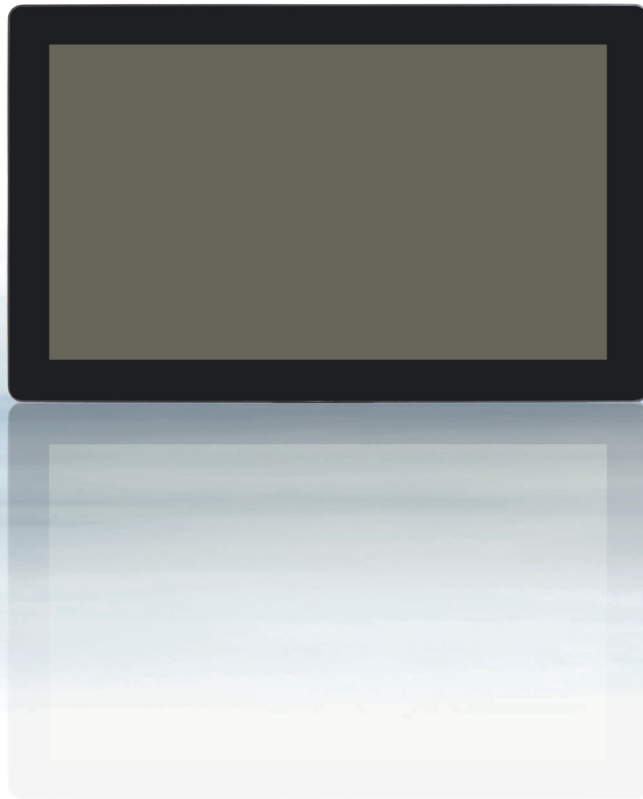


XtremeClient-APL

ULTRA-SLIM BEZEL, FANLESS, ANTI-SPRAY



15.6" / 18.5" / 21.5" / 23.8" WIDESCREEEN 10-POINT PCAP PANEL PC
W/ INTEL® ATOM® E3900 & PENTIUM® / CELERON® N SERIES CPU

- ▶ 1x DP, 1x HDMI for second / third display support
- ▶ 2x GbE LAN for Ethernet
- ▶ 4x USB 3.2 Gen 1, 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

XtremeClient-APL

WIDESCREEN 10-POINT PCAP PANEL PC W/ INTEL® ATOM® E3900 SERIES & PENTIUM® / CELERON® N-SERIES CPU

Powered by Intel® Atom® E3900 Series & Pentium® / Celeron® N-Series SoC processors, XtremeClient-APL Panel PC is a performance upgrade option for entry-level applications. In addition to 1x HDMI, 1x DP, 2x GbE LAN, 4x USB 3.2 Gen 1 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.

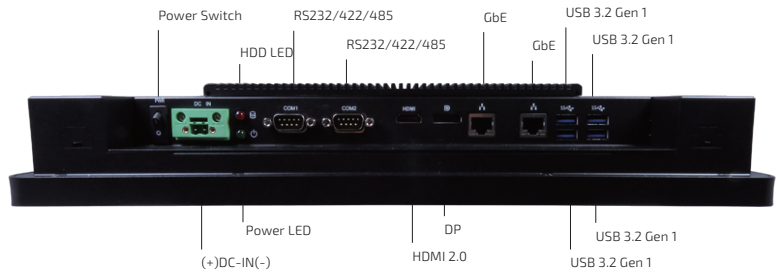
The ultra-slim frame design is its another important feature, which provides an almost zero-frame screen and puts no boundary on

the visual enjoyment. In addition, the widescreen with 16:9 aspect ratio and 10-point PCAP multi-touch function can provide comfortable viewing experience to operators and allow multi-window display without toggling.

