaning with aggressive media, and that may affect both functionality and eventually invalidate the warranty.

Blue Line has been in close dialogue with industry-leading customers to understand these challenges and develop solutions that fit these requirements. Based on Blue Line's industrial knowhow and the feedback from our customers, we offer solutions to the market that take care of the typical challenges.

THE BEST USER EXPERIENCE IN THE MARKET

Blue Line's cleanroom tablets are made of high-tech material suitable for biotech and pharmaceutical environments where cleanability and resistance to detergents are essential. Best-in-class ergonomics with low weight, up to 60% lighter and 60% thinner than competing tablets. The high resolution multi touch displays are operable with up to 3 layers of cleanroom gloves or touch pen for higher precision.

Blue Line offers and continuously expands its CleanTablet ecosystem to optimize digitization and still ensure perfect ergonomics and cleanability in all cleanroom grades.

Achieve greater flexibility and productivity with mobile computers from Blue Line. your mobile IT strategy and meets requirements from GMP and FDA.

Withstands all known detergents. Easy-to-clean design with smooth unbroken surfaces compatible with up to 3 layers of nitrile and neoprene cleanroom gloves



Available in 10.5" and 13"



Compact dimensions and low weight, up to 60% lighter and 60% thinner



Designed to improve daily working procedures of operators by providing unsurpassed ergonomics



Designed to comply with the EU GMP classification for cleanroom A-B-C-D



Add a CleanHub



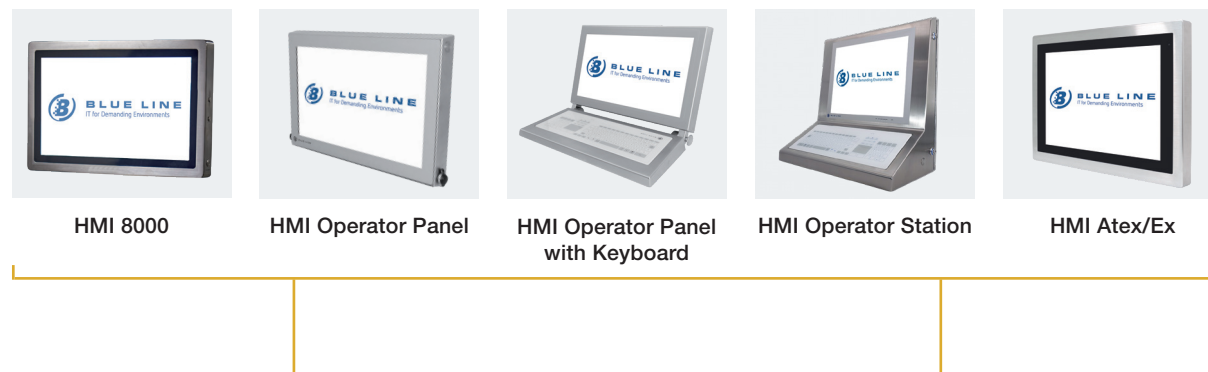
Charger for 4 tablets



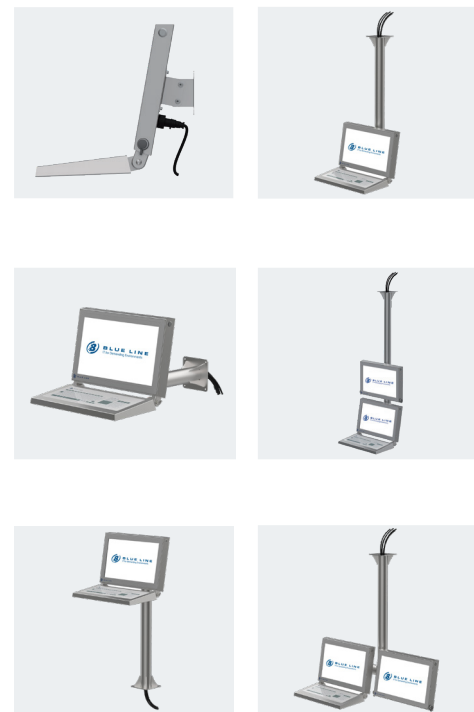
Product overview

HMIs, Mobile Operator Stations and Tablets for cleanroom and hygienic production. Blue Line's modular design makes it possible to configure to specific needs in functionality, finish and environment.

