

# WLP-7920-15H

## 15" Wide Temperature Fanless Industrial Panel PC



### Key Features

- Intel Atom D525 1.8G CPU
- Fanless industrial panel PC w/ reliable thermal design
- 15" 4:3 XGA 1024x768 1000 nits LED backlight
- Wide Temperature -20~65°C
- Front IP66 panel mount housing
- Mini PCIe sockets for WLAN & other add-on expansions
- Robust metal housing and HDD anti-vibration design
- Flexible customization for specific application requests
- 1000 nits optical bonding sunlight readable 15" LCD Panel
- Resistive touch panel w/ anti UV treatment

### Storage

**HDD** 2.5" SATA HDD drive bay x 1 + anti-vibration kit, 100G wide temp. (-40~85°C)

**Expansion slot** Mini PCIe x 1 (52 pin card-edge type)

### I/O & Control Keys

**USB** USB 2.0 x 3  
**COM** DB-9 x 3 (RS232 x 2, RS232/422/485 <w/ auto flow control>)  
**LAN** RJ-45 x 1, Gigabit  
**Audio** Line-out, Microphone-in (3.5 mm phone-jack)  
**VGA output** DB-15 x 1  
**Power input** DC-in x 1, 12V~28V  
**Control keys**

- Rear bottom: Power on/off, reset
- Brightness adjustment through Wincomm's SW utility

**LED indicator**

- Right side: System power on: green, HDD accessing: orange
- Left side: self-preheating on: red

### Power

**Power adaptor** External, 60 watts, 100~240V AC in, 12V DC out, 1.2m DC cable  
**Power consumption** 50 watts (typical, without any add-ons)

### Mechanical & Environmental

**Housing**

- Standard: Panel mount
- Customization: Open frame & chassis

**Housing materials**

- SECC metal housing (black color)
- Panel mount bezel: Aluminum (black or silver), optional stainless steel

**IP rating** IP66 – front side (for panel mount housing)  
**Cooling** Fanless w/ internal heat sink / pipe & external aluminum fin plate  
**Mounting** VESA 75 x 75 / 100 x 100 mm  
**Dimension** 398 x 330 x 58 mm (W x H x D, panel mount)  
**Weight (net)** 6.6 Kg (approximate, w/o power adaptor)  
**Temperature**

- Operating : -20°C~65°C (w/ air flow) / -20°C~50°C (no air flow)
- Storage : -30°C~70°C

**Humidity** Operating & storage – 10%~90%, non-condensing  
**Regulatory** FCC-A, CE(EMC), VCCI

### Main System

|                   |  |
|-------------------|--|
| <b>CPU</b>        | Atom D525 1.8G   |
| <b>FSB</b>        | 800MHz   |
| <b>Chipset</b>    | South bridge: Intel® ICH8M   |
| <b>Graphic</b>    | Analog CRT up to 2048x1536, support for CRT hot plug<br>**18/24-bit single/dual-channel LVDS by Xilinx XC3S200AN, resolution support up to 800x600, 1024x768, 1280x1024, 1920x1080** |
| <b>Memory</b>     | 4GB maximum, x 2 DDR3 SODIMM, 1066/1333MHz, 2GB/4GB wide temp. (-40~85°C)  |
| <b>Serial ATA</b> | SATA II controller (3.0Gb/sec) Port x 2  |
| <b>USB</b>        | <b>External</b> USB 2.0 type A x 3<br><b>Internal</b> Mini-PCIe x 1 (for Wifi)<br>3.3V socket x 2 (for Blue tooth)<br>5V Pin Head to expansion x 2                                   |
| <b>COM</b>        | RS232/422/485 x 1 (Support RS485 Auto flow control). RS232 x 2   |
| <b>Audio</b>      | Realtek ALC262 audio codec, 2+2 watts amplifier  |
| <b>LAN</b>        | Marvell 88E8071 Gigabit Ethernet x 1   |
| <b>BIOS</b>       | • AMI BIOS, 16M EEPROM<br>• RTC wake up / Wake on LAN / Power on after power failure / PnP / ACPI  |

### LCD Panel

|                              |                   |
|------------------------------|-------------------|
| <b>Size</b>                  | 15" 4:3           |
| <b>Resolution (pixel)</b>    | XGA 1024 x 768    |
| <b>Brightness (cd/m2)</b>    | 1000 nits         |
| <b>Contrast</b>              | 600:1             |
| <b>Number of Colors</b>      | 16.2M colors      |
| <b>View Angle (H/V)</b>      | 160 (H) / 150 (V) |
| <b>Response time</b>         | 8 ms (R + F)      |
| <b>Backlight / life time</b> | LED               |

