



# AIO SERIES

## INDUSTRIAL TOUCHSCREEN COMPUTER

COMPACT, INTERACTIVE, AND DURABLE  
SIMPLE APPLICATION SOLUTION FOR HUMAN  
MACHINE INTERFACE (HMI) DEPLOYMENTS



## AIO SERIES ALL IN ONE INDUSTRIAL TOUCHSCREEN COMPUTER

Premio delivers a streamlined all in one touchscreen computer with reliable, versatile, and efficient features.



All In One Integrated  
System



Zero Downtime &  
Upgrades



Efficient Compute  
Performance



Seamless Application  
Integration



## All In One Advanced Design

Premio's AIO Series provides a selection of All In One Touchscreen Computers ranging from 10.1" to 21.5" for simple, reliable, and seamless HMI deployment. With ultimate screen readability and clarity, the AIO All In One Touchscreen Computer is front panel IP65 rated with 7H scratch resistant, and back panel IP41 rated. All while being powered by 12<sup>th</sup> Gen Intel® Alder Lake-N N97 & x7835RE processors



### AIO All In One Touchscreen Computer Features:

- Simplistic All In One Reliable Design
- 12<sup>th</sup> Gen Intel® Alder Lake-N N97 & x7835RE processors
- DDR5 4800MHz up to 16GB
- M.2 Capability for Storage Expansion & Wireless Communication
- Triple Independent Displays (Up to 4K)
- Front Panel IP65 Rated & MIL-STD-810G Method 516.7 Procedure
- CE, FCC Class A, CB, UL Listed, UKCA, IC

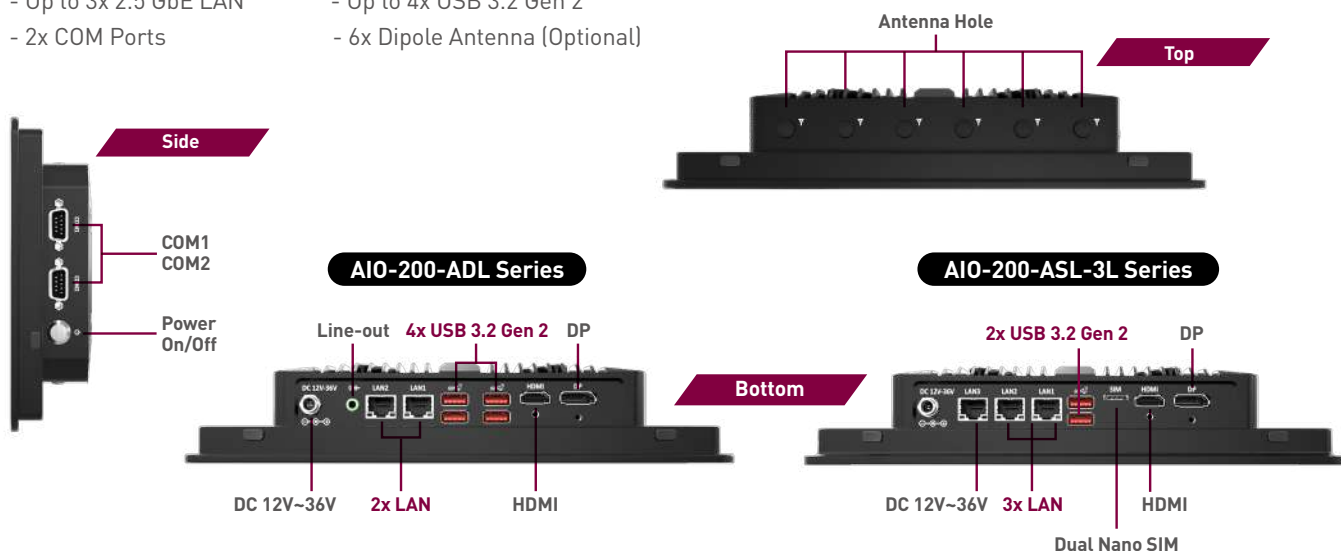


## Versatile Connectivity with Diverse I/O Modules

Designed to meet the complex connectivity needs of Human Machine Interface applications.