HMI SYSTEMS FOR FIXED MOUNTING



MOUNTING SYSTEMS



Examples of mounting systems
Further options available

DESKTOP WORKSTATION

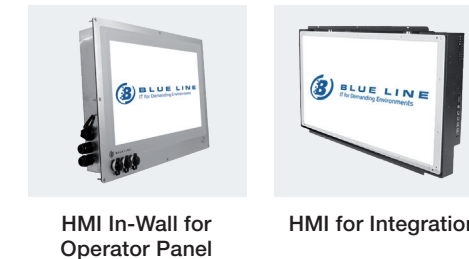


Examples of desktop systems
Further options available

MOBILE OPERATOR STATIONS



HMI SYSTEMS FOR IN-WALL MOUNTING AND INTEGRATION



Examples of integration
Further options available

CLEANROOM TABLETS



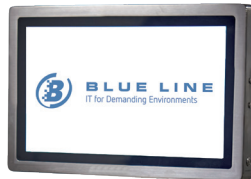


CleanTablet



Examples of ATEX/Ex tablets
Further options available

Product specifications


HMI

PRODUCT	HMI - 8000 SERIES		HMI OPERATOR PANEL	HMI WITH KEYBOARD - OPERATOR PANEL
				
Model				
Type	Monitor, Thin Client, Panel PC			
Construction	Fully sealed enclosure in stainless steel AISI 304 or 316L			
Cooling	Fanless			
Ingress Protection	IP66		IP65	
Display	15.6": 1920 x 1080, 16:9, FHD 21.5": 1920 x 1080, 16:9, FHD 24": 1920 x 1080, 16:9, FHD		21.5": 1920 x 1080, 16:9, FHD 24": 1920 x 1080, 16:9, FHD	
Touch Type	Projected capacitive multi touch (support gloves) No touch (optional) Optical bonding (optional)		Projected capacitive multi touch (support gloves)	
Monitor				
I/O	1 x 3pin DC power, 1 x USB 2.0, 1 x HDMI, 1 x M4 ground screw		1 x Power input, 1 to 4 x USB 2.0, COM ports optional, 1 x HDMI / optional 1 x VGA	
Thin Client				
ThinManager, Microsoft Remote Desktop (RPD), NoTouch OS, VNC, Citrix, VMware and others				
Panel PC				
Processor and RAM	Intel Celeron N2930: 1.83GHz, 4/8GB Intel Core i3-6100U: 2.3GHz, 4 to 16GB Intel Core i5-6300U: 2.4GHz, 4 to 16GB		Intel Atom Bay Trail E3845 quad core: 1.9GHz, 4/8GB Intel Core i5-7300U: 2.6GHz, 4 to 16GB	
I/O	1 x DC power, 1 x Gbe LAN, 2 x USB 2.0		1 x Power input, 1 x Gbe LAN (2 x LAN optional), 1 to 4 x USB ports, COM ports optional	
Expansion	WIFI/Bluetooth (optional)			
Operating System	Windows 7 / 8 / 10 Windows Embedded Standard 7 / 8 Windows 10 IoT Enterprise Linux			
Storage	1 x 2.5" SSD			
Keyboard			Touch keyboard or Membrane keyboard	
Power Supply	+9V to +36V DC-input		+90 to + 264V AC-input Option +10V to +36V DC-input	
Power Consumption	Max 42W		Max 40W	
Dimension and Weight	15.6": H 290 x W 440 x D 55mm, app. 7.2kg 21.5": H 362 x W 571 x D 55mm, app. 10kg 24": H 423 x W 656 x D 53mm, app. 12.6kg		21.5": H 358 x W 567 x D 50mm, app.12.3kg 24": H 406 x W 639 x D 52mm	21.5": H 364 x W 573 x D 323mm, app. 18.2kg 24": H 458 x W 590 x D 325
Certification	CE / FCC CLASS A		CE / FCC CLASS A	
Mounting	VESA 100 (I/O ports in center) Stainless steel supporting arm Stainless steel tube mount Stainless steel desktop stand Stainless steel yoke mount		VESA 100 (I/O ports in center) Stainless steel supporting arm Stainless steel tube mount Stainless steel desktop stand	
Warranty and After Sales Support	Standard 1 year (option for 3 years)			



