

# SmartClient-KLU

MULTI-TOUCH SCREEN, FANLESS, ANTI-SPRAY

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## 21.5" WIDESCREEN 10-POINT PCT FLAT PANEL PC WITH 7TH GEN INTEL® CORE™ / CELERON® U-SERIES PROCESSORS

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

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## 21.5" WIDESCREEN 10-POINT PCT FLAT PANEL PC WITH 7TH GEN INTEL® CORE™ / CELERON® U-SERIES PROCESSORS

Powered by 7th Generation Intel® Core™ / Celeron® U-Series Processors, SmartClient-KLU Flat Panel PC has greatly improved graphics performance, power efficiency and wireless connectivity. In addition to 1x DP, 1x HDMI 2.0, 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.

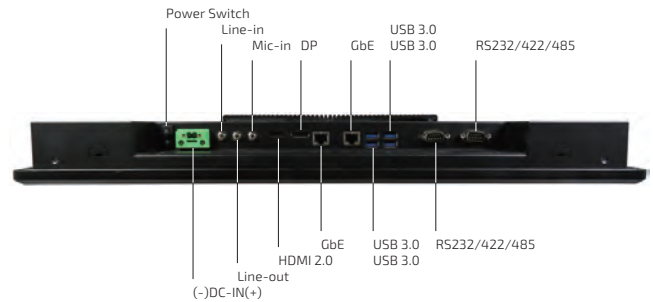
multi-touch function is its another important feature, which can provide comfortable viewing experience to operators and allow multi-window display without toggling.

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.

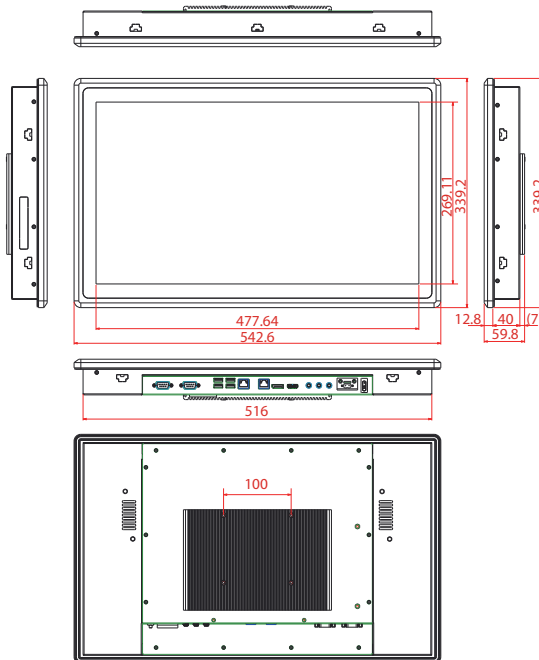
The 21.5" widescreen with 16:9 aspect ratio and 10-point PCT

### ▶ PRODUCT HIGHLIGHTS

- ▶ 21.5" widescreen 10-point PCT multi-touch LCD display
- ▶ 7th Generation Intel® Core™ / Celeron® U-Series Processors
- ▶ 2x DDR4 SO-DIMM memory socket
- ▶ 1x DP, 1x HDMI 2.0 for secondary / tertiary display
- ▶ 2x GbE LAN for Ethernet
- ▶ 4x USB 3.0 for USB device connection
- ▶ 2x RS232/422/485 for serial device connection
- ▶ 1x 2.5" SATA 3.0 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



