

SmartClient-AMH/ADH



Modular Panel PC with Intel® Atom® x7000RE Series, Intel® Core™ i3 N-Series & Intel® N-Series Processors

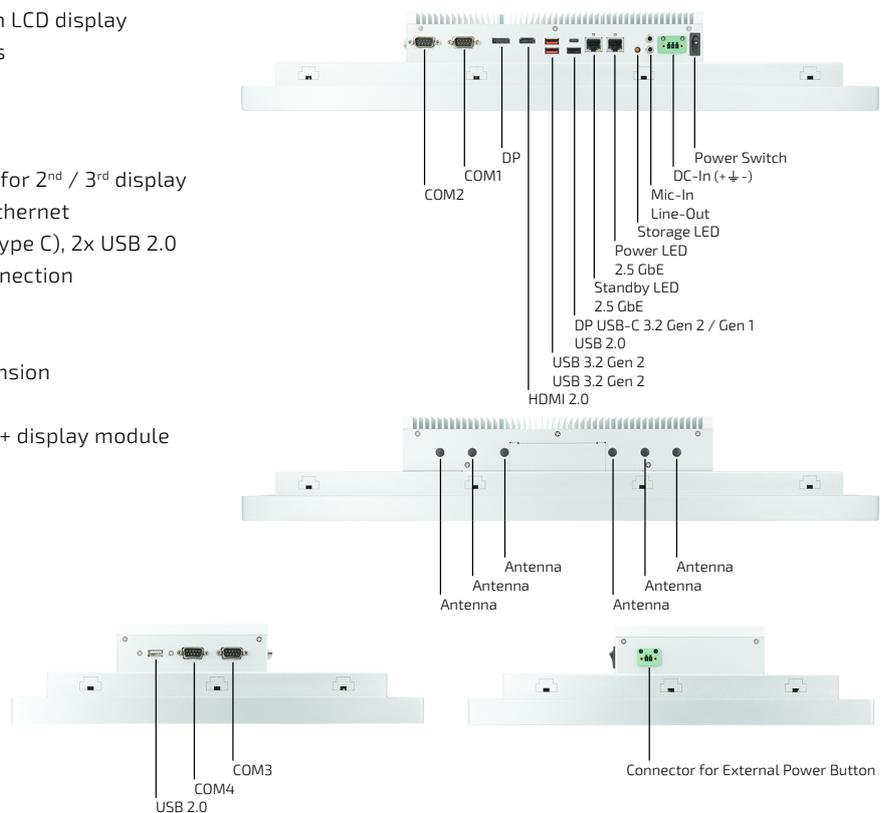
- Modular design for flexible combination among box modules and display modules
- Upgraded processing and graphics performance + faster AI inference capability
- User-friendly multi-touch interface to make complex tasks simple
- Good resistance against water spray and dust ingress under harsh conditions
- Hardware-based protection against malware and sophisticated cyberattacks

Modular Panel PC w/ Intel® Atom® x7000RE Series, Intel® Core™ i3 N-Series & Intel® N-Series CPUs

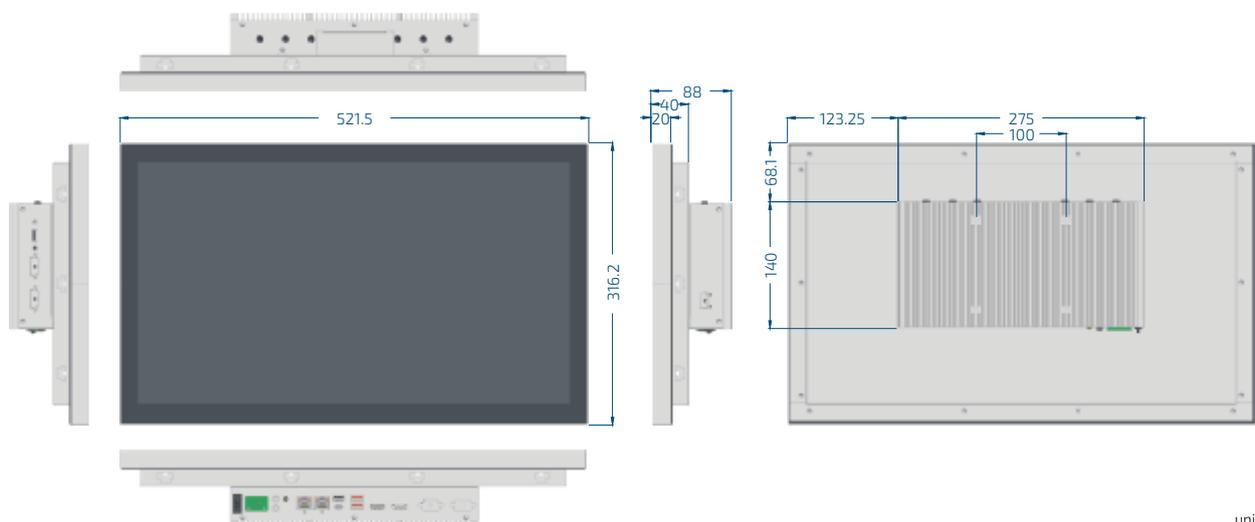
SmartClient-AMH/ADH, powered by Intel® Atom® x7000RE Series (codenamed Amston Lake), Intel® Core™ i3 N-Series and Intel® N-Series Series (codenamed Alder Lake N) processors with integrated Graphics and AI acceleration features, can deliver upgraded performance, enhanced media transcoding and faster AI inference for machine control, processing visualization and visual detection applications that require responsive and accurate touch sensitivity.

