

# ER-P21W



## FEATURES

- ◆ 12.1" Intel® Processor Core™ Alder Lake
- ◆ 12th Gen i3/i5/i7 & N-series N97
- ◆ Industrial display screen, multi point capacitive touch screen
- ◆ 2\*SO-DIMM DDR4 (up to 64GB supported, max 16GB for N97)
- ◆ 2\*USB 3.0+2\*USB 2.0
- ◆ 1\*RS232 Optional additional 3\*RS232/485/422 on TOP  
(Max 2\*RS485 or 1\*RS485+1\*RS422)
- ◆ 1\*HD/1\*VGA/2\*RJ45/2\*Audio
- ◆ Fanless design

# Specification

## System Hardware

**CPU** Intel® Processor Core™ 12th Gen i3/i5/i7

**Watchdog** 0-255 seconds/grading implemented through system software

**Memory** DDR4 (optional 8/16/32/64GB,max 16GB for N97)

**Storage** M.2 2280 NVME SSD  
(optional 128/256/512GB/1T/2T/4T)

## Display

**LCD Type** 12.1"

**Touchscreen Type** 1280\*800

**Max. Resolution** 12.1" Multi point capacitive touch screen

**Luminance** 300 cd/m2

**Contrast Ratio** 1000: 1

## OS

**OS** Windows 10/11, Ubuntu

## I/O Interface

**USB** 2\*USB3.2, 2\*USB2.0(optional USB3.0)

**Serial port** 1\*RS232  
Optional additional 3\*RS232/485/422 on TOP (Max 2\*RS485 or 1\*RS485+1\*RS422)

**LAN** 2\*1Gbe RJ45(Realtek)

**GPIO** Customizable 4in+4out+VCC+GND

**Audio** 1\*Line out, 1\*MIC in

**Video** 1\*HDMI, 1\*VGA

**Expansion Slot** Optional dual band WIFI/BT,  
optional 4G/5G communication

## Power

**Power Input** Standard Phoenix terminal(Optional Auto power on & 9-36V wide voltage input)

## Environment

**Operating Temp.** 10~60 Degree, Surface air flow

**Storage Temp.** -20~70 Degree

**Humidity** 95% @ 40 Degree, no condensation

**IP Rating** Front panel IP65

**Reliability** MTBF ≥ 30000h; MTTR ≤ 0.5h

**Shock Protection** 10g acceleration, 11ms cycle

**Vibration Protection** 5-17Hz/1.0mm amplitude;  
17-200Hz/1.0g acceleration

## Mechanical

**Dimension (WxHxD)** 15.8mm\*218mm\*52.9mm

**Weight** 3.5kg/3.9kg(N.W./G.W.)

**Color** Black

**Material** All metal fanless design

**Mounting** VESA Installation: 75\*75mm/100\*100mm  
Embedded Installation: 302.10mm\*204.30mm



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