The AIO All In One Touchscreen Computer features a comprehensive range of I/O connectivity to ensure comprehensive communication with various devices and peripherals. The key I/O modules include:

- Up to 3x 2.5 GbE LAN
- Up to 4x USB 3.2 Gen 2
- 2x COM Ports
- 6x Dipole Antenna (Optional)



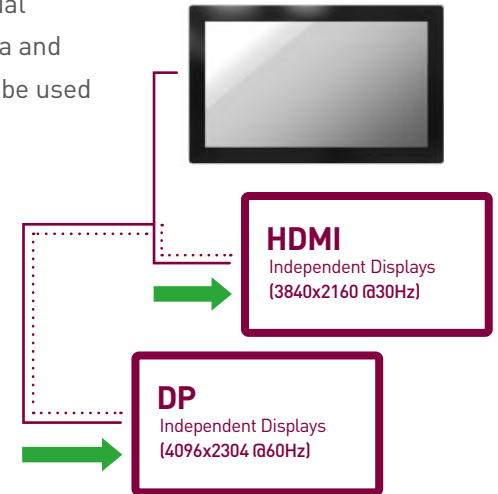


## Triple Independent Displays Support

The All-In-One AIO Panel PC is equipped with Intel® UHD Graphics, enhances visual experiences by supporting triple independent displays, ideal for various multimedia and industrial applications. With the AIO's built-in monitor, the HDMI and DP ports can be used to connect two additional external displays. The display capabilities include:

- **HDMI:** Supports high-definition output up to 3840 x 2160 (4K UHD) at 30Hz.
- **DP:** Delivers ultra-high resolutions up to 4096 x 2304 (Real 4K) at 60Hz.

### AIO-200 Series Display



## Storage and Connectivity M.2 Keys

The AIO Series boosts its capabilities with M.2 slots, enabling advanced expansions for wireless low-latency communication essential in IoT, and SSDs for quick and reliable data storage.

- 1x M.2 B Key 128G SSD default Storage
- 1x M.2 E Key for WiFi 6E/Bluetooth
- 1x Dual SIM slot for 4G/5G (Attached M.2 B Key, AIO-200-ASL-3L Only)



## Harnessing the Power of Intel Efficiency Cores

Leverage the cutting-edge capabilities of Intel® 12th Gen Alder Lake-N N97 and Intel® Atom® x7835RE processors, designed for advanced computing with an optimized balance of performance and energy efficiency. These processors empower the All-In-One (AIO) Panel PC with rapid multitasking and outstanding power optimization, making the AIO Series a perfect solution for industrial HMI applications where performance and sustainability are paramount.

- **12<sup>th</sup> Gen Intel® Alder Lake-N N97:** 4 Efficiency Cores (E-Cores), 3.6 GHz
- **Intel Atom x7835RE:** 8 Efficiency Cores (E-Cores), 3.6 GHz (AIO-200-ASL-3L Only)

### Key Advantages :

- 4 E-Cores/8 E-Cores (Intel 7 Architecture)
- Supports single channel memory
- Low Power Consumption
- Extended Temperature Range





# AIO-200-ADL & AIO-200-ASL-3L Series

## COMPARISON TABLE



Model	AIO-200-ADL Series	AIO-200-ASL-3L Series
Processors	12 <sup>th</sup> Gen Intel® Alder Lake N97	<b>Intel® Atom® x7835RE Processor</b> 12 <sup>th</sup> Gen Intel® Alder Lake N97
Memory	DDR5 4800MT/s SODIMM. Max up to 16GB (Non-ECC), (Default 8GB)	
Display	Triple Independent Displays supported: DP, HDMI, LVDS (Internal) or eDP (Internal)	
I/O	2x 2.5GbE RJ45 4x USB 3.2 Gen 2 (10 Gbps) 2x RS232/422/485 <b>1x Audio Out</b>	<b>3x 2.5GbE RJ45</b> <b>2x USB 3.2 Gen 2 (10 Gbps)</b> 2x RS-232-/422/485
Connectivity	1 x M.2 E Key for Wifi 6E/Bluetooth	<b>1x Dual Nano SIM Socket for 4G/5G (Attached M.2 B Key)</b> 1 x M.2 E Key for Wifi 6E/Bluetooth
LCD Size	10.1" (16:10), 15.6" (16:9), 21.5" (16:9)	
Max. Resolution	Max 1920 x 1080 (Full HD)	
Brightness (cd/m <sup>2</sup> )	Max 500 nits (Optional 1000+ Nits)	
Viewing Angle (H/V)	Max 89/89/89/89	
MTBF	30,000 Hours/50,000 Hours	
Certification	CE, FCC Class A, CB, UL Listed, UKCA, IC	
Operating Temp.	-10°C to 50°C	

