

W27IAD7T-PCA1

27" Intel® Core™ Alder Lake LGA 1700 PCAP Standalone HMI Panel PC



KEY FEATURES

- 12th Gen Intel® Core™ Alder Lake S Socket LGA 1700 i9 / i7 / i5 / i3 processor
- 1920 x 1080 resolution
- Projected capacitive multi-touch screen
- Multi display supports DP / HDMI / LVDS / eDP panel interface
- Multiple I/Os, 1 x Serial Ports, 4 x USB 3.2 Gen2x1 Ports
- A true flat, easy-to-clean front surface with edge-to-edge design
- Front IP65 water and dust proof
- Aluminum housing
- 12V single voltage power input

INTRODUCTION

Winmate Standalone Panel PC (Big size & P-CAP) Series, ranging from 27.5" to 42.5", offers cutting-edge performance and versatility for industrial and commercial applications. Powered by Intel® Core™ processors, these PCs feature a Projected Capacitive Multi-Touch screen, 1920x1080 resolution, and robust aluminum housing. Designed with front IP65 water and dust protection, edge-to-edge easy-to-clean surfaces, and multiple I/Os, including USB and serial ports, these panel PCs are ideal for industrial control, interactive kiosks, and digital signage, delivering reliability and precision in

OVERVIEW



27" Intel® Core™ Alder Lake LGA 1700 PCAP Standalone HMI Panel PC

The 27-inch panel offers a high-resolution display of 1920 x 1080 pixels, ensuring crisp and detailed visuals. With a projected capacitive multitouch screen, users can enjoy smooth and responsive touch interactions, making it ideal for applications requiring intuitive input.

The panel is housed in a durable aluminum casing, providing excellent protection and sturdiness. This ensures long-term reliability even in demanding environments. Additionally, the fanless design eliminates noise and reduces the risk of dust or debris accumulation, making it suitable for various settings. Whether used in industrial automation, digital signage, or interactive kiosks, this 27-inch panel with its high resolution, multitouch functionality, robust aluminum housing, and fanless design offers a reliable and user-friendly solution for a wide range of applications.

Front IP65 water and dust proof

The 27-inch multitouch screen features an impressive IP65 rating, making it resistant to water and dust ingress from the front. This level of protection ensures reliable operation even in challenging environments where exposure to moisture, dirt, or dust is common. With its IP65 rating, the screen can withstand water jets from any direction and is fully protected against the intrusion of dust particles. This makes it suitable for outdoor applications, industrial settings, and other environments where durability and resilience are crucial. The multitouch functionality adds an intuitive and interactive element to the screen, allowing users to navigate, zoom, and interact with content using their fingers. The combination of multitouch capability and IP65 protection makes this screen an excellent choice for applications that require both touch interactivity and resistance to water and dust. Whether used in outdoor kiosks, industrial control panels, or interactive displays, the 27-inch multitouch screen with its IP65 water and dustproof rating offers a reliable and user-friendly solution for various demanding environments.





Enhancing User Experience

The 27-inch multitouch screen is equipped with a powerful Intel® 12th Gen Intel® Core™ Alder Lake S Socket LGA 1700 i9 / i7/ i5 / i3 processor, delivering impressive processing performance. This enables smooth and efficient operation, ensuring seamless multitasking and responsive touch interactions. Whether used in interactive displays, kiosks, or control panels, the combination of the 27inch multitouch screen and the high-performance CPU provides a reliable and user-friendly solution for a wide range of applications.

SPECIFICATIONS

Display

Resolution	1920x1080	Size	27.0 inches
Contrast Ratio	3000:1	Panel Brightness	300.0 nits
View Angles	89,89,89,89	Active Area	599x337 mm
Touch / Glass	Projected Capacitive Multi Touch Screen		

