NORQIN WD01-27177-8128

NORQIN 27-Inch Embedded Industrial Panel PC User Manual

Model: WD01-27177-8128
Brand: NORQIN

1. INTRODUCTION

1.1 Product Overview

The NORQIN 27-inch Embedded Industrial Panel PC is an all-in-one touchscreen computer engineered for demanding industrial environments. It features an industrial-grade front panel with IP65-rated touch protection and a 10-point capacitive G+G touchscreen, ensuring reliable operation in various settings such as smart homes, info kiosks, automation systems, digital signage, and manufacturing facilities.

Designed for stable 24/7 operation, this panel PC is built to strict industrial reliability standards. It comes pre-installed with Windows 11 Pro OS, with optional support for custom systems like Linux, Android, or Ubuntu. The device integrates a high-performance, low-power processor for efficient and consistent performance.

Its compact and slim design allows for neat integration into walls or kiosks, supported by a VESA-compatible mounting system for straightforward installation. The industrial-grade touchscreen is waterproof and dust-resistant, supporting operation with gloves or wet hands. Connectivity is comprehensive, including 4xUSB, 6xCOM (4xRS232, 2xRS485), 2xLAN, 1xHDMI, and WiFi ports, making it suitable for smart workshops, CNC machines, industrial robots, production line management, catering POS systems, and other commercial applications.

1.2 What's in the Box

Please check the contents of your package upon receipt:

- 1 × Industrial Panel PC
- 1 × Power Adapter
- 1 × Power Cable
- 2 × WiFi Antennas
- 2 × Embedded Buckle Kits
- 1 × Warranty Card
- 1 × Wall-mounted VESA Bracket
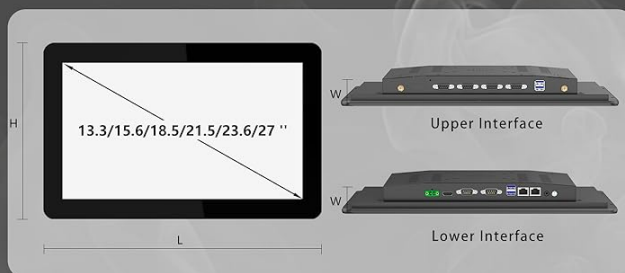
Figure 1: Package Contents

2. SETUP INSTRUCTIONS

2.1 Mounting Options

The NORQIN Industrial Panel PC offers flexible installation options to suit various industrial and commercial environments. It supports VESA mounting (100x100mm) for wall-mounted or desktop stand installations, as well as embedded and snap-in configurations.

- **VESA Mounting:** Use the included VESA bracket to mount the panel PC on a wall or a compatible VESA desktop stand. Ensure the mounting surface can support the device's weight.
- **Embedded/Snap-in Installation:** For integration into kiosks or control panels, utilize the provided embedded buckle kits. Follow the instructions for cutting the appropriate opening and securing the device.

NORQIN Industrial Panel PC with a 16:9 Screen Ratio				
SIZE(Bare Unit)	L(inch)	H(Inch)	W(Inch)	Weight (KG)
13.3 inches	34.6	22.4	4.6	3.34
15.6 inches	40.0	25.4	4.3	4.24
18.5 inches	46.2	28.6	4.8	6.00
21.5 inches	52.7	32.2	4.8	6.52
23.6 inches	57.9	35.4	5.0	7.58
27 inches	66.4	40.3	4.9	9.54

Figure 2: Installation Methods Diagram

2.2 Connecting Peripherals

The panel PC is equipped with a rich array of I/O interfaces for versatile connectivity:

- **Power:** Connect the included power adapter to the DC+12V port and then to a power outlet.
- **Video Output:** Use the HDMI port to connect to an external display if needed.
- **USB Ports:** Utilize the 4xUSB ports (2xUSB 2.0, 2xUSB 3.0) for keyboards, mice, and other USB devices.
- **Serial Ports:** The 6xCOM ports (4xRS232, 2xRS485) are available for industrial control devices.

- **Network:** Connect to a wired network using the 2xLAN ports.
- **Wireless:** Attach the two WiFi antennas to the designated ports for wireless network connectivity.