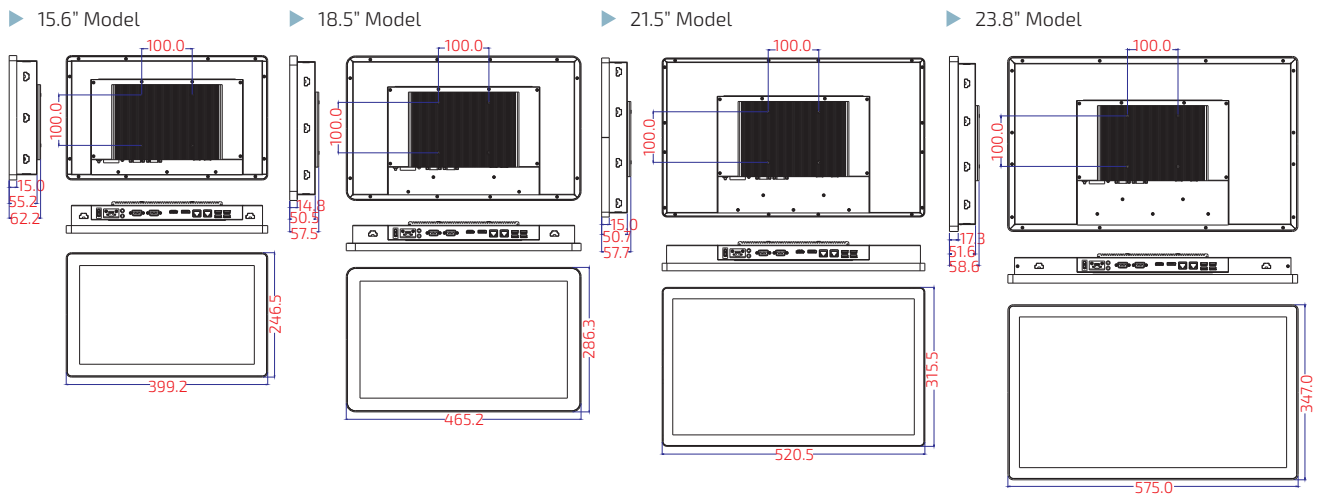
Finally, the IP65-rated flat panel front design with 6H hardness glassy surface can provide good resistance against water spray, contamination, scratch or abrasion, making it suitable for harsh environments. It is therefore ideal for a wide range of industrial applications.

▶ PRODUCT HIGHLIGHTS

- ▶ 15.6" / 18.5" / 21.5" / 23.8" widescreen 10-point PCAP multi-touch LCD display
- ▶ Intel® Atom® E3900 Series & Pentium® / Celeron® N-Series Processors
- ▶ 2x DDR3L SO-DIMM memory support
- ▶ 1x DP, 1x HDMI for second / third display support
- ▶ 2x GbE LAN for Ethernet
- ▶ 4x USB 3.2 Gen 1 for USB device connection
- ▶ 2x RS232/422/485 for serial device connection
- ▶ 1x 2.5" SATA 3.0 HDD / SSD support
- ▶ 1x mPCIe for WLAN / Bluetooth / WWAN expansion
- ▶ 1x M.2 Key B for SSD / WWAN expansion
- ▶ Passive cooling design
- ▶ IP65-rated front design
- ▶ Fully flat front design
- ▶ Ultra-slim frame design
- ▶ Glass hardness of 6H



▶ MECHANICAL DIMENSIONS



unit: mm

► TECHNICAL INFORMATION

SYSTEM	PROCESSOR	Intel® Atom™ x7-E3950 (Quad Core, 2M Cache, 1.60 / 2.00 GHz, FCBGA1296, 12 W TDP) Intel® Atom™ x5-E3940 (Quad Core, 2M Cache, 1.60 / 1.80 GHz, FCBGA1296, 9.5 W TDP) Intel® Pentium® N4200 (Quad Core, 2M Cache, 1.10 / 2.50 GHz, FCBGA1296, 6 W TDP) Intel® Celeron® N3350 (Dual Core, 2M Cache, 1.10 / 2.40 GHz, FCBGA1296, 6 W TDP)
	MEMORY	2x DDR3L 1867 SO-DIMM up to 8 GByte
VIDEO	GRAPHICS	Intel® HD Graphics 505 (Atom™ x7-E3950 / Pentium® N4200) Intel® HD Graphics 500 (Atom™ x5-E3940 / Celeron® N3350)
	DISPLAY SIZE	15.6 inch 18.5 inch 21.5 inch 23.8 inch
	ASPECT RATIO	16:9 16:9 16:9 16:9
	BACKLIGHT	LED LED LED LED
	RESOLUTION	1366 x 768 WXGA 1366 x 768 WXGA 1920 x 1080 Full HD 1920 x 1080 Full HD
	BRIGHTNESS (cd/m², typ.)	300 300 250 400
	CONTRAST RATIO (typ.)	500:1 1000:1 5000:1 1000:1
	COLOR	262K / 16.7M 16.7M 16.7M 16.7M
	VIEWING ANGLE (L/R/H/L, °)	80 / 80 / 80 / 80 85 / 85 / 80 / 80 89 / 89 / 89 / 89 89 / 89 / 89 / 89
	TOUCH	10-point PCAP 10-point PCAP 10-point PCAP 10-point PCAP
	DISPLAY INTERFACE	1x DP (on rear, 4096 x 2304 @ 60 Hz) 1x HDMI (on rear, 4096 x 2160 @ 24 Hz)
	MULTIPLE DISPLAY	Triple
NETWORK CONNECTION	ETHERNET	2x GbE LAN (RJ45 on rear, Intel® I210-AT)
PERIPHERAL CONNECTION	USB	4x USB 3.2 Gen 1 (Type A on rear)
	SERIAL PORT	2x RS232/422/485 (DB9 on rear, w/ auto flow control for RS485)
STORAGE & EXPANSION	SATA	1x 2.5" SATA 3.0 HDD / SSD
	mPCIe	1x mPCIe (full size, w/ PCIe / USB 2.0 / UIM)
	M.2	1x M.2 Key B (type 22x42, w/ USB 2.0 / SATA 3.0 / UIM)
	SIM CARD HOLDER	1x SIM Card Holder (optional)
POWER	INPUT VOLTAGE	DC 12 V @ 60 W (Optional DC 24 V)
	CONNECTOR	2-pin Terminal Block (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
	SECURITY	TPM 2.0 (optional, Infineon SLB 9665)
SYSTEM CONTROL	BUTTON & SWITCH	1x Power Switch (on rear)
	INDICATOR	1x Power LED (on rear) 1x HDD LED (on rear)
COOLING	COOLING METHOD	Passive
SOFTWARE	OS SUPPORT	Windows 10 IoT
MECHANICAL	CONSTRUCTION	Glass Surface + Metal Chassis w/ Ultra-slim Frame + Aluminum Heat Sink
	DIMENSIONS - W	399.2 mm (15.72") 465.2 mm (18.31") 520.5 mm (20.49") 575.0 mm (22.64")
	DIMENSIONS - H	246.5 mm (9.70") 286.3 mm (11.27") 315.5 mm (12.42") 347.0 mm (13.66")
	DIMENSIONS - D	62.2 mm (2.45") 57.5 mm (2.26") 57.7 mm (2.27") 58.6 mm (2.31")
	WEIGHT	4300 g (9.48 lb) 5200 g (11.46 lb) 6200 g (13.67 lb) 7100 g (15.65 lb)
	MOUNTING	Panel Mount, VESA Mount (100 mm x 100 mm)
ENVIRONMENTAL	OPERATION TEMPERATURE	0 °C ~ 50 °C / 32 °F ~ 122 °F
	STORAGE TEMPERATURE	-20 °C ~ 85 °C / -4 °F ~ 185 °F
	HUMIDITY	0% ~ 95%
COMPLIANCE	EMC & SAFETY	CE Class B, FCC Class B
	INGRESS PROTECTION	IP65 (front)

