

# SmartClient-KLU

MULTI-TOUCH SCREEN, FANLESS, ANTI-SPRAY

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## 21.5" WIDESCREEN 10-POINT PCT FLAT PANEL PC WITH INTEL® KABY LAKE U-SERIES PROCESSORS

- ▶ 1x HDMI 2.0, 1x DP for display output
- ▶ 2x GbE LAN for Ethernet
- ▶ 4x USB 3.0, 2x RS232/422/485 for peripheral connection
- ▶ 1x 2.5" SATA HDD / SSD for storage
- ▶ 1x mPCIe, 1x M.2 Key B for expansion

POSSIBILITIES START HERE



# SmartClient-KLU

## 21.5" WIDESCREEN 10-POINT PCT FLAT PANEL PC WITH INTEL® KABY LAKE U-SERIES PROCESSORS

Powered by 7th Generation Intel® Kaby Lake U-Series Processors, Kontron SmartClient-KLU Flat Panel PC has greatly improved graphics performance, power efficiency and wireless connectivity. In addition to 1x HDMI 2.0, 1x DP, 2x GbE LAN, 4x USB 3.0 and 2x RS232/422/485 for display output, Ethernet and peripheral applications, it reserves 1x mPCIe and 1x M.2 Key B for wireless, storage or other possible functional expansion.

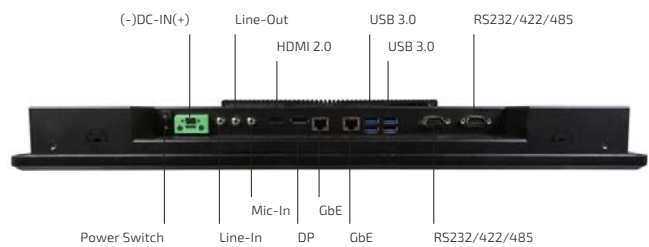
The 21.5" widescreen with 16:9 aspect ratio and 10-point PCT

multi-touch function is its another important feature, which can provide comfortable viewing experience to operators and allow multi-window display without toggling.

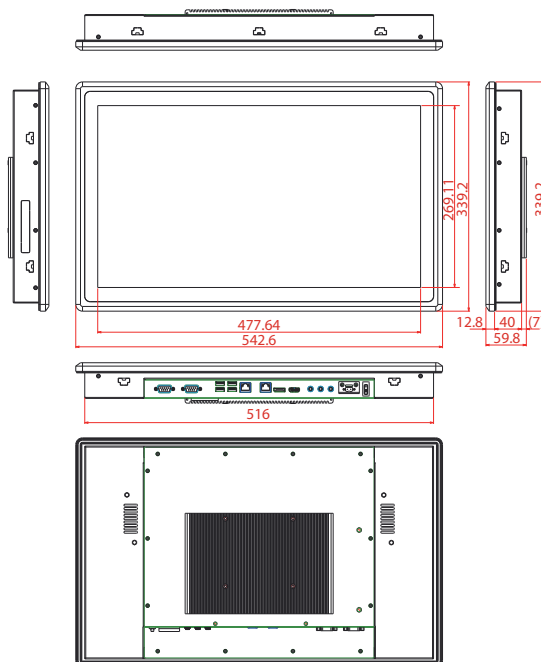
Finally, the IP65-rated flat panel front design with 6H hardness glassy surface can provide good resistance against water spray, contamination, scratch or abrasion, making it suitable for harsh environments. It is therefore ideal for a wide range of industrial applications.

### ▶ PRODUCT HIGHLIGHTS

- ▶ 21.5" widescreen 10-point PCT multi-touch LCD display
- ▶ Intel® Kaby Lake U-Series Processors
- ▶ 2x DDR4 SO-DIMM
- ▶ 1x HDMI 2.0, 1x DP for video output
- ▶ Triple display support
- ▶ 2x GbE LAN for Ethernet
- ▶ 4x USB 3.0, 2x RS232/422/485 for peripheral connection
- ▶ 1x 2.5" SATA HDD / SSD for storage
- ▶ 1x mPCIe, 1x M.2 Key B for expansion
- ▶ Passive cooling design
- ▶ IP65-rated front design
- ▶ Flat panel design
- ▶ Glass hardness of 6H



