

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 Intel 12th Gen Alderlake-N with Premio's advanced single board computer.

AIO All In One Touchscreen Computer Features:

- Simplistic All In One Reliable Design
- Intel® 12th Gen Intel® IoTG Alder Lake-N Processors
- DDR5 4800MHz up to 16GB
- M.2 Capability for Storage Expansion & Wireless Communication
- Triple Independent Displays (Up to 4K)
- Range of Display Sizes with 7H Glass
- Front Panel IP65 Rated



AIO-W210-ADL



AIO-W215-ADL

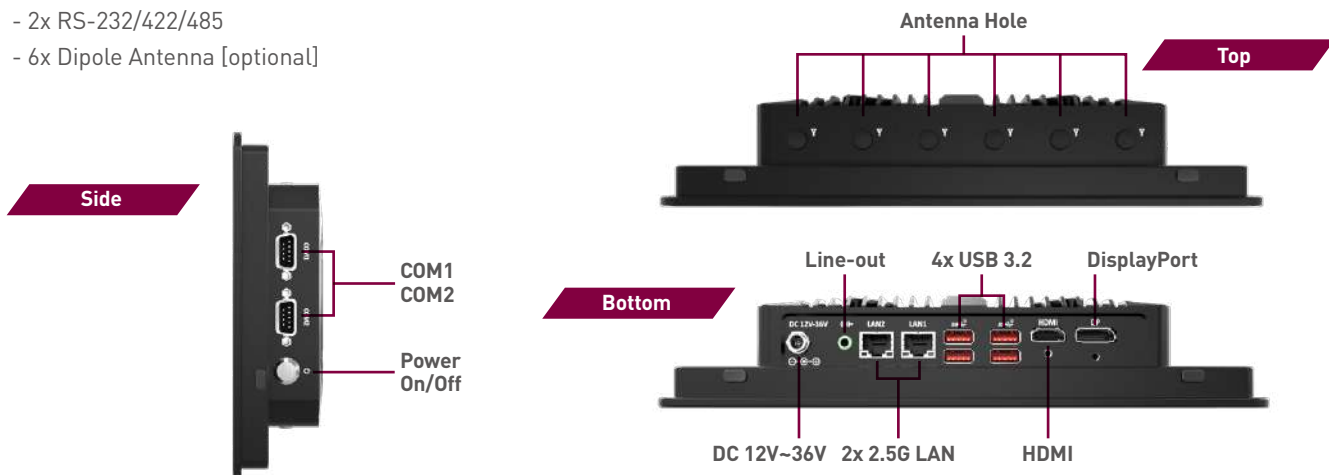


AIO-W221-ADL

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:

- 2x Intel® I225-V 2.5GbE LAN for reliable, high-speed network connections
- 4x USB 3.2 Gen 2
- 2x RS-232/422/485
- 6x Dipole Antenna [optional]

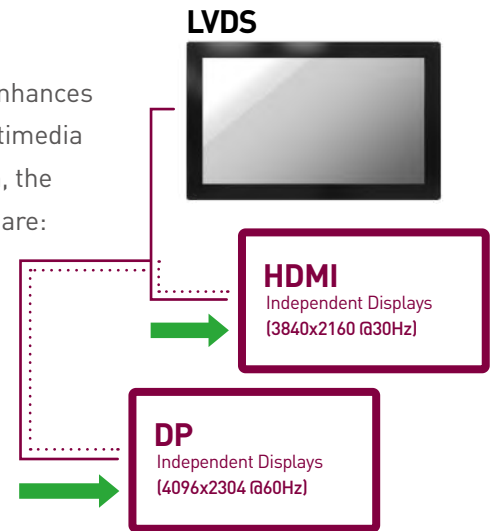




Triple Independent Displays Support

The All In One AIO Touchscreen Computer is equipped with Intel® UHD Graphics, enhances visual experiences by supporting triple independent displays, ideal for various multimedia and industrial applications. With the LVDS port being used the AIO's built-in screen, the HDMI and DP can be used to connect to two separate displays. The display options are:

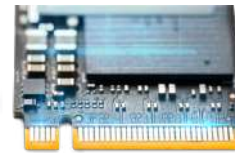
- **HDMI:** Supports high-definition output up to 3840 x 2160 4K UHD @30Hz.
- **DP:** Handles ultra-high resolutions up to 4096 x 2304 Real 4K @60Hz.
- **LVDS:** Up to 1920 x 1200 WUXGA @60Hz for clear, sharp imagery.



M.2 Expansion Capabilities

Tailored for flexible storage and IoT connectivity to meet the evolving demands of modern computing applications:

- **M.2 B Key Interface:** Supports SATA/PCIe x1 in sizes 2242, 3042, and 2280, facilitating high-speed storage solutions
- **M.2 E Key Interface:** Supporting WiFi 6e connectivity



Harnessing the Power of Intel Efficiency Cores

Meeting Edge Processing Performance & Power Efficiency Needs

Embrace the cutting-edge technology of Intel's 12th Gen Alder-N Lake processors with Premio's advanced single board computer. This comprehensive board capitalizes on Intel's innovative architecture, using 4 of the 8 efficiency cores (E-cores, Gracemont Architecture). This elevates the All In One AIO Panel PC, allowing it to have lightning-fast multitasking ability and performance while still having superior and optimal energy efficiency. This makes the AIO Series the ideal choice for many industrial HMI applications where power and sustainability are essential.

Key Advantages :

- 4 E-Cores (Intel 7 Gracemont Architecture)
- Supports single channel memory
- Improve Power Efficiency
- Lower Power Consumption



Advancing Technology with DDR5 Memory Integration

The AIO's motherboard brings a new efficiency level to HMI applications by integrating the latest DDR5 technology. It supports a DDR5 DIMM slot capable of running at 4800MHz, with a maximum capacity of 16GB. This integration of DDR5 ensures stable and high-speed performance, which is vital for handling the rigorous demands of HMI applications at the edge.

**WE DESIGN,
MANUFACTURE, AND
SERVICE CUSTOMERS
AROUND THE WORLD**



AIO SERIES



Model	AIO-W210-ADL	AIO-W215-ADL	AIO-W221-ADL
	Capacitive All IN One Touchscreen Computer with Intel® Alder lake N97/i3-N305 Processor		
CPU Onboard	Intel® Alder Lake N97 Processor / i3 - N305 Processor		
Memory	8GB DDR5 4800MT/s SO-DIMM (Up to 16GB)		
Graphic Output	HDMI / DP / LVDS / eDP		
LAN	2x 2.5GbE I225 LAN		
I/O	4x USB 3.2 2x RS-232/422/485 1x Audio out		
Storage	128G M.2 B Key NVMe SSD		
Expansion	M.2 E Key Wifi, Intel AX210 Wifi 6E [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, CB, UL, 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
Projected Capacitive	10 Point - Capacitive		
Surface Hardness	7H / IK07		