System Specification

WLAN	Support (Optional)	BT	Support (Optional)
Processor	Intel® Core™ i5-12500TE(up to 4.3GHz) Intel® Core™ i9-12900TE(up to 4.80GHz) (Optional) Intel® Core™ i7-12700TE(up to 4.6GHz) (Optional) Intel® Core™ i3-12100TE(up to 4.00GHz) (Optional)	Chipset	Intel® R680E
Memory	2 x SO-DIMM, DDR5 4800 MHz, 8GB 16GB (Optional) 32GB (Optional) 64GB (Optional)	Storage	1 x M.2 2280 M-Key NVMe SSD, 128GB 256GB (Optional) 512GB (Optional) 1TB (Optional) 2TB (Optional)
Ethernet controller	2 x Intel® Ethernet Controller	Security	TPM 2.0
Operating System	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 22.04(Do not support Wake on Touch) (Optional)		

Mechanical

Dimension	675.4 x 413.4 x 64.5 mm	Weight	10.2 kg
Mounting	VESA Mount	Enclosure	Metal Housing
Cooling System	Fan design		

Environment

Operating Humidity	10% to 90% RH, Non-Condensing	Operating Temperature	0°C to 50°C
Storage Temperature	-10°C to 60°C	IP rating	Front IP65

Certification

Certification	CE, FCC
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IO Ports

Power Input	1 x 12V DC, Din4 pin connector	USB Port	4 x USB 3.2 Gen2x1 (10Gbps, TypeA) (R680E/Q670E version) 4 x USB 3.2 Gen1x1 (5Gbps, TypeA) (H610E version)
Serial Port	1 x RS232/422/485 (Default RS232)	Video	1 x DP1.4a DP++ , Max resolution up to 4096x2160@60Hz 1 x HDMI 2.0b , Max resolution up to 4096x2160@60Hz (Optional)
Audio	Mic in Line out	Expansion Port	1 x M.2 2280 M-Key Slot (for NVMe SSD) 1 x M.2 2230 E-Key Slot (for Wi-Fi module)
LAN	2 x 2.5 Giga LAN RJ45 Connector		

Control

Button	1 x Power Button 1 x Reset Button
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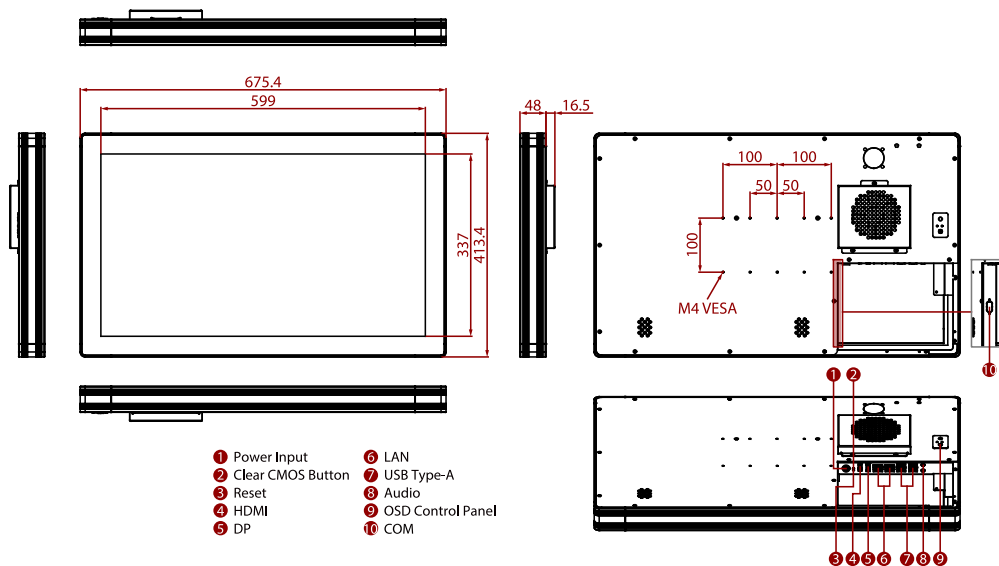
Accessory

Accessory	100~240V AC to DC Adapter Power Cord VESA screws
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Power

Power Rating	12V DC	Adapter	12V 220W
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DIMENSIONS UNIT:MM



NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. Please contact our sales representative if you need further product information.
3. All specifications are subject to change without prior notice.
4. The product shown in this datasheet is a standard model. For diagrams that contain customized or optional I/O, please contact the Winmate Sales Team for more information.