# We Create World-Class Edge Computers For Your Industry-Leading Solutions

## AIO-200-ADL Series



Model	AIO-W210-ADL	AIO-W215-ADL	AIO-W221-ADL
	Capacitive All IN One Touchscreen Computer with Intel® Alder lake N97		
CPU Onboard	12 <sup>th</sup> Gen Intel® Alder Lake-N N97 Processor		
Memory	8GB DDR5 4800MT/s SO-DIMM (Up to 16GB)		
Graphic Output	Triple Independent Displays 1x HDMI/1x DP/1x LVDS (Internal) or 1x eDP (Internal)		
LAN	2x i225V 2.5GbE LAN		
I/O	4x USB 3.2 Gen 2 (10Gbps) 2x RS-232/422/485 1x Audio out		
Storage	128G M.2 B Key NVMe SSD		
Expansion	1x M.2 E Key for Wifi 6E/Bluetooth [Optional]		
Power	12-36V DC, DC Jack 5.5mm/2.5mm, 60W/12V Adapter [Optional]		
Operating Temperature	-10°C to 50°C		
Certification	CE, FCC Class A, CB, UL Listed, UKCA, IC		
IP Rating	Front Panel IP65, Back Panel IP54		
LCD Size	10.1" (16:10) WXGA	15.6" (16:9) FHD	21.5" (16:9) FHD
Brightness [cd/m2]	400 nits	400 nits	500 nits
Backlight MTBF	30,000 Hours	30,000 Hours	50,000 Hours
Projected Capactive	10 Point - Capactive		
Surface Hardness	7H / IK07		

# We Create World-Class Edge Computers For Your Industry-Leading Solutions

## AIO-200-ASL-3L Series



Model	AIO-W210-ASL-3L	AIO-W215-ASL-3L	AIO-W221-ASL-3L
	Capacitive All IN One Touchscreen Computer with Intel® Alder lake N97/x7835RE Processor		
CPU Onboard	12th Gen Intel® Alder Lake-N N97 Processor/ Intel® Atom® x7835RE Processor		
Memory	DDR5 4800MHz SO-DIMM. Max. up to 16GB		
Graphic Output	Triple Independent Displays 1x HDMI/1x DP/1x LVDS (Internal) or 1x eDP (Internal)		
LAN	3x i226V 2.5GbE LAN		
I/O	2x USB 3.2 Gen 2 (10 Gbps) 2x RS-232/422/485		
Storage	128G M.2 B Key SSD (Default) 1x SATA 3.0 6Gb/s (Support AHCI)		
Expansion	1x M.2 E Key Support WiFi 6E/Bluetooth (Optional) 1x M.2 B Key Support NVMe/4G/5G (Optional)		
Power	12-36V DC, DC Jack 5.5mm/2.5mm, 60W/12V Adapter (Optional)		
Operating Temperature	-10°C to 50°C		
Certification	CE, FCC Class A, CB, UL Listed, UKCA, IC		
IP Rating	Front Panel IP65		
LCD Size	10.1" (16:10) WXGA	15.6" (16:9) FHD	21.5" (16:9) FHD
Brightness [cd/m2]	400 nits	400 nits	500 nits
Backlight MTBF	30,000 Hours	30,000 Hours	50,000 Hours
Projected Capacitive	10 Point - Capacitive		
Surface Hardness	7H / IK07		

