

HIO SERIES

INDUSTRIAL TOUCHSCREEN COMPUTER

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



HIO SERIES OPEN FRAME INDUSTRIAL TOUCHSCREEN COMPUTER

Premio delivers a versatile open frame touchscreen computer with robust, versatile, and efficient features.



Easy Installation &
Maintenance



Long-Term
Reliability



Customizable I/O
Configuration



Efficient Application
Integration



Open Frame Full Screen Industrial-Grade Design

Premio's H10 Series provides a selection of Open Frame Touchscreen Computers ranging from 10.1" to 21.5" for seamless integration for HMI deployments. With ultimate screen readability and clarity, the H10 Open Frame Panel PC is front panel IP65 rated with 7H scratch resistant. All while being powered by Intel 12th Gen Alderlake-N with Premio's CT-DAL01 motherboard.



H10-W221-ADL



H10-W215-ADL



H10-W210-ADL

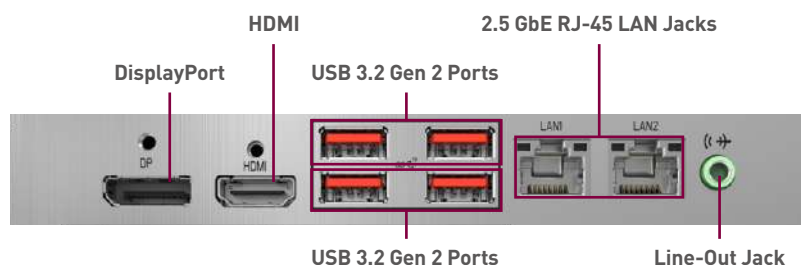
H10 Touchscreen Computer Features:

- Seamless Application Mounting with Open Frame Design
- Range of Display Sizes with 7H Glass
- Intel® 12th Gen Intel® IoTG Alder Lake-N Processors
- Front Panel IP65 Rated
- Diverse I/O Modules
- Triple Independent Displays (Up to 4K)
- DDR5 4800MHz up to 16GB
- M.2 Capability for Storage Expansion & Wireless Communication

Versatile Connectivity with Diverse I/O Modules

Designed to meet the complex connectivity needs of Human Machine Interface applications. The H10 Touchscreen Computer features a comprehensive range of I/O modules to ensure seamless integration and communication with various devices and peripherals. The Open Frame design allows for even more I/O connectivity through the CT-DAL01 motherboard I/O headers. 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
- 6x USB 2.0 by internal header cable for additional connectivity
- 2x RS-232/422/485 by internal cable
- 2x Pifa Antenna (option)

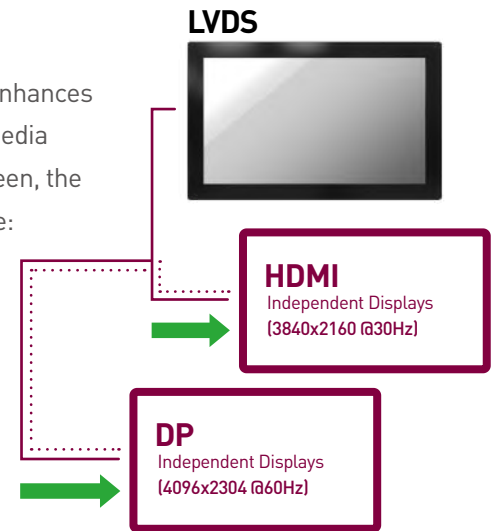




Triple Independent Displays Support

The Open Frame HIO 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 is being used for the HIO's built-in screen, the HDMI and DP can be used to connect to two separate displays. The display options are:

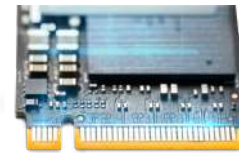
- **HDMI:** Supports high-definition output up to 3840 x 2160 4K UHD @30Hz.
- **DP:** Handles ultra-high resolutions up to 4096 x 2304 Real 4K @60Hz.
- **LVDS:** Up to 1920 x 1200 WUXGA @60Hz for clear, sharp imagery.



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 the CT- DAL01 motherboard. This advanced board capitalizes on Intel's innovative architecture, using 4 of the 8 efficiency cores (E-cores, Gracemont Architecture). This elevates the HIO Open Frame Panel PC, allowing it to have lightning-fast multitasking ability and performance while still having superior and optimal energy efficiency. This makes the HIO 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 HIO'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**



HIO SERIES



Model	HIO-W210-ADL	HIO-W215-ADL	HIO-W221-ADL
	Capacitive Open Frame Touchscreen Computer with Intel® Alder Lake N97 / N305 Processor 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		
LAN	2x 2.5GbE I225 LAN		
I/O	6x USB 2.0 by internal cable, 4x USB 3.2 2x RS-232/422/485 by internal cable 1x Audio out		
Storage	128G M.2 B Key NVMe SSD		
Expansion	M.2 E Key Wifi, Intel AX210 Wifi 6E [Optional]		
Power	9-36V DC, DC Jack 5.5mm/2.5mm, 60W/12V Adapter [Optional]		
Operating Temperature	-10°C to 50°C		
Certification	CE, FCC Class B		
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		