The panel PC features its modular design composed of a computing box module and a display module, allowing a flexible combination chosen from a variety of computing performance options and paired with a variety of display size options. The design offers enhanced upgradeability to remain the system up-to-date without disposing the entire system. In addition, technicians can easily replace and maintain the broken-down module to reduce downtime and improve overall maintenance efficiency.

- 21.5" widescreen 10-pt PCAP multi-touch LCD display
- Intel® Atom® x7000RE Series Processors
- Intel® Core™ i3 N-Series Processors
- Intel® N-Series Processors
- 1x DDR5 SO-DIMM memory support
- 2x DP (1x full DP, 1x USB-C), 1x HDMI 2.0 for 2nd / 3rd display
- 2x 2.5 GbE LAN with TSN for real-time Ethernet
- 3x USB 3.2 Gen 2 / Gen 1 (2x Type A, 1x Type C), 2x USB 2.0
- 4x RE232/422/485 for serial device connection
- 1x 2.5" SATA 3.0 HDD / SSD support
- 1x M.2 Key B for SSD / WWAN expansion
- 1x M.2 Key E for WLAN / Bluetooth expansion
- 1x M.2 Key M for SSD storage
- Modular design: computing box module + display module
- Passive cooling design
- Wide voltage input range: DC 13 V ~ 36 V
- IP65-rated front design
- Glass hardness of 7H
- dTPM 2.0 support for stronger security