unit: mm

► TECHNICAL INFORMATION

<b>SYSTEM</b>	<b>PROCESSOR</b>  <b>MEMORY</b>	Intel® Core™ i7-7600U (Dual Core, 4M Cache, up to 3.90 GHz, FCBGA1356, 15 W TDP) Intel® Core™ i3-7100U (Dual Core, 3M Cache, 2.40 GHz, FCBGA1356, 15 W TDP) Intel® Celeron® 3965U (Dual Core, 2M Cache, 2.20 GHz, FCBGA1356, 15 W TDP) 2x DDR4 2133 SO-DIMM up to 16 GByte
<b>VIDEO</b>	<b>GRAPHICS</b>  <b>DISPLAY SIZE</b> <b>ASPECT RATIO</b> <b>BACKLIGHT</b> <b>RESOLUTION</b> <b>BRIGHTNESS (cd/m<sup>2</sup>, typ.)</b> <b>CONTRAST RATIO (typ.)</b> <b>COLOR</b> <b>VIEWING ANGLE (L/R/H/L)</b> <b>TOUCH</b> <b>DISPLAY INTERFACE</b>  <b>MULTIPLE DISPLAY</b>	Intel® HD Graphics 610 (Celeron® CPU) Intel® HD Graphics 620 (Core™ i CPU) 21.5 inch 16:9 LED 1920 x 1080 Full HD 250 5000:1 16.7M 89 ° / 89 ° / 89 ° / 89 ° 10-point PCT 1x DP (on rear, 4096 x 2304 @ 60 Hz) 1x HDMI 2.0 (on rear, 4096 x 2160 @ 60 Hz) Triple
<b>AUDIO</b>	<b>AUDIO CODEC</b> <b>AUDIO INTERFACE</b>	Realtek ALC662 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> <b>SERIAL PORT</b>	4x USB 3.0 (Type A on rear) 2x RS232/422/485 (DB9 on rear, w/ auto flow control for RS485)
<b>STORAGE &amp; EXPANSION</b>	<b>SATA</b> <b>mPCIe</b> <b>M.2</b> <b>SIM CARD HOLDER</b>	1x 2.5" SATA 3.0 HDD / SSD 1x mPCIe (full size) 1x M.2 Key B Socket (Type 2242, mixed w/ USB 2.0 or SATA) 1x SIM Card Cage (optional, switchable for mPCIe or M.2)
<b>POWER</b>	<b>INPUT VOLTAGE</b> <b>CONNECTOR</b>	DC 12 V 2-pin Phoenix Connector (on rear)
<b>FIRMWARE</b>	<b>BIOS</b> <b>WATCHDOG</b> <b>H/W MONITOR</b> <b>REAL TIME CLOCK</b> <b>SECURITY</b> <b>iAMT</b>	AMI uEFI BIOS w/ 128 Mb SPI Flash Programmable WDT to generate system reset event Voltages, Temperatures Processor integrated RTC TPM 2.0 support for Core™ i7 / i5, optional for others (Infineon SLB 9665) iAMT support for Core™ i7 / i5
<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 10, Linux
<b>MECHANICAL</b>	<b>CONSTRUCTION</b> <b>DIMENSIONS (W x H x D)</b> <b>WEIGHT</b> <b>MOUNTING</b>	Glass Surface + Slim Aluminum Frame + Metal Chassis + Aluminum Heat Sink 542.6 mm x 339.2 mm x 59.8 mm / 21.36" x 13.35" x 2.35" 7,000 g / 15.43 lb VESA Mount, Panel Mount
<b>ENVIRONMENTAL</b>	<b>OPERATION TEMPERATURE</b> <b>STORAGE TEMPERATURE</b> <b>HUMIDITY</b>	0 °C ~ 50 °C / 32 °F ~ 122 °F -20 °C ~ 70 °C / -4 °F ~ 158 °F 0 % ~ 95 %
<b>CERTIFICATION</b>	<b>EMC &amp; SAFETY</b> <b>INGRESS PROTECTION</b>	CE Class B, FCC Class B IP65 (front)

► ORDERING INFORMATION

ARTICLE	DESCRIPTION
SmartClient-KLU1-215-P	Intel® Core™ i7-7600U, w/ TPM, w/ iAMT
SmartClient-KLU0-215-P	Intel® Core™ i3-7100U, w/o TPM, w/o iAMT
SmartClient-KLU3-215-P	Intel® Celeron® 3965U, w/o TPM, w/o iAMT

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	Input: AC 100 V ~ 240 V, Output: DC 12 V
POWER CORD	EU / US / UK / JP / CN / AU type depending on country

The asterisk (\*) means optional item.