Rich Interfaces to Meet Different Needs

HDMI;4xUSB; 6xCOM; 2xLAN; 2 External antenna

Upper Interface

WIFI 1   COM *4   USB2.0*2   WIFI 2

Lower Interface

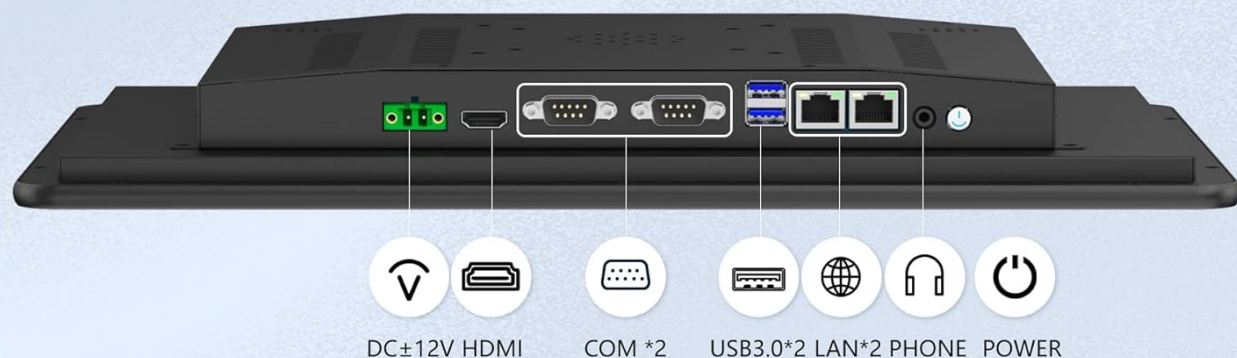DC±12V   HDMI   COM *2   USB3.0*2   LAN*2   PHONE   POWER

Figure 3: Rich I/O Interfaces

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

Press the power button located on the side or rear panel to turn the device on. To power off, use the standard Windows shutdown procedure or press and hold the power button for a few seconds.

3.2 Touchscreen Operation

The 10-point capacitive G+G touchscreen provides smooth and responsive interaction. It supports multi-touch gestures such as reducing, zooming, revolving, writing, erasing, and nudging. The screen is designed for precision, even allowing operation with gloves or wet hands.
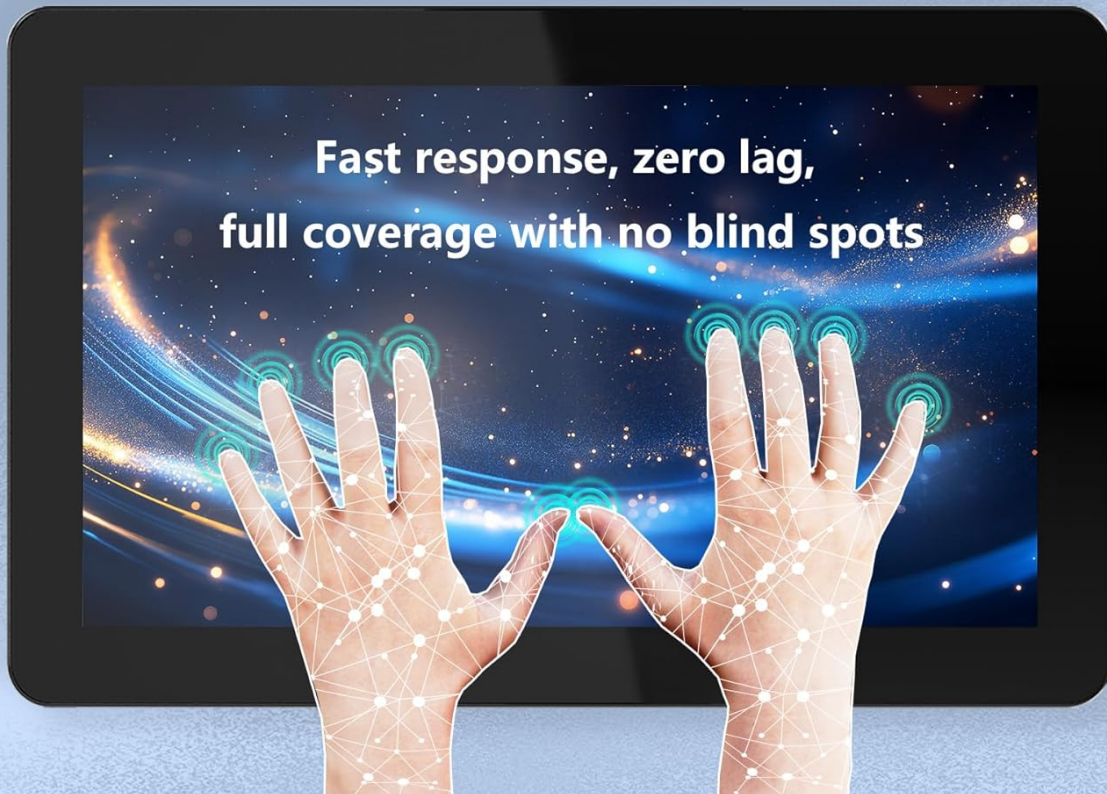
Figure 4: 10-Point Multi-Touch Functionality