Mechanical Dimensions



unit: mm

SYSTEM	PROCESSOR	Intel® Atom® x7211RE (Dual Core, 6M Cache, 1.0 / 3.2 GHz, 6 W TDP) Intel® Atom® x7433RE (Quad Core, 6M Cache, 1.5 / 3.4 GHz, 9 W TDP) Intel® Core™ i3-N305 (Octa Core, 6M Cache, 1.8 / 3.8 GHz, 15 W TDP) Intel® N97 (Quad Core, 6M Cache, 2.0 / 3.6 GHz, 12 W TDP) 1x DDR5 4800 SO-DIMM up to 16 GByte
	MEMORY	
VIDEO	GRAPHICS DISPLAY SIZE ASPECT RATIO BACKLIGHT RESOLUTION BRIGHTNESS (cd/m², typ.) CONTRAST RATIO (typ.) COLOR VIEWING ANGLE (L/R/H/L) TOUCH DISPLAY INTERFACE MULTIPLE DISPLAY	Intel® UHD Graphics Gen12 21.5 inch 16:9 LED 1920 x 1080 Full HD 500 1000:1 16.7M 89 ° / 89 ° / 89 ° / 89 ° 10-point PCAP 2x DP (4096 x 2160 @ 60 Hz, 1x Full-size DP + 1x DP USB-C on rear bottom) 1x HDMI 2.0 (4096 x 2160 @ 60 Hz, on rear bottom) Triple Display
AUDIO	AUDIO CODEC AUDIO INTERFACE	TSI 92HD91B 1x Line-out (on rear bottom) 1x Mic-in (on rear bottom)
NETWORK CONNECTION	ETHERNET	2x 2.5 GbE LAN (RJ45 on rear bottom, Intel® I226-V/IT, TSN support*)
PERIPHERAL CONNECTION	USB SERIAL PORT	2x USB-A 3.2 Gen 2 (on rear bottom) 1x USB-C 3.2 Gen 2 (on rear bottom, w/ DP & PD 5 V / 3 A, exc. Atom® x7000RE) 1x USB-C 3.2 Gen 1 (on rear bottom, w/ DP & PD 5 V / 3 A, only Atom® x7000RE) 2x USB-A 2.0 (1x on rear bottom, 1x on rear right) 2x RS232(full signal)/422/485 (DB9 on rear right, COM3 & COM4) 2x RS232(Tx/Rx only)/422/485 (DB9 on rear bottom, COM1 & COM2)
STORAGE & EXPANSION	SATA M.2 SIM CARD HOLDER	1x 2.5" SATA 3.0 HDD / SSD 1x M.2 Key B (Type 2242 / 3042 / 3052 / 2280, w/ PCIe x1 / USB 2.0 / UIM) 1x M.2 Key E (Type 2230, w/ PCIe x1 / USB 2.0 / CNV)** 1x M.2 Key M (Type 2280, w/ SATA 3.0 (default) / PCIe x1 (optional)) 1x SIM Card Holder (optional, by header)
POWER	INPUT VOLTAGE CONNECTOR	DC 13 V ~ 36 V 3-pin Terminal Block (on rear bottom)
FIRMWARE	BIOS WATCHDOG H/W MONITOR REAL TIME CLOCK SECURITY	AMI uEFI BIOS w/ 256 Mb SPI Flash Programmable WDT to generate system reset event Voltages, Temperatures Processor integrated RTC dTPM 2.0 (Infineon SLB 9672)
SYSTEM CONTROL & MONITORING	BUTTON, SWITCH & INDICATOR	1x Power Switch (on rear bottom) 1x Power LED (on rear bottom) 1x Standby LED (on rear bottom) 1x Storage LED (on rear bottom) 1x 2-pin Terminal Block for External Power Button (on rear left)
COOLING	COOLING METHOD	Passive
SOFTWARE	OS SUPPORT	Windows 11, Windows 10, Linux
MECHANICAL	CONSTRUCTION DIMENSION - W DIMENSION - H DIMENSION - D WEIGHT MOUNTING	Panel Module (glass surf. + metal case) + Box Module (metal case + Al heatsink) 521.5 mm (20.53") 316.2 mm (12.45") 88.0 mm (3.46") 6,700 g (14.77 lb) Panel Mount Wall Mount (VESA 100 mm x 100 mm)
ENVIRONMENTAL	OPERATING TEMPERATURE STORAGE TEMPERATURE HUMIDITY	0 °C ~ 50 °C / 32 °F ~ 122 °F -20 °C ~ 80 °C / -4 °F ~ 176 °F 0 % ~ 95 %
COMPLIANCE	EMC INGRESS PROTECTION	CE Class B, FCC Class B, ICES Class B, UKCA Class B IP65 (front)

* TSN support for models with Atom® processors

** Atom® x7000RE Series processors do not support CNV

Ordering Information

ARTICLE	DISPLAY	PROCESSOR	LAN CHIP	TSN	USB-C 3.2
SmartClient-215-ADH-0-N97	21.5" 16:9	Intel® N97	Intel® I226-V	No	1x Gen 2
SmartClient-215-ADH-1-i3-N305	21.5" 16:9	Intel® Core™ i3-N305	Intel® I226-V	No	1x Gen 2
SmartClient-215-AMH-0-x7211RE*	21.5" 16:9	Intel® Atom® x7211RE	Intel® I226-IT	Yes	1x Gen 1
SmartClient-215-AMH-1-x7433RE*	21.5" 16:9	Intel® Atom® x7433RE	Intel® I226-IT	Yes	1x Gen 1

The asterisk (*) means on a per-request basis.
Contact your account manager for other panel size variants.

Accessories

ARTICLE	DESCRIPTION
POWER ADAPTER	Input: AC 90 V ~ 264 V, Output: 19 V @ 4.74 A max. 90 W, open wire
POWER CORD	EU / US / UK / JP / CN / AU type depending on country
PANEL MOUNT 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
WI-FI + BLUETOOTH EXPANSION KIT*	Wi-Fi 2.4 GHz / 5 GHz, Bluetooth 4.0 Class I, M.2 Key A/E, 2x antenna

The asterisk (*) means optional item.

Product Contact Point

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