HMI IN-WALL

PRODUCT		HMI OPERATOR PANEL IN-WALL		HMI FOR INTEGRATION	
					
Model					
Type		Monitor, Thin Client, Panel PC		Monitor	
Construction		Fully sealed enclosure in stainless steel AISI 304 or 316L		Glass front - metal rear housing	
Cooling		Fanless		Fanless from 5.7" to 27" Active fan from 32" to 85"	
Ingress Protection		IP65		Front IP65 with sealing	
Display		21.5": 1920 x 1080, 16:9, FHD		Sizes ranging from 5.7" to 85" with resolution from 640 x 480 and up to 3840 x 2160	
Touch Type		Projected capacitive multi touch (support gloves)		Projected capacitive multi touch (support gloves) No touch from 5.7" up to 24" (optional) Resistive touch (optional) Optical bonding (optional)	
Monitor					
I/O		1 x HDMI / optional 1 x VGA 1 to 4 x USB 2.0 ports COM ports optional 1 x power input		1 x VGA Optional display port / DVI / HDMI 1 x USB 2.0 touch OSD control panel 1 x power input	
Thin Client					
		ThinManager, Microsoft Remote Desktop (RPD), NoTouch OS, VNC, Citrix, VMware and others			
Panel PC					
Processor and RAM		Intel Atom Bay Trail E3845 quad core, 1.9GHz, 4/8GB			
I/O		1 x Gbe LAN (2 x LAN optional) 1 to 4 x USB 2.0 ports, COM ports optional 1 x Power input			
Expansion		1 x MiniPCle slot (internal)			
Operating System		Windows 7 / 8 / 10 Windows Embedded Standard 7 / 8 Windows 10 IoT Enterprise Linux			
Storage		1 x 2.5" SSD			
Power Supply		+90 to + 264V AC-input Option +10V to +36V DC-input		AC input or DC input	
Power Consumption		Max 40W			
Dimension and Weight		21.5": H 411 x W 588 x D 79mm, app. 13kg Slim version: H 406 x W 557 x D 52mm, app. 10kg			
Certification		CE / FCC CLASS A		CE	
Mounting		In-wall / panel mount		In-wall / rear mount	
Warranty and After Sales Support		Standard 1 year (option for 3 years)			

HMI OPERATOR STATION

PRODUCT		19" OPERATOR STATION
		
Model		
Type	Monitor, Thin Client, Panel PC	
Construction	Fully sealed enclosure in stainless steel AISI 304 or 316L	
Cooling	Fanless	
Ingress Protection	IP65	
Display	19": 1280 x 1024, 5:4, SXGA	
Touch Type	Projected capacitive multi touch (support gloves)	
Monitor		
I/O	1 x HDMI / optional 1 x VGA 1 to 4 x USB 2.0 ports 1 x Power input COM ports optional	
Thin Client		
		ThinManager, Microsoft Remote Desktop (RPD), NoTouch OS, VNC, Citrix, VMware and others
Panel PC		
Processor and RAM	Intel Atom Bay Trail E3845 quad core, 1.9GHz, 4/8GB	
I/O	1 x Gbe LAN (2 x LAN optional) 1 to 4 x USB 2.0 ports 1 x Power input COM ports optional	
Operating System	Windows 7 / 8 / 10 Windows Embedded Standard 7 / 8 Windows 10 IoT Enterprise Linux	
Storage	1 x 2.5" SSD	
Keyboard	Touch keyboard or Membrane keyboard	
Power Supply	+90V to +264V AC-input Option for +10V to +36V DC-input	
Power Consumption	Max 40W	
Dimension and Weight	19" H 550 x W 566.2 x D 300mm, app. 22kg	
Certification	CE / FCC CLASS A	
Mounting	Wall / top / pipe	
Warranty and After Sales Support	Standard 1 year (option for 3 years)	

