

SmartClient-KLU

MULTI-TOUCH SCREEN, FANLESS, ANTI-SPRAY



Ordered & Served at
Kontron Asia

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

POSSIBILITIES START HERE



SmartClient-KLU

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, Kontron 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.

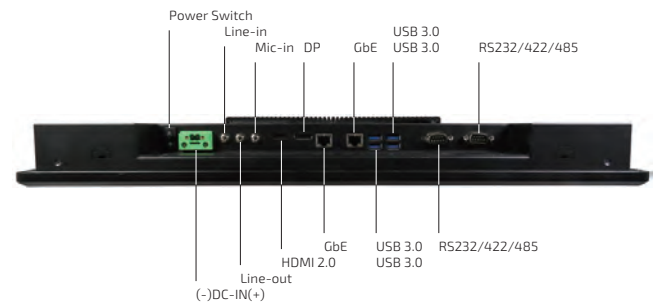
The 21.5" widescreen with 16:9 aspect ratio and 10-point PCT

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

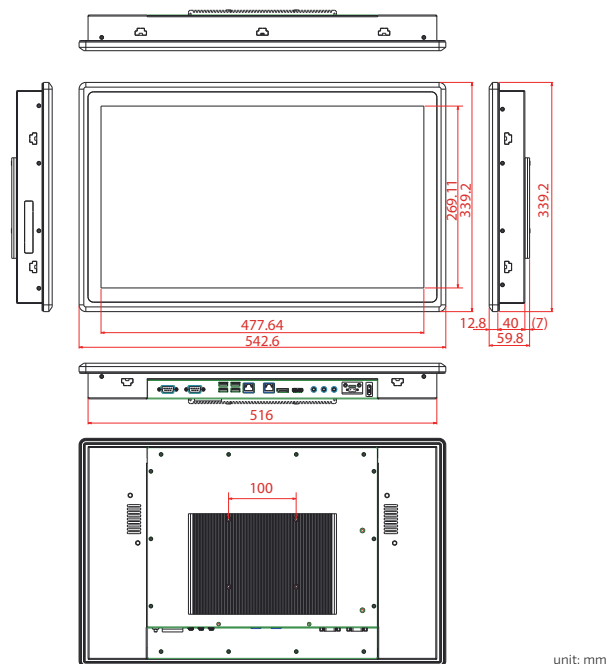
Finally, the IP65-rated flat panel front design with 6H hardness glassy surface can provide good resistance against water spray, contamination, scratch or abrasion, making it suitable for harsh environments. It is therefore ideal for a wide range of industrial applications.

PRODUCT HIGHLIGHTS

- ▶ 21.5" widescreen 10-point PCT multi-touch LCD display
- ▶ 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



► TECHNICAL INFORMATION

SYSTEM	PROCESSOR	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
VIDEO	MEMORY	
	GRAPHICS	Intel® HD Graphics 610 (Celeron® CPU) Intel® HD Graphics 620 (Core™ i CPU)
	DISPLAY SIZE	21.5 inch
	ASPECT RATIO	16:9
	BACKLIGHT	LED
	RESOLUTION	1920 x 1080 Full HD
	BRIGHTNESS (cd/m², typ.)	250
	CONTRAST RATIO (typ.)	5000:1
	COLOR	16.7M
	VIEWING ANGLE (L/R/H/L)	89 ° / 89 ° / 89 ° / 89 °
	TOUCH	10-point PCT
	DISPLAY INTERFACE	1x DP (on rear, 4096 x 2304 @ 60 Hz) 1x HDMI 2.0 (on rear, 4096 x 2160 @ 60 Hz)
	MULTIPLE DISPLAY	Triple
AUDIO	AUDIO CODEC	Realtek ALC662
	AUDIO INTERFACE	2x Speaker-out (3 W) 1x Line-in (on rear) 1x Line-out (on rear) 1x Mic-in (on rear)
NETWORK CONNECTION	ETHERNET	2x GbE LAN (RJ45 on rear, 1x Intel® I219-LM, 1x Intel® I210-AT)
PERIPHERAL CONNECTION	USB	4x USB 3.0 (Type A on rear)
	SERIAL PORT	2x RS232/422/485 (DB9 on rear, w/ auto flow control for RS485)
STORAGE & EXPANSION		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)
POWER	INPUT VOLTAGE	DC 12 V
	CONNECTOR	2-pin Phoenix Connector (on rear)
FIRMWARE	BIOS	AMI uEFI BIOS w/ 128 Mb SPI Flash
	WATCHDOG	Programmable WDT to generate system reset event
	H/W MONITOR	Voltages, Temperatures
	REAL TIME CLOCK	Processor integrated RTC
	TPM	TPM 2.0 support for Core™ i7 / i5, optional for others (Infineon SLB 9665)
	iAMT	iAMT support for Core™ i7 / i5
SYSTEM CONTROL	BUTTON & SWITCH	1x Power Switch (on rear)
COOLING	COOLING METHOD	Passive
SOFTWARE	OS SUPPORT	Windows 10, Linux
MECHANICAL	CONSTRUCTION	Glass Surface + Slim Aluminum Frame + Metal Chassis + Aluminum Heat Sink
	DIMENSIONS (W x H x D)	542.6 mm x 339.2 mm x 59.8 mm / 21.36" x 13.35" x 2.35"
	WEIGHT	7,000 g / 15.43 lb
	MOUNTING	VESA Mount, Panel Mount
ENVIRONMENTAL	OPERATION TEMPERATURE	0 °C ~ 50 °C / 32 °F ~ 122 °F
	STORAGE TEMPERATURE	-20 °C ~ 70 °C / -4 °F ~ 158 °F
	HUMIDITY	0 % ~ 95 %
CERTIFICATION	EMC & SAFETY	CE Class B, FCC Class B
	INGRESS PROTECTION	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	AC to DC, 100 V ~ 240 V
POWER CORD	

(ordered at Kontron Asia and all technical support, RMA and warranty will be provided by Kontron Asia)

► PRODUCT CONTACT POINT

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