



WLPM-900 Series

Modular Panel PC 15"/17"/19"/22"/24"



Features

- Intel® Coffee Lake-S Core™ Processors
- Modular Panel Size from 15"/17"/19"/22"/24"
- Front IP66 Waterproof and Dustproof, Panel Mount
- Fanless with Smart Thermal Control
- Full Flat Design with Resistive or P-cap Touch
- CE, FCC, VCCI Class B Certified
- Optional Expansion Slot PCIe16
- Optional AI Vision Accelerator Card Ready

Brief Introduction

The Modular Panel PC WLPM-900 Series with CE/FCC/VCCI class B certified are designed to suit industrial modular solutions. Featuring in flexible panel modular which is combined WLP box PC with panel size ranging from 15" to 24" to be easily installed, lower overall maintenance fee and scalable capability. Designed with front IP66 waterproof and dustproof make it convenient for factory operations easy to clean. Built with high performance computing power and wide operation temp. with customization capability, WLPM-900 series could fully provide best performance for industrial automation, factory control, surveillance, smart kiosk, military, communication centers and versatile applications..

Specification

Main System

- ◆ **CPU** Intel® 9th Gen Coffee Lake-S Core™ Core i7/i5/i3 Processors, 2.2~3.6 GHz, 35 W (w/Q370 Chipset)
- ◆ **Graphic** Intel® UHD Graphics 630
- ◆ **Memory** Two 2666 MHz DDR4 SODIMM socket support dual Channel, non-ECC, up to 32GB
- ◆ **OS Support** Win 10

I/O Ports

- ◆ **USB** USB 3.1 x 4
- ◆ **COM** RS232 x 2, RS232/RS422/RS485 x 1
- ◆ **LAN** RJ-45 x 2
- ◆ **Audio / Video** Line-out, and Mic-in / DP1.2 x 3

Environment & Mechanical

- ◆ **Temperature** Operation: 19V DC Input 0~50°C
Storage: -20~65°C
- ◆ **Humidity** 10%~90%, non-condensing
- ◆ **Front Panel IP** IP66 Front
- ◆ **Impact Protection** IK05
- ◆ **Housing** Front Bezel: Aluminum / Others: SECC
- ◆ **Mounting** Panel mount, VESA (75x75)

Storage & Expansion

- ◆ **Storage** 1 x 2.5" SATA SSD
1 x M.2 M.Key 2280 PCIe4 for NVMe SSD
- ◆ **Expansion** 1 x M.2 Key E 2230 w/ PCIe1, USB2.0 and CNVI for Wireless
1 x mini-PCIe for Full/Half w/ PCIe1 and USB2.0
1 x PCIe16 (25W max.)

Power

- ◆ **Power Input** DC19~28V
- ◆ **Power Adapter** 150W (PSU with PSE)

