W07IM3S-ELT1

7" ARM A53 EL HMI Panel PC

CE

FC

KEY FEATURES

- Features a 7" display with a 1024 x 600 resolution and a P-Cap multi-touch screen for intuitive interaction.
- Powered by an ARM A53 Quad-Core 2.0GHz CPU for optimal performance.
- Runs on Android 11 for an intuitive HMI panel PC experience.
- Includes 1 x USB, 1 x Micro USB, 1 x RS485, and 1 x RJ45 (LAN) for versatile connectivity.
- Supports both Android and Linux operating systems for flexible application use.

INTRODUCTION

Winmate EL Series HMI offers a versatile and efficient solution for industrial automation and control applications. With display sizes ranging from 4.3" to 15.6", these rectangular, wide-format HMIs feature high-resolution screens and P-Cap multi-touch technology for seamless user interaction. Powered by ARM A53 Quad-Core or NXP i.MX6 Dual-Core processors, they support Android and Linux operating systems for flexible deployment. Key features include fanless design, ultra-low power consumption, IP65-rated front panel protection, and comprehensive connectivity options, ensuring reliable performance in harsh environments.
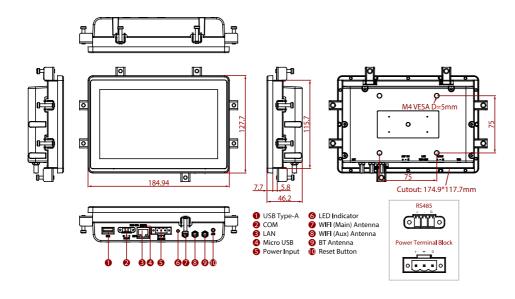
SPECIFICATIONS

Display

Resolution	1024x600	Size	7.0 inches
Contrast Ratio	1000:1	Panel Brightness	320.0 nits
View Angles	75,75,75,70	Active Area	153.6x90 mm
Touch / Glass	Projected Capacitive Multi Touch Screen		

System Specification

Processor	ARM A53 (Quad Core 2.0GHz)	Memory	4GB LPDDR4
Storage	eMMC: Onboard 32 GB	Operating System	Android 11 (Upgradeable to Android 13) Linux Yocto 5.10.104 with QT 5.15 (Optional) Linux Ubuntu Server 22.04 (Optional)
WLAN	Support (Optional)	BT	Support (Optional)

Mechanical

Dimension	185 x 128 x 46 mm	Weight	0.6 kg
Mounting	Panel mount VESA mount	Enclosure	Plastic Housing
Cooling System	Fanless Design	Cut out	174.9x117.7mm

Environment

Operating Humidity	10% to 90% RH, Non-Condensing	Operating Temperature	-20°C to 50°C
Storage Temperature	-25°C to 70°C	IP rating	Front IP65

Certification

Certification	CE, FCC

IO Ports

USB Port	1 x USB 2.0 Type A 1 x Micro USB 2.0 OTG	Serial Port	1 x RS485, 3pin Terminal block
LAN	1 x LAN RJ45 Connector	Indicator	1 x LED Indicator for storage

Accessory

Accessory	Open Wire Cable with terminal block connector Mounting clips VESA screws	Optional Accessory	100~240V AC to DC Adapter Power Cord Terminal Block to 2.5Ø Female Adapter Cable Wi-Fi/BT Antenna

Power

Power Rating	12V~24V with 3Pin Terminal Block	Adapter	12V 36W (Optional)

Control

Button	1 x Reset Button

DIMENSIONS UNIT:MM

127.7
184.94
115.7
7.7   5.8
46.2

M4 VESA D=5mm
75
75
Cutout: 174.9*117.7mm

1. USB Type-A
2. COM
3. LAN
4. Micro USB
5. Power Input
6. LED Indicator
7. WIFI (Main) Antenna
8. WIFI (Aux) Antenna
9. BT Antenna
10. Reset Button

RS485
Power Terminal Block

NOTE

1. This is a simplified drawing and some components are not marked in detail.
2. 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.
3. All specifications are subject to change without prior notice.

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