### ▶ MECHANICAL DIMENSIONS



## ► TECHNICAL INFORMATION

<b>System</b>	<b>Processor</b>	Intel® Core™ i3-7100U (Dual Core, 3M Cache, 2.40 GHz, FCBGA1356, 15 W TDP) Intel® Core™ i7-7600U (Dual Core, 4M Cache, up to 3.90 GHz, FCBGA1356, 15 W TDP) Intel® Celeron® 3965U (Dual Core, 2M Cache, 2.20 GHz, FCBGA1356, 15 W TDP)
	<b>Memory</b>	2x DDR4 2133 SO-DIMM up to 16 GByte
<b>Video</b>	<b>Graphics</b>	Intel® HD Graphics 610 (Celeron® CPU) Intel® HD Graphics 620 (Core™ i CPU)
	<b>Display Size</b>	21.5 inch
	<b>Aspect Ratio</b>	16:9
	<b>Backlight</b>	LED
	<b>Resolution</b>	1920 x 1080 Full HD
	<b>Brightness (cd/m², typ.)</b>	250
	<b>Contrast Ratio (typ.)</b>	5000:1
	<b>Color</b>	16.7M
	<b>Viewing Angle (L/R/H/L)</b>	89° / 89° / 89° / 89°
	<b>Touch</b>	10-point PCT
	<b>Display Interface</b>	1x HDMI 2.0 (on rear, 3840 x 2160 @ 60 Hz) 1x DP (on rear, 4096 x 2304 @ 60 Hz)
	<b>Multiple Display</b>	Triple
<b>Audio</b>	<b>Audio Codec</b>	Realtek ALC662
	<b>Audio Interface</b>	2x Speaker-out (3 W) 1x Line-in (on rear) 1x Line-out (on rear) 1x Mic-in (on rear)
<b>Network Connection</b>	<b>Ethernet</b>	2x GbE LAN (RJ45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT)
<b>Peripheral Connection</b>	<b>USB</b>	4x USB 3.0 (Type A on rear)
	<b>Serial Port</b>	2x RS232/422/485 (DB9 on rear, w/ auto flow control for RS485)
<b>Storage &amp; Expansion</b>		1x 2.5" SATA 3.0 HDD / SSD 1x mPCIe (full size) 1x M.2 Key B Socket (mixed w/ USB 2.0 or SATA) 1x SIM Card Cage (optional, switchable for mPCIe or M.2)
<b>Power</b>	<b>Connector</b>	Phoenix Connector (on rear)
	<b>Input Voltage</b>	DC 12 V
<b>Firmware</b>	<b>BIOS</b>	AMI uEFI BIOS w/ 128 Mb SPI Flash
	<b>Watchdog</b>	Programmable WDT to generate system reset event
	<b>H/W Monitor</b>	Voltages, Temperatures
	<b>Real Time Clock</b>	Processor integrated RTC
	<b>TPM</b>	Supported by default for model w/ Core™ i7, optional for others (Infineon SLB 9665 TPM 2.0)
	<b>iAMT</b>	Supported for model w/ Core™ i7 CPU
<b>System Control</b>	<b>Button &amp; Switch</b>	1x Power Switch (on rear)
<b>Cooling</b>	<b>Cooling Method</b>	Passive
<b>Software</b>	<b>OS Support</b>	Windows 7, Windows 8, Windows 10, Linux
<b>Mechanical</b>	<b>Construction</b>	Glass Surface + Slim Aluminum Frame + Metal Chassis + Aluminum Heat Sink
	<b>Dimensions (W x H x D)</b>	542.6 mm x 339.2 mm x 59.8 mm / 21.36" x 13.35" x 2.35"
	<b>Weight</b>	7000 g / 15.43 lb
	<b>Mounting</b>	VESA Mount, Panel Mount
<b>Environmental</b>	<b>Operation Temperature</b>	0 °C ~ 50 °C / 32 °F ~ 122 °F
	<b>Storage Temperature</b>	-20 °C ~ 70 °C / -4 °F ~ 158 °F
	<b>Humidity</b>	0 % ~ 95 %
<b>Certification</b>	<b>EMC &amp; Safety</b>	CE, FCC Class A
	<b>Ingress Protection</b>	IP65 (front)

## ▶ ORDERING INFORMATION

ARTICLE	DESCRIPTION
SmartClient-KLU0-215-P	Intel® Core™ i3-7100U
SmartClient-KLU1-215-P	Intel® Core™ i7-7600U
SmartClient-KLU3-215-P	Intel® Celeron® 3965U

OPTIONAL ACCESSORIES	
VESA MOUNTING KIT	Hole pattern: 100 mm x 100 mm & 75 mm x 75 mm, dimension: 163 mm x 130 mm
POWER ADAPTER	AC to DC, 100 V ~ 240 V
POWER CORD	

## ▶ GLOBAL HEADQUARTERS

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