HMI ATEX-EX

PRODUCT		ATEX-EX HMI MONITOR 7000 SERIES	ATEX-EX HMI PANEL PC 7000 SERIES
			
Model			
Type	Monitor, Thin Client, Panel PC		
Construction	Fully sealed enclosure in stainless steel AISI 316L		
Cooling	Fanless		
Ingress Protection	IP66		
Display	15": 1024 x 768, 4:3, XGA, 15.6": 1920 x 1080, 16:9, FHD, 19": 1280 x 1024, 5:4, SXGA, 21.5": 1920 x 1080, 16:9, FHD		
Touch Type	Projected capacitive multi touch (support gloves)		
Monitor			
I/O	1 x M12 12pin for VGA with waterproof cap 1 x M12 USB for touch control with waterproof cap 1 x M12 3pin DC power with waterproof cap External OSD BOX design with M12 3M OSD cable with waterproof cap		
Thin Client			
		ThinManager, Microsoft Remote Desktop (RPD), NoTouch OS, VNC, Citrix, VMware and others	
Panel PC			
Processor and RAM	Intel Celeron N2930: 1.83GHz, 4/8GB, Intel Core i5-6300U: 2.4GHz, 4GB to 16GB		
I/O	1 x M12 8pin for 2 x USB 2.0 with waterproof cap 1 x M12 8pin for COM1 / RS-232/422/485 (default RS-232) with waterproof cap 1 x M12 8pin for LAN with waterproof cap 1 x M12 3pin for DC power with waterproof cap		
Expansion	WIFI/Bluetooth (optional)		
Operating System	Windows 7 / 8 / 10 Windows Embedded Standard 7 / 8 Windows 10 IoT Enterprise Linux		
Storage	1 x 2.5" SATA HDD / SSD, 1 x mSATA, 1 x Internal SD Card		
Power Supply	+9V to +36V DC-in by M12 3-pin		
Power Consumption	15": max 21.6W, 15.6": max 13W, 19": max 17W, 21.5": max 19W		15": max 60W, 15.6": max 54W, 19": max 54W, 21.5": max 52W
Dimension and Weight	15": H 324 x W 399 x D 70mm, app. 8.5kg 15.6": H 290 x W 440 x D 75mm, app. 9.1kg 19": H 388.6 x W 470 x D 75mm, app. 12kg 21.5": H 362 x W 571 x D 75.1mm, app. 13.3kg		15": H 324 x W 399 x D 70mm, app. 9.8kg 15.6": H 290 x W 440 x D 75mm, app. 10.5kg 19": H 388.6 x W 470 x D 75mm, app. 13.4kg 21.5": H 362 x W 571 x D 75.1mm, app. 12.6kg
Certification	ATEX Zone2 Ex nA ic IIC T4 Gc ATEX Zone22 Ex tc IIIC T135°C Dc EN 60079-0:2012/A11:2013, EN 60079-11:2012, EN 60079-15:2010, EN 60079-31:2014, EN 60079-0:2018 CE/FCC Class A CSA Std. C22.2 No213-1987 Class I, Division2, Groups A-B-C-D, T4 Class II, Division2, Groups F-G, T135°C Class III ANSI/ISA 12.12.01-2013		
Mounting	VESA 100 and Panel mount		
Warranty and After Sales Support	Standard 1 year (option for 3 years)		

