

# W22IAN3S-GCA3

21.5" G-WIN GC-Series Front IP65 PCAP Panel PC with Intel® Processor N150



## KEY FEATURES

- 21.5" 1920 x 1080 with P-CAP touchscreen
- Low power consumption with Intel® Processor N150
- Fanless cooling system design
- Front IP65 for protection against water and dust
- A true flat, easy-to-clean front surface with edge-to-edge design
- Plenty of I/O, including 2 x 2.5GbE LAN, 1 x COM, 2 x USB 3.2 Gen 2 x1, 1 x HDMI

## INTRODUCTION

The Winmate W22IAN3S-GCA3 is a 21.5-inch industrial fanless panel PC that utilizes a low-power Intel® Processor N150 to deliver reliable performance in demanding environments. It features a high-resolution 1920 x 1080 true-flat P-CAP touchscreen with an IP65-rated front panel and edge-to-edge design, ensuring excellent protection against dust and water while remaining easy to clean and maintain. Equipped with comprehensive I/O connectivity—including dual 2.5GbE LAN, USB 3.2, and HDMI—this rugged device provides seamless integration for industrial automation and Human-Machine Interface (HMI) applications.

## SPECIFICATIONS

### Display

<b>Resolution</b>	1920x1080	<b>Size</b>	21.5 inches
<b>Contrast Ratio</b>	3000:1	<b>Panel Brightness</b>	250.0 nits
<b>View Angles</b>	89,89,89,89	<b>Active Area</b>	476.64x268.11 mm
<b>Touch / Glass</b>	Projected Capacitive Multi Touch Screen		

### System Specification

<b>Processor</b>	Intel® Processor N150 6M Cache, up to 3.6 GHz	<b>Memory</b>	8GB(Default) (Default) 16GB (Optional)
<b>Storage</b>	128GB SSD(Default) (Default) 256GB SSD (Optional) 512GB SSD (Optional) 1TB (Optional) 2TB (Optional) 4TB (Optional)	<b>Ethernet controller</b>	2 x Intel® 2.5 Gigabit Ethernet Controller
<b>Security</b>	TPM 2.0	<b>Operating System</b>	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Windows 10 IoT Enterprise (64 bit) (Optional) Linux Ubuntu 24.04 (Optional)
<b>WLAN</b>	(Optional)	<b>BT</b>	(Optional)

### Environment

<b>Operating Humidity</b>	10% to 90% (Non-Condensing)	<b>Operating Temperature</b>	0~50°C
<b>Storage Temperature</b>	-30°C~70°C	<b>Shock</b>	MIL-STD-810G Method 516.6
<b>Vibration</b>	MIL-STD-810G Method 514.6	<b>IP rating</b>	Front IP65

## Certification

Certification CE, FCC

## IO Ports

<b>USB Port</b>	2 x USB3.2 Gen2 x 1 (Type-A) 1 x USB 3.2 Gen 2x1 Type C	<b>Serial Port</b>	1 x RS232(Default)/422/485 ((Default RS232)
<b>Video</b>	1 x HDMI 2.0b, Max resolution up to 4096x2160@60Hz (Optional) 1 x USB Type C ,support DP Alt. mode.Max resolution up to 4096 x 2160@60Hz	<b>LAN</b>	2 x 2.5 Giga LAN RJ45 Connector

## Mechanical

<b>Dimension</b>	530.2 x 321.7 x 54.9 mm	<b>Mounting</b>	VESA mount (Default) Panel mount (Optional)
<b>Enclosure</b>	Metal Housing with Plastic Bezel	<b>Cooling System</b>	Fanless Design

## Accessory

<b>Accessory</b>	User Manual(Hardcopy) AC Adapter Power Cable
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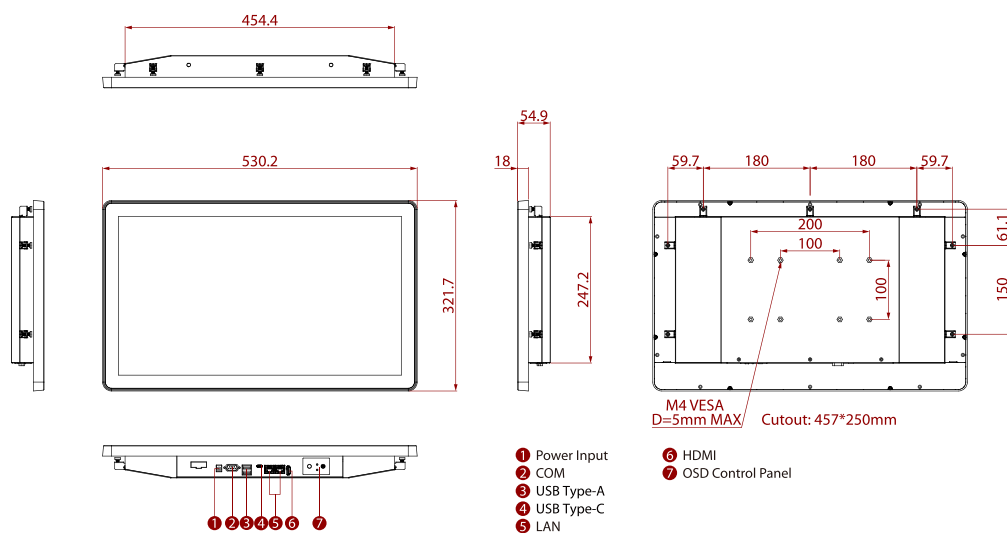
## Control

<b>Button</b>	1 x Power Button 1 x Reset Button
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## Power

<b>Power Rating</b>	12V DC input (Default) 9~36V DC input (Optional)
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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.