W14IAN3S-EHA1

14" E Series HMI Panel PC with Intel® Processor N150

KEY FEATURES

- 14” 1920 x 1080 Resolution with Projected Capacitive MultiTouch (PCAP)
- Intel® Processor N150 6M Cache, up to 3.40 GHz
- Front IP65 Water and Dust Proof
- Dual Gigabit Ethernet
- Fanless cooling system and ultra-low power consumption

INTRODUCTION

Winmate W14IAN3S-EHA1 is a 14-inch E Series HMI Panel PC with Intel® Processor N150 engineered for machine control, factory automation, and operator HMI. It combines Intel® Processor N150, 14-inch display with 1920x1080 resolution, and IP65 to support reliable operation in harsh industrial environments. With Linux, Ubuntu, the W14IAN3S-EHA1 helps OEMs, system integrators, and project teams deploy durable, configurable solutions for demanding field, factory, and mission-critical applications.

SPECIFICATIONS

Display

Touch / Glass	Projected Capacitive Multi Touch Screen	**Resolution**	1920x1080
Size	14.0 inches	**Contrast Ratio**	1200:1
Panel Brightness	700.0 nits	**View Angles**	89,89,89,89
Active Area	309.312x173.988 mm		

System Specification

WLAN	Support (Optional)	**BT**	Support (Optional)
Processor	Intel® Processor N150 6M Cache, up to 3.60 GHz	**Memory**	8GB (Default) 16GB (Optional)
Storage	128GB SSD (Default) 256GB SSD (Optional) 512GB SSD (Optional) 1TB (Optional) 2TB (Optional)	**Ethernet controller**	2 x Intel® 2.5 Gigabit Ethernet Controller
Security	TPM 2.0	**Operating System**	Windows 11 IoT Enterprise (64 bit) (Optional) Windows 11 Pro 64 bit (Optional) Linux Ubuntu 24.04(Do not support Wake on Touch) (Optional)

Mechanical

Dimension	340 x 220 x 62 mm	**Weight**	2 kg
Mounting	Panel mount (Default) VESA mount (Optional)	**Enclosure**	Metal Housing & ABS+PC
Cooling System	Fanless Design	**Cut out**	318.6 x 198.6 mm

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

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Certification

Certification	CE, FCC

IO Ports

Power Input	1 x 12V DC, 2.5φ DC jack	**USB Port**	2 x USB3.2 Gen2x1 (Type-A) 1 x USB 3.2 Gen 2x1 Type C connector,support DP Alt. mode
Serial Port	1 x RS232/422/485 (Default RS232)	**Video**	1 x HDMI 2.0b, Max resolution up to 4096x2160@60Hz (Optional)
Expansion Port	1 x M.2 2230 E-Key Slot (for Wi-Fi module) 1 x M.2 2230 E-Key Slot (for AI Acceleration Card, Only available when NVME SSD is not present)	**LAN**	2 x 2.5 Giga LAN RJ45 Connector

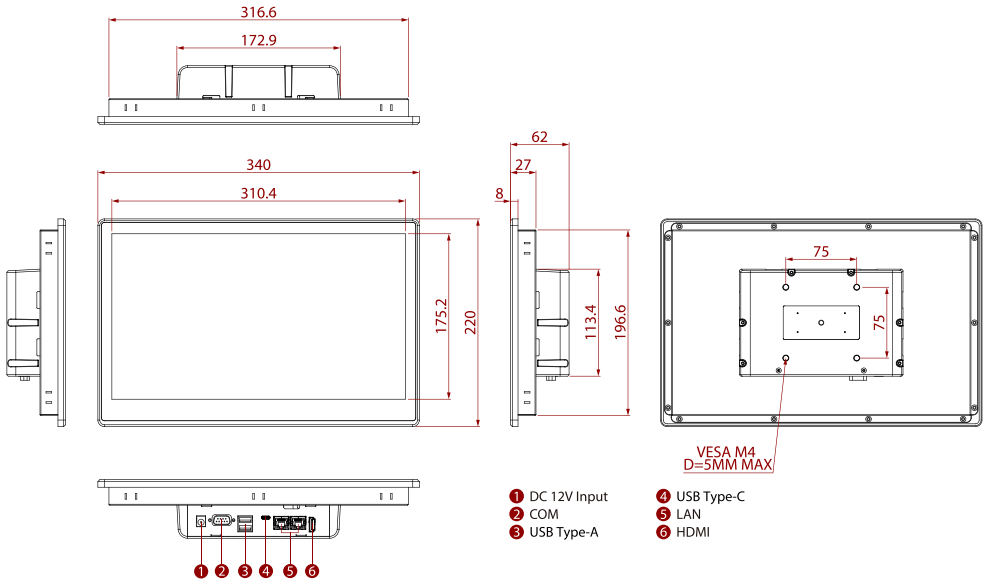
Accessory

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

Power

Power Rating	12V DC	**Adapter**	12V 50W

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.

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