Certification

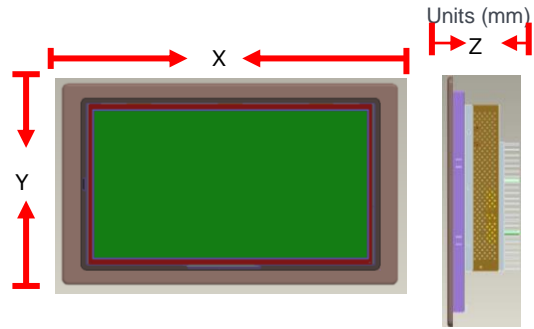
- ◆ **CE, FCC, VCCI Class B**

Display Panel Modules

| Display Module Model Name | WLPMD-15 | WLPMD-17 | WLPMD-19 | WLPMD-22 | WLPMD-24 | |
|---------------------------|----------------------|--------------------------------------|-----------------------|-----------------------|-----------------------|-------------------|
| LCD Panel | Size / Aspect Ratio | 15", 4:3 | 17", 4:3 | 19", 5:4 | 21.5", 16:9 | 23.8", 16:9 |
| | Resolution | 1024 x 768 (XGA) | 1280 x 1024 (SXGA) | 1280 x 1024 (SXGA) | 1920 x 1080 (FHD) | 1920 x 1080 (FHD) |
| | Max. Color | 16.2M | 16.2M | 16.7M | 16.7M | 16.7M |
| | View Angle (H/V) | 160 / 160 | 170 / 160 | 170 / 160 | 170 / 160 | 178 / 178 |
| | Brightness (cd/m2) | 450 | 350 | 350 | 250 | 250 |
| | Contrast Ratio | 800 : 1 | 1000:1 | 1000:1 | 1000 :1 | 3000 : 1 |
| Touch Panel | Type | Full Flat Resistive / Optional P-Cap | | | | P-Cap |
| | Light Transmission | 80±5% / P-Cap: >=86% | 80±5% / P-Cap: 90±3% | 80±5% / P-Cap: 90±3% | 80±5% / P-Cap: >=86% | >=85% |
| | Hardness / Life Time | 3H/35M P-Cap: 7H/100M | 3H/36M P-Cap: 7H/100M | 3H/35M P-Cap: 7H/100M | 3H/35M P-Cap: 7H/100M | 7H/100M |

Dimensions

| System Dimension | | | |
|------------------|-------|-------|-------|
| Units (mm) | X | Y | Z |
| 15" XGA | 398 | 330 | 123.9 |
| 17" SXGA | 426.2 | 358.6 | 125 |
| 19" SXGA | 495.5 | 384.7 | 131.4 |
| 22" FHD | 584.3 | 364.6 | 121.4 |
| 24" FHD | 653.7 | 412 | 121.4 |



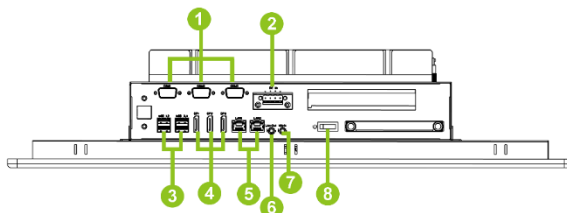
Major Options

| Add On Parts | Options |
|--------------|--|
| | 1. Wireless and BT kit (2 ant) |
| | 2. Projected Capacitive Touch screen |
| | 3. Stainless Front Bezel |
| | 4. Silver front bezel |
| | 5. TPM 2.0 |
| | 6. Chassis Type Housing |
| | 7. Open Frame Housing |
| | 8. M.2 NVMe SSD |
| | 9. Cable Tie Bracket |
| | 10. mPCIe AI Core X (VPU *1, Intel Movidius Myriad x 2485) |
| | 11. USB 2.0 X 2 |
| | 12. PCIe Riser Card (X16) |
| | 13. 2nd HDD for RAID 0,1 |

Order Information

| Item | Touch | Description |
|----------------|------------------------|---|
| WLPM-915-MBKFT | Full Flat Resis. touch | 15" Core i5-9500TE / DDR4 4G RAM/ 128G SSD/ Fanless |
| WLPM-915-MBKPT | Full Flat P-cap. touch | 15" Core i5-9500TE / DDR4 4G RAM/ 128G SSD/ Fanless |
| WLPM-922-MBKFT | Full Flat Resis. touch | 21.5" Core i5-9500TE / DDR4 4G RAM/ 128G SSD/ Fanless |
| WLPM-922-MBKPT | Full Flat P-cap. touch | 21.5" Core i5-9500TE / DDR4 4G RAM/ 128G SSD/ Fanless |

WLPM-900 I/O Ports



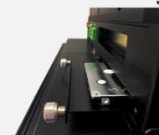
- 1 COM x 3
- 2 DC-in
- 3 USB3.1 x 4
- 4 DP x 3
- 5 LAN x 2
- 6 Line-out
- 7 Micro-in
- 8 On / Off

Min. Ventilation Grille



Avoid Dust for Long Time Usage

Accessible 2.5" HDD/SSD bay



Easy to Replace and Get to the 2.5" Storage