CLEANROOM TABLET

PRODUCT	CLEANROOM TABLET CLEANTABLET
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Model			
Type	Cleanroom Tablet		
Construction	Detergent resistant engineering polymer casing		
Ingress Protection	IP65		
Display	10.5": 1920 x 1280	13": 2880 x 1920	
Touch Type	Projected capacitive multi touch operable with gloves Tested with up to 3 layers of nitrile and neoprene cleanroom gloves		
I/O	1 x Interface for charging (included) and USB A connectivity (via optional cable) 1 x 8.0MP rear-facing autofocus camera with 1080p HD video		
Hardware Configuration	Model 5-105 (10.5") Processor: Intel Core i3 processor RAM: 8GB Storage: SSD 128GB	Model 22-13 (13") Processor: Intel Core i5 processor RAM: 8GB Storage: SSD 256GB	Model 23-13 (13") Processor: Intel Core i5 processor RAM: 8GB Storage: SSD 256GB Nymi ready - integrated reader
		Model 21-13 (13") Processor: Intel Core i5 processor RAM: 16GB Storage: SSD 256GB	Model 24-13 Processor: Intel Core i5 processor RAM: 16GB Storage: SSD 256GB Nymi ready - integrated reader
Communication Interface	1 x WIFI 6 1 x Bluetooth 5.1 1 x Interface for charging (included) and USB A connectivity (via optional cable) 1 x 5.0MP front-facing camera with 1080p FHD video 1 x 8.0MP rear-facing autofocus camera with 1080p FHD video		
Graphic Controller	10.5" and 12.3": Intel UHD Graphics 615	13": Intel Iris Xe Graphics	
Operating System	Windows 11 Pro		
Power Supply	AC adapter including 1 meter cable for magnetic connector		
Dimension and Weight	10.5": H 209 x W 284 x D 10.7mm, 0.770kg	13": H 245 x W 327 x D 11mm, 1.20kg	
Accessories Included	AC adapter including 1 meter cable for magnetic connector		
Accessories Optional	Data cable for USB-A connectivity - Magnetic to 1x USB-A female adaptor 10cm cable Holder for desktop, wall or supporting arm - stainless steel 316L Touch pen - stainless steel 316L (for 10.5" and 12.3" tablet models) including rubber tip Touch pen - magnetic and light weight (for all tablet models) including rubber tip Rubber tip - replacement kit for touch pen, 3 pcs Barcode scanner connectable via Bluetooth Cleanroom Hub Charger for 4 tablets		
Warranty and After Sales Support	Standard 1 year		




