

W43IAD7T-PCA3

43" PCAP Chassis HMI with Intel® Core™ i3/i5/i7/i9



KEY FEATURES

- 12th/ 14th Generation Intel® Core™ i3/i5/i7/i9 (Alder Lake S /Raptor Lake S Refresh) Processor, PCAP Chassis HMI
- Front IP65 for protection against water and dust
- A true flat, easy-to-clean front surface with edge-to-edge design
- VESA mount
- Plenty of I/Os including HDMI/Display Port/USB 3.2 Gen1/RS232 serial port/2.5Gb Ethernet LAN ports

INTRODUCTION

Powered by 12th/14th Gen Intel® Core™ processors, the W43IAD7T-PCA3 is a robust, large-format industrial panel PC featuring a true-flat, IP65-rated PCAP touch screen. It ensures seamless HMI integration in harsh environments with standard VESA mounting and comprehensive high-speed I/O connectivity.

SPECIFICATIONS

System Specification

Processor	Intel® Core™ i3-12100TE(up to 4.00GHz) (Default) Intel® Core™ i5-12500TE(up to 4.3GHz) (Optional) Intel® Core™ i7-12700TE(up to 4.6GHz) (Optional) Intel® Core™ i9-12900TE(up to 4.80GHz) (Optional) Intel® Core™ i3-14100T(up to 4.4GHz) (Optional) Intel® Core™ i5-14500T(up to 4.8GHz) (Optional) Intel® Core™ i7-14700T(up to 5.2GHz) (Optional) Intel® Core™ i9-14900T(up to 5.5GHz) (Optional)	Chipset	Intel® R680E
Memory	2 x non-ECC SO-DIMM RAM, up to 64GB (32GB per DIMM)	Storage	128GB SSD(Default) (Default) 256GB SSD (Optional) 512GB SSD (Optional) 1TB (Optional) 2TB (Optional) 4TB (Optional)
Ethernet controller	2 x Intel® Ethernet Controller	Security	TPM 2.0
Operating System	Windows 10 IoT Enterprise (64 bit) (Optional) Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 24.04(Do not support Wake on Touch) (Optional)		

Display

Resolution	1920x1080	Size	43 inches
Contrast Ratio	3000:1	Panel Brightness	400 nits
View Angles	89,89,89,89	Active Area	940.896×529.254 mm
Touch / Glass	Projected Capacitive Multi Touch Screen		

Mechanical

Dimension	1028.8 x 617 x 64.5 mm	Weight	27.3 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 24V DC, Din4 pin connector	USB Port	4 x USB3.2 Gen1x1 (Type-A)
Serial Port	1 x RS232/422/485 (Default RS232)	Video	1 x HDMI 2.0b , Max resolution up to 4096x2160@60Hz" 1 x DP1.4a DP++ , Max resolution up to 4096x2160@60Hz (Optional)
Audio	1 x Mic in 1 x Line out 2 x Speaker	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 Giga LAN RJ45 Connector	Indicator	1 x LED Indicator for power 1 x LED Indicator for storage

Control

Button	1 x Power Button 1 x Reset Button
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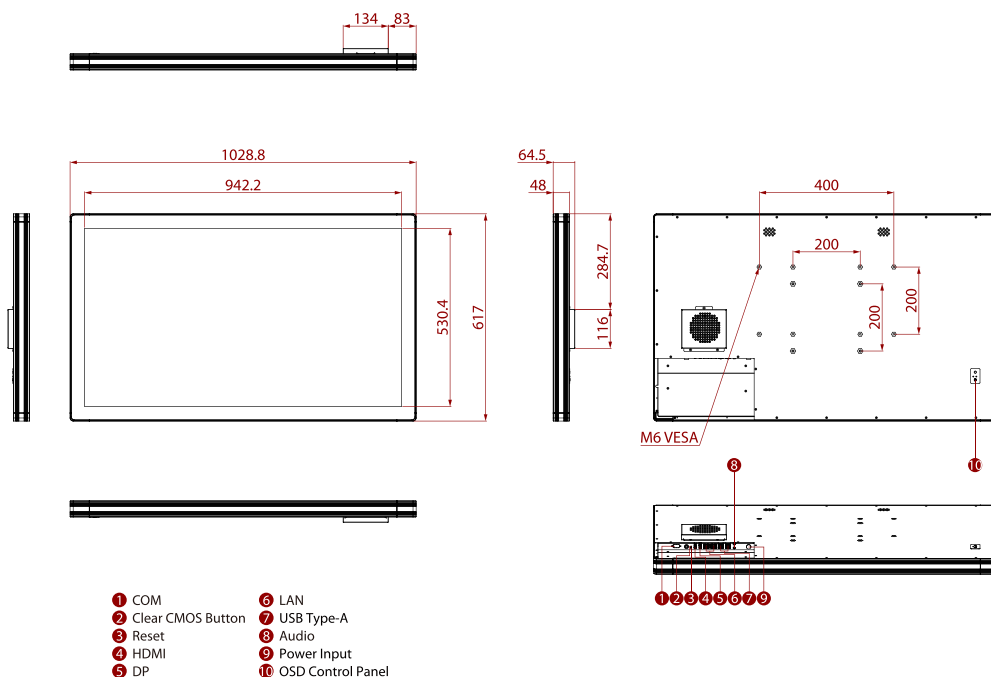
Accessory

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

Power Rating	24V DC (Lockable Power Jack)	Adapter	24V 200W
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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.