3.3 Operating System

The panel PC comes pre-installed with Windows 11 Pro, offering a familiar and robust operating environment. For specialized applications, the device supports optional custom setups with Linux, Android, or Ubuntu.

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Video 1: Overview of the All-in-One Touchscreen Computer, highlighting its IP65 capacitive monitor and various features.

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Video 2: Detailed look at the Embedded Industrial Panel PC, showcasing its design and functionality.

4. MAINTENANCE

4.1 Environmental Considerations

The NORQIN Industrial Panel PC is designed to operate reliably in a wide range of temperatures, from -20°C to 60°C. Its IP65 rating ensures resistance against dust and water ingress, making it suitable for harsh industrial environments.

Figure 5: Wide Operating Temperature Range

4.2 Cleaning the Device

Due to its IP65 rating, the front panel can be wiped with a damp cloth. For the rear chassis, use a dry, soft cloth. Avoid using harsh chemicals or abrasive materials that could damage the screen or casing.

4.3 Heat Dissipation

The device features a built-in cooling fan and back matrix heat dissipation holes to ensure efficient heat management and stable operation, even during continuous use. Ensure these vents are not obstructed to maintain optimal performance.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your NORQIN Industrial Panel PC.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Device does not power on	No power supply; Loose power cable	Check power adapter and cable connections; Ensure power outlet is functional.
Touchscreen unresponsive	Software issue; Screen calibration needed; Physical damage	Restart the device; Recalibrate touchscreen via OS settings; Contact support if physically damaged.
No network connection (WiFi)	WiFi antennas not connected; Driver issue; Network configuration	Ensure WiFi antennas are securely attached; Check device manager for WiFi adapter status; Verify network settings.
System slow or freezing	Overheating; Too many applications running; Low storage	Ensure proper ventilation; Close unnecessary applications; Free up disk space.

If the problem persists after attempting these solutions, please contact NORQIN customer support for further assistance.

6. SPECIFICATIONS

Below are the detailed technical specifications for the NORQIN 27-Inch Embedded Industrial Panel PC (Model WD01-27177-8128):

Feature	Specification
Screen Size	27 Inches
Screen Resolution	1920 x 1080 Pixels (FHD)
Processor	Intel Core i7-7500U (2.7 GHz)
RAM	8 GB DDR4
Hard Drive	128 GB SSD
Graphics Card	Integrated Intel Graphics (8 GB RAM Size)
Operating System	Windows 11 Pro (Supports Linux, PC)
Wireless Type	802.11a/b/g/n/ac (WiFi/BT)
USB Ports	2x USB 2.0, 2x USB 3.0
Other Ports	6x COM (4x RS232, 2x RS485), 2x LAN, 1x HDMI
IP Rating	IP65 (Front Panel)
Power Source	DC 12 Volts
Item Weight	17.16 pounds
Product Dimensions (LxWxH)	26.14 x 15.86 x 1.94 inches

7. WARRANTY AND SUPPORT

7.1 Warranty Information

Your NORQIN Industrial Panel PC comes with a standard manufacturer's warranty. Please refer to the included Warranty Card for specific terms, conditions, and duration of coverage. Keep your proof of purchase for warranty claims.

7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact NORQIN customer support. You can find contact information on the Warranty Card or by visiting the official NORQIN website: NORQIN Store on Amazon.