AIO Series

# AIO-200-MX

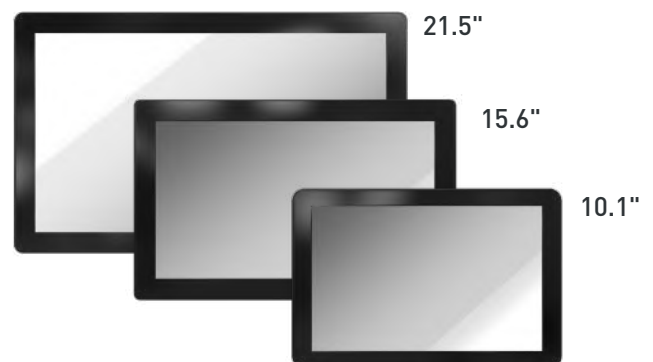
All In One Touchscreen Monitor



The **AIO-200-MX** is a **rugged touchscreen monitor** available in **three sizes**, designed to deliver **industrial-grade durability and precision touch control**. These monitors feature the same **robust construction and high-resolution capacitive touch technology** as the AIO-200-ASL-3L but function solely as display solutions. Without built-in computing hardware, the AIO-200-MX offers the same **reliable and durable screen**, while allowing users to **connect to external computing systems**, providing **greater flexibility** for various industrial applications.

## AIO-200-MX Key Features

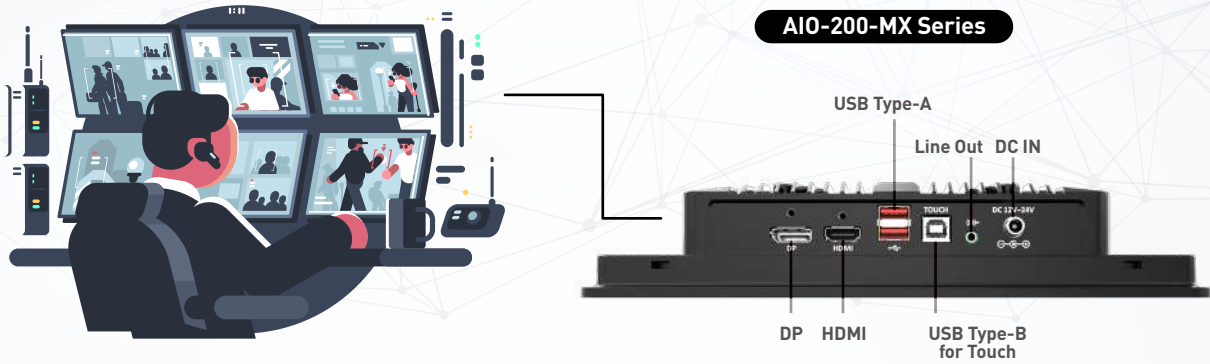
- Three sizes 10.1" 15.6" 21.5"
- IP65-rated front panel for water and dust resistance
- 10-point PCAP capacitive touchscreen for precise touch control
- Scratch-resistant 7H hardness IK07 impact protection
- Dual display output HDMI and DisplayPort (DP)
- Wide operating temperature -10°C to 50°C
- Certified for safety and reliability: CE FCC CB UL UKCA IC



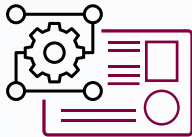
# Seamless Connectivity for Industrial Automation

The AIO-200-MX Series is equipped with versatile I/O ports, ensuring seamless integration into industrial automation and HMI applications.

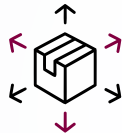
- **HDMI & DP:** Supports high-definition video output
- **2x USB Type A:** Provides convenient access for peripheral connections
- **USB Type-B:** Enables precise and responsive touch control
- **1x Line Out:** Allows external audio output for communication



## Key Applications of the AIO-200-MX Monitor



Industrial Automation & HMI Control System



Logistics Management



Smart Retail & Kiosk



Transit system controls

## AIO-200-MX Monitor Series



	AIO-W210-MX	AIO-W215-MX	AIO-W221-MX
Projected Capacitive	10 Point - Projected Capacitive Touch		
Surface Hardness	7H / IK07		
IP Rating	Front Panel IP65		
LCD Size	10.1" (16:10) WXGA	15.6" (16:9) FHD	21.5" (16:9) FHD
Brightness	400 nits	400 nits	500 nits
MTBF	30,000 Hours	30,000 Hours	50,000 Hours
I/O	1x Display Port 1.1, 1x HDMI 1.4a 2x USB 2.0 Type A, 1x USB Type B for Touch		
Operating Temperature	-10°C to 50°C		
Certification	CE, FCC Class A, CB, UL Listed, UKCA		