ATEX-EX TABLET

PRODUCT	GETAC UX10	GETAC K120
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Model		
Type	Tablet	
Ingress Protection	IP65	
Display	10.1": 1920 x 1200, 8:5, WUXGA	12.5": 1920 x 1080, 16:9, FHD
Touch Type	Capacitive multi touch screen (support gloves) Option for dual mode touchscreen (multi touch and digitizer)	
I/O	Please refer to our web: www.blue-line.com	
Processor and RAM	Intel Core i7-10510U: 1.8GHz (max 4.9GHz) Intel Core i7-10610U vPro: 1.8 GHz (max 4.9GHz) Intel Core i5-10210U: 1.6GHz (max 4.2GHz) Intel Core i5-10310U vPro: 1.7GHz (max 4.4GHz) All: 8GB (option for 16GB / 32GB)	Intel Core i7-1185G7: (max 4.8GHz) Intel Core i7-1165G7 vPro: (max 4.7GHz) Intel Core i5-1135G7: (max 4.2GHz) Intel Core i5-1145G7 vPro: (max 4.4GHz) All: 16GB (option for 32GB)
Communication Interface	Intel Wi-Fi 6 AX200, 802.11ax Bluetooth (v5.1) Dedicated GPS Option for dedicated GPS Option for 4G LTE mobile broadband with integrated GPS Option for 10/100/1000 base-T Ethernet	Intel Wi-Fi 6 AX201, 802.11ax Bluetooth (v5.2) 10 / 100 / 1000 base-T Ethernet Option for dedicated GPS Option for 4G LTE mobile broadband with integrated GPS
Operating System	Windows 10 Pro / 11 Pro	
Storage	SSD 256GB (option for SSD 512GB / 1TB)	
Keyboard	Power button and 5 tablet programmable buttons	
Power Supply	1 x Li-Ion smart battery (11.1V, 4200mAh) AC adapter (65W, 100V to 240V, 50 / 60Hz) Option for 1 x high capacity battery (10.8V, 9240mAh) Option for bridge battery	2 x Li-Ion smart battery (11.1V, 2100mAh) AC adapter (65W, 100 to 240VAC, 50 / 60Hz) LifeSupport battery swappable technology Option for 2 x high capacity battery (14.4V, typical 3459mAh; min. 3300mAh)
Dimension and Weight	10.1": H 194.5 x W 276.8 x D 23.5mm, app. 1.22kg	Tablet 12.5": H 238 x W 329.5 x D 24 mm, app. 1.7kg Tablet + optional keyboard doc: H 307.5 x W 340.5 x D 47 mm, app. 3.13kg
Certification	MIL-STD-810H certified & IP65 certified MIL-STD-461G certified Vibration & 6ft (1.8m) drop resistant e-Mark certified for vehicle usage Option for ANSI/UL 121201, CSA C22.2 NO. 213 (Class I, Division 2, Groups A, B, C, D) Option for salt fog certification Option for ANSI/ISA 12.12.01 Option for ATEX & IECEx certification with the following: ATEX/IECEx Zone 2/22 Ex II 3G Ex ic op is IIC T4 Gc Ex II 3D Ex ic op is IIIB T130°C Dc	MIL-STD-810H certified & IP66 certified MIL-STD-461G certified Vibration & 6ft (1.8m) drop-resistant e-Mark certified for vehicle usage Option ANSI/UL 121201, CSA C22.2 NO. 213 (Class I, Division 2, Groups A, B, C, D) Option for ATEX & IECEx certification with the following: ATEX/IECEx Zone 2/22 Ex II 3G Ex ic op is IIC T4 Gc Ex II 3D Ex ic op is IIIB T130°C Dc
Warranty and After Sales Support	Standard 3 years	

