



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 WLPM 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, Win 11

I/O Ports

- ◆ **USB** 4 x USB 3.1
- ◆ **COM** 2 x RS232, 1 x RS232/RS422/RS485
- ◆ **LAN** 2 x RJ-45
- ◆ **Audio / Video** Line-out, and Mic-in / 3 x DP1.2
- ◆ **Control Key** Rear Bottom: Power on/ off

Environment & Mechanical

- ◆ **Cooling** Fanless
- ◆ **Temperature** Operation: 19V DC Input 0~50°C
Storage: -20~65°C
- ◆ **Humidity** 10%~90%, non-condensing
- ◆ **IP & IK Rating** IP66 Front/ 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 (30W max.)

Power

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

Certification

- ◆ **CE, FCC, VCCI Class B, Canada ICES-003**

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)	350	350	350	250	250
	Contrast Ratio	800 : 1	1000:1	1000:1	1000 :1	3000 : 1
Touch Panel	Type	Full Flat Resis. / Optional P-Cap		Full Flat Resis.	Full Flat Resis. / Optional P-Cap	P-Cap
	Light Transmission	Resis.: 80±5% / P-Cap: >=86%	Resis.: 80±5% / P-Cap: 90±3%	80±5%	Resis.: 80±5% / P-Cap: >=86%	>=85%
	Hardness / Life Time	Resis.: 3H/35M P-Cap: 7H/100M	Resis.: 3H/36M P-Cap: 7H/100M	3H/35M	Resis.: 3H/35M P-Cap: 7H/100M	7H/100M

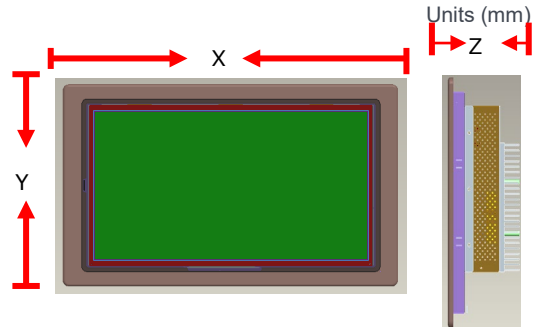


WLPM-900 Series

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

Dimensions

Units (mm)	System Dimension		
	X	Y	Z
15" XGA	398	330	123.9
17" SXGA	426.2	358.6	124.7
19" SXGA	495.5	384.7	131.3
22" FHD	584.2	364.6	121.4
24" FHD	653.7	412	121.3



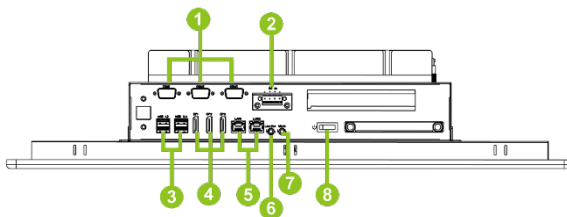
Major Options

Options	<ol style="list-style-type: none"> 1. Wireless and BT kit (2 ant) 2. Projected Capacitive Touch screen (15", 17", 22") 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. PCIe x4 AI CORE XP4/ XP8 (Intel Movidius 2 x AI Core XM 2280 / 4 x AI Core XM 2280) 12. USB 2.0 X 2 13. PCIE Riser Card (X16)
Customization	<ol style="list-style-type: none"> 1. 2.5" HDD 2. 2nd 2.5" SSD for RAID 0,1 3. WDT AP/API

Order Information

Item	Touch	Description
WLPM-915-MBKFT	Full Flat Resis.	15" Core i5-9500TE 2.2GHz/ 4G RAM/ 128G SSD/ Panel mount
WLPM-917-MBKPT	Full Flat Resis.	17" Core i5-9500TE 2.2GHz/ 4G RAM/ 128G SSD/ Panel mount
WLPM-919-MBKFT	Full Flat Resis.	19" Core i5-9500TE 2.2GHz/ 4G RAM/ 128G SSD/ Panel mount
WLPM-922-MBKFT	Full Flat Resis.	21.5" Core i5-9500TE 2.2GHz/ 4G RAM/ 128G SSD/ Panel mount
WLPM-924-MBKPT	Full Flat P-cap.	23.8" Core i5-9500TE 2.2GHz/ 4G RAM/ 128G SSD/ Panel mount

I/O Ports



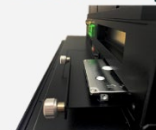
- 1 COM x 3
- 2 DC-in
- 3 USB3.1 x 4
- 4 DP x 3
- 5 LAN x 2
- 6 Line-out
- 7 Micro-in
- 8 On / Off

Min. Ventilation Grille



Avoids Dust for Long Time Usage

Accessible 2.5" HDD/SSD bay



Easy to Replace and Get to the 2.5" Storage