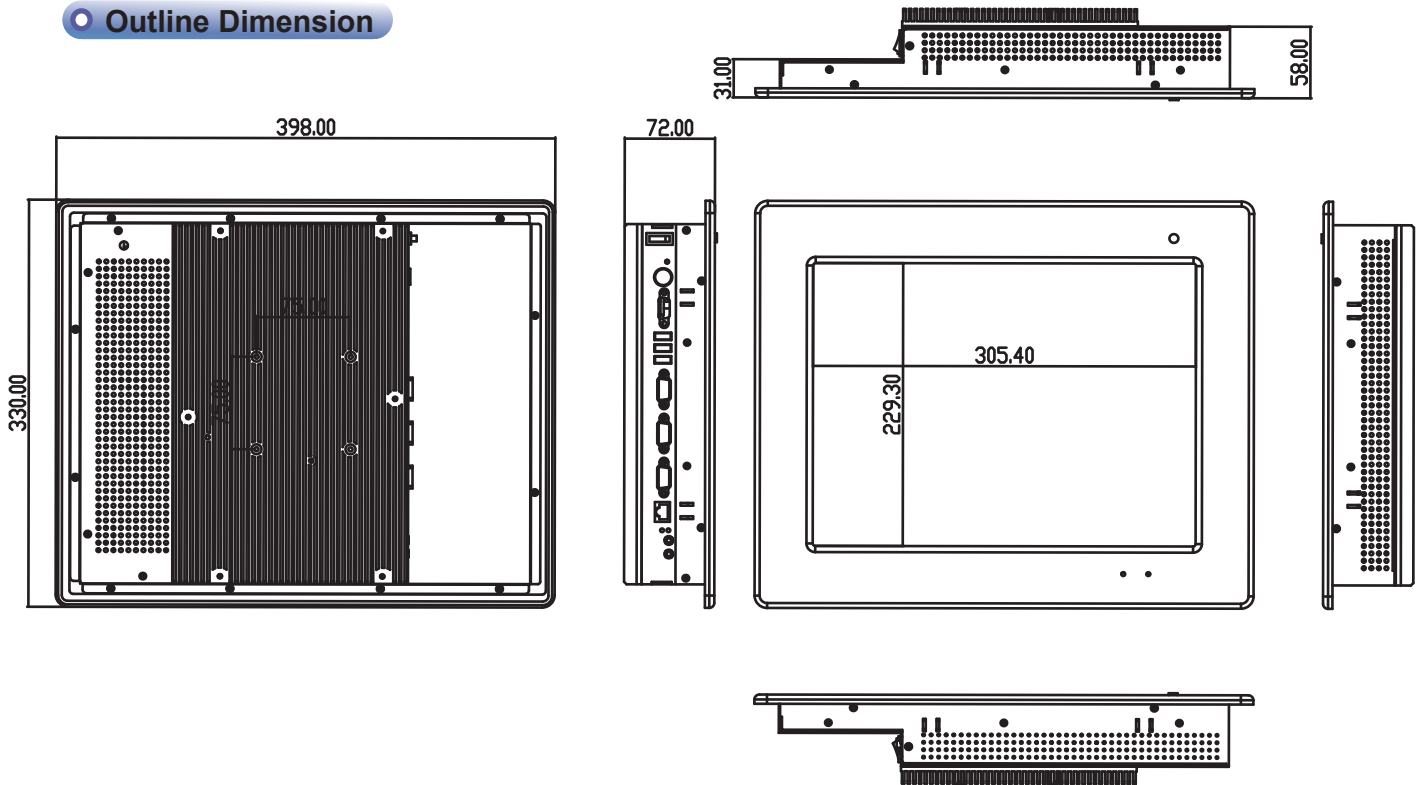
### Touch Panel

|                        |                                  |
|------------------------|----------------------------------|
| <b>Technology</b>      | Resistive touch, 5-wire          |
| <b>Optical Bonding</b> | 1mm thickness, >95% transmission |
| <b>Hardness</b>        | 7H + Anti UV                     |
| <b>Lifetime</b>        | 36 million activations           |

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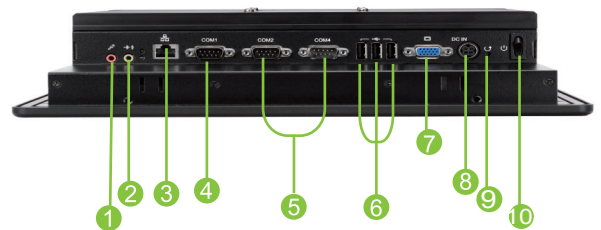
## Outline Dimension



## Packaging / Options / Customization

- Packaging** System, power adaptor, AC power cord, CD (drivers & manual)
- Options**
- . WLAN – 802.11 a/b/g/n mini PCIe module w/ external antenna x 1
  - . Stainless steel panel mount bezel
  - . Silver color panel mount bezel
  - . Change resistive touch to capacitive touch
- Customization**
- . Open frame housing
  - . Chassis type housing

## I/O Connectors



- |                 |                |
|-----------------|----------------|
| ① Microphone-in | ⑥ USB x 3      |
| ② Line out      | ⑦ VGA          |
| ③ LAN x 1       | ⑧ DC-in        |
| ④ RS232/422/485 | ⑨ Reset        |
| ⑤ RS232 x 2     | ⑩ Power on/off |

## Product Photo



## Ordering Information

- CPU: Atom D525 1.8G
- Memory: 2G / 4G Wide Temp.
- Touch: Resistive / Capacitive
- HDD: 100G SATA (Wide Temp) / 64G MLC (Wide Temp)
- Panel mount bezel: Black / Silver / Stainless steel
- WLAN: None / x 1



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