MOBILE OPERATOR STATION

PRODUCT	MOBILE OPERATOR STATION T500		MOBILE OPERATOR STATION T1000	MOBILE OPERATOR STATION T3000
<div><div></div><div></div><div></div></div>				
Model				
Type	Mobile Operator Station			
Construction	Compact laminate	Mostly stainless steel AISI 304 and partly painted surfaces	Acid resistant stainless steel AISI 316L	
Cooling	Fanless			
Ingress Protection	Wipe down cleaning IPA 70% and damp cloth		IP65	
HMI	Equipable with one or two displays, either as monitor and seperate client or as HMI with integrated pc	Equipable with one or two displays, either as monitor and seperate client or as HMI with integrated pc	Equipable with one or two displays, either as monitor and seperate client or as HMI with integrated pc Swivel and tilt optional	
I/O	Configuration depending on build-in client/pc	Configuration depending on build-in client/pc	Configuration depending on build-in client/pc GbE LAN 2 x USB 2.0 (option for 5 x USB)	
Communication	Optional configuration depending on build-in client/pc	Optional configuration depending on build-in client/pc Optional integration for WIFI and Bluetooth including antenna	Optional configuration depending on build-in client/pc Optional integration for WIFI and Bluetooth including antenna	
Power	T500 is powered either by 100-240V AC or the integrated battery The integrated battery has a capacity of 500Wh Battery status indicator - LCD display with remaining battery time	T1000 is powered either by 100-240V AC or integrated batteries Batteries charge by internal charger when T1000 is plugged to AC or by external battery charger (optional) Configurable with 2 batteries with a total capacity up to 400Wh Each battery has a capacity of 160Wh or 200Wh Standard battery configuration: 2 x 160Wh (total 320Wh) All batteries are hot swappable for continuous 24/7 operation	2 models available. Model 1: powered by 90-264V AC only. Model 2: powered by 90-264V AC or integrated batteries Batteries charge by internal charger when T3000 is plugged to AC or by external battery charger Configurable with 2 batteries with a total capacity up to 400Wh Each battery has a capacity of 160Wh or 200Wh Standard battery configuration: 2 x 160Wh (total 320Wh) All batteries are hot swappable for continuous 24/7 operation Battery status indicator - LCD display with remaining battery time	
Work Surface	Polyrey laminate	Compact laminate	Stainless steel or chemical resistant compact laminate	
Hight Adjustment	Fixed height or electric adjustable (table height 83 to 120cm)	Electrical (table height 83 to 116cm)	Electrical height adjustment for seated and standing operation (total height 142 to 170cm)	
Casters	4 x anti-static casters - 2 with brakes	4 x anti-static casters - 2 with brakes Option for 4 anti-static casters with brakes	4 x anti-static casters with brakes	
Dimension and Weight	H 123 x W 58 x D 62cm Weight 42kg without monitor and thin client	H 122 to 155 x W 55 x D 55cm Weight 47.2kg without batteries and HMI	Max height 170cm Max width 58cm Max depth 69cm Weight 56kg without HMI and batteries 61kg including batteries without HMI	
Certification	CE	CE / FCC CLASS A	CE Tested to meet the mechanical stability and safety according to IEC 60601-1 3rd Edition UKCA compliant	
Warranty and After Sales Support	Standard 1 year (option for 3 years)			

KEYBOARD & MOUSE

PRODUCT	CLEANROOM TOUCH KEYBOARD	CLEANROOM MEMBRANE KEYBOARD	CLEANROOM KEYBOARD IN STAINLESS STEEL HOUSING	WATERPROOF AND DUSTPROOF KEYBOARD
<div><div></div><div></div><div></div><div></div></div>				
Model				
Type	Cleanroom Touch Keyboard	Cleanroom Membrane Keyboard	Cleanroom Keyboard in Stainless Steel Housing	Waterproof and Dustproof Keyboard
Construction	Tempered glass front (3mm) in plastic housing	Plastic	Fully sealed enclosure in stainless steel AISI 304 or 316L	Silicone
Ingress Protection	IP65			IP68
Input Type	Capacitive touch (support gloves)	Membrane keys	Capacitive touch or membrane	
Number of Keys	103	105	103	104
Mouse Function	Capacitive touchpad			
Interface	USB (option for wireless connection)	USB		
Operating System	Windows, MacOSX, Linux			
Dimension and Weight	H 22.8 x W 482 x D 179mm, 0.9kg	H 34.9 x W 482.6 x D 184.6mm, 1.3kg	H 50 x W 540 x D 250mm, 6.5kg	H 18 x W 340 x D 165mm, 0.7kg
Warranty and After Sales Support	Standard 1 year (option for 3 years)			

PRODUCT	CLEANROOM LASER MOUSE	WATERPROOF AND DUSTPROOF WIRELESS MOUSE
<div><div></div><div></div></div>		
Model		
Type	Cleanroom Laser Mouse	Waterproof and Dustproof Wireless Mouse
Construction	Silicone	Plastic
Ingress Protection	IP68	IP68 (mouse body)
Certification	CE / FCC	
Number of Keys	5	2 + scroll wheel
Interface	USB	USB Wireless 2.4GHz RF technology AES128 encryption
Dimension and Weight	H 37 x W 60 x D 105 mm, app. 170g	H 117 x W 65 x D 37.5 mm, mouse: app. 80 g Charger station: app. 140g
Accessories Included		Charger station
Warranty and After Sales Support	Standard 1 year (option for 3 years)	

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