► ORDERING INFORMATION

ARTICLE	DESCRIPTION
XtremeClient-APLO-156-P	15.6" 16:9 LCD Display, Intel® Atom™ x7-E3950
XtremeClient-APL1-156-P	15.6" 16:9 LCD Display, Intel® Atom™ x5-E3940
XtremeClient-APL3-156-P	15.6" 16:9 LCD Display, Intel® Pentium® N4200
XtremeClient-APL4-156-P	15.6" 16:9 LCD Display, Intel® Celeron® N3350
XtremeClient-APLO-185-P	18.5" 16:9 LCD Display, Intel® Atom™ x7-E3950
XtremeClient-APL1-185-P	18.5" 16:9 LCD Display, Intel® Atom™ x5-E3940
XtremeClient-APL3-185-P	18.5" 16:9 LCD Display, Intel® Pentium® N4200
XtremeClient-APL4-185-P	18.5" 16:9 LCD Display, Intel® Celeron® N3350
XtremeClient-APLO-215-P	21.5" 16:9 LCD Display, Intel® Atom™ x7-E3950
XtremeClient-APL1-215-P	21.5" 16:9 LCD Display, Intel® Atom™ x5-E3940
XtremeClient-APL3-215-P	21.5" 16:9 LCD Display, Intel® Pentium® N4200
XtremeClient-APL4-215-P	21.5" 16:9 LCD Display, Intel® Celeron® N3350
XtremeClient-APLO-238-P	23.8" 16:9 LCD Display, Intel® Atom™ x7-E3950
XtremeClient-APL1-238-P	23.8" 16:9 LCD Display, Intel® Atom™ x5-E3940
XtremeClient-APL3-238-P	23.8" 16:9 LCD Display, Intel® Pentium® N4200
XtremeClient-APL4-238-P	23.8" 16:9 LCD Display, Intel® Celeron® N3350

ACCESSORIES

POWER ADAPTER	Input: AC 90 V ~ 264 V, Output: DC 12 V, 60 W, open wire
POWER CORD	EU / US / UK / JP / CN / AU type depending on country
PANEL MOUNTING KIT	Mounting clamp screws (q'ty depending on panel size)
VESA MOUNTING KIT*	2x bracket (Hole pattern: 100 mm x 100 mm & 75 mm x 75 mm), 4x screw
WIFI + BT MODULE KIT*	Wi-Fi 2.4 GHz / 5 GHz, Bluetooth 4.0 Class I, mPCIe interface, 2x antenna

(*: Optional)