

Powerful. Beautiful.

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IAM21121

IAM22121

IAM24121



Shanghai Panelmate Electronics Co., Ltd.

12.1" XGA ARM Series Industrial Panel PC

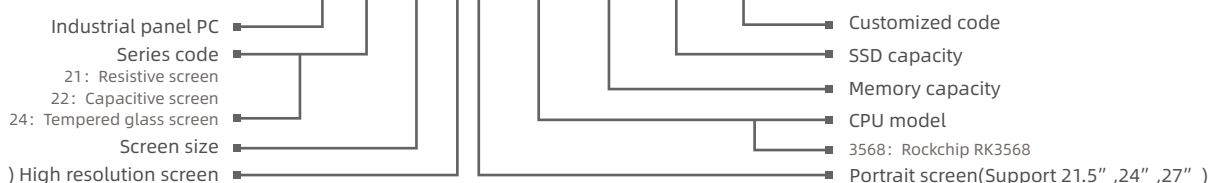


Features

- Display type: 10.1",10.4",11.6",12.1",12.2",15",15.6",17",17.3",18.5",19",21.5",24",27"
- Front panel/back cover: Aluminium-magnesium alloy
- IP: Front panel IP65 / Rear cover IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Tempered glass screen
- Rockchip RK3568 low power processor
- OS:Android 11, ubuntu20.04, etc
- Built-in miniPCIe slot
- Integrated WIFI antenna, stable signal reception
- DC 12~24V
- Extendable WIFI, 4G, 5G

Namely Rule

IAM22XXXHP-3568-2G-32G-xxxx

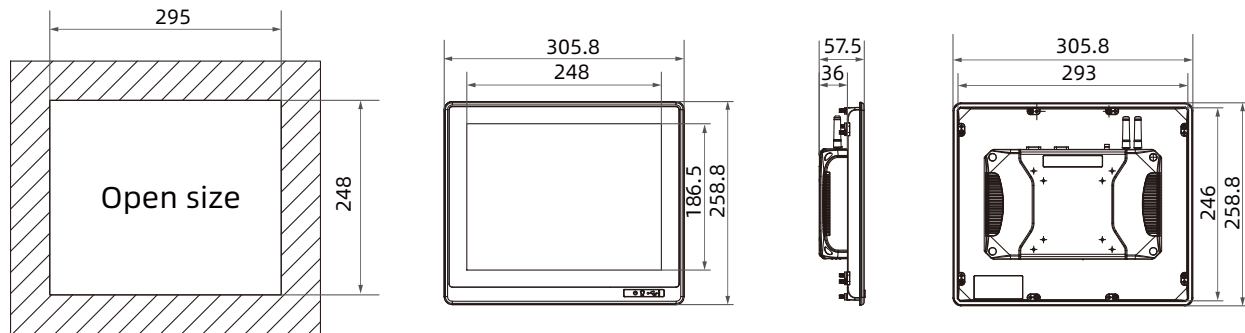


Specifications

Model		IAM21121 & IAM22121 & IAM24121
Processor	CPU	Rockchip RK3568
	Frequency	Quad core 2GHZ
	chipset	Mail-G52 GPU
	Memory	2 / 4 / 8 GB
	Storage	eMMC 32 / 64 / 128GB
I/O	LAN	2xRJ45
	USB	2 x USB3.0 + 2 x USB2.0 (Side mounted)
	COM	2xRS232/RS485 with surge protection, RS485 supports automatic flow control
	Expansion Slot	1xmini-PCIe X1 card slot with Sim card slot supporting 4G LTE/WIFI/BT
	Rear I/O	1 x HDMI/2 x RJ45/4 x USB/2 x COM/DC IN/Power Switch/1 x WIFI Bluetooth antenna/Ground/GPIO/2 x CAN/3 x LED
Power	Input Voltage	DC 12~24V
Physical	Video Port	HDMI (Side mounted)
	Dimension (WxHxD)	305.8mm x 258.8mm x 57.5mm (12.04"x10.19"x2.26")
	Open Size (WxH)	295mm x 248mm (11.61" x 9.76")
	Mounting	Embedded;Wall-mounted;VESA
LCD	Display Type	12.1" XGA TFT
	Resolution	1024x768
	Colors	16.7M
	Active Area (WxH)	245.76mmx184.32mm (9.68"x7.26")
	Backlight	LED
	MTBF (hour)	50000hrs
	Pixel Pitch (HxV)	0.24x0.24
	Luminance(cd/m2)	350cd/m2
	Contrast Ratio	800:1
Touchscreen	Viewing Angle	(L) 80/ (R) 80/ (U) 80/ (D) 80
	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Tempered glass screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Android 11, ubuntu20.04
	Multi-touch	10 points
	Surface Hardness	Resistive touchscreen: Mohs' Number>= 3H; Capacitive touchscreen: Mohs' Number 7H
Environment	Operating Temperature	-20~70°C
	Storage Temperature	-30~80°C
	Relative Humidity	5~95% (Non condensation)
	Shock	Operating 10G peak acceleration(11 ms duration), follow IEC 60068-2-27
	Vibration	Operating Random Vibration Test 5~500Hz, 1Grms@with HDD;2Grms@with SSD, follow IEC 60068-2-64
	EMC	CE/FCC Class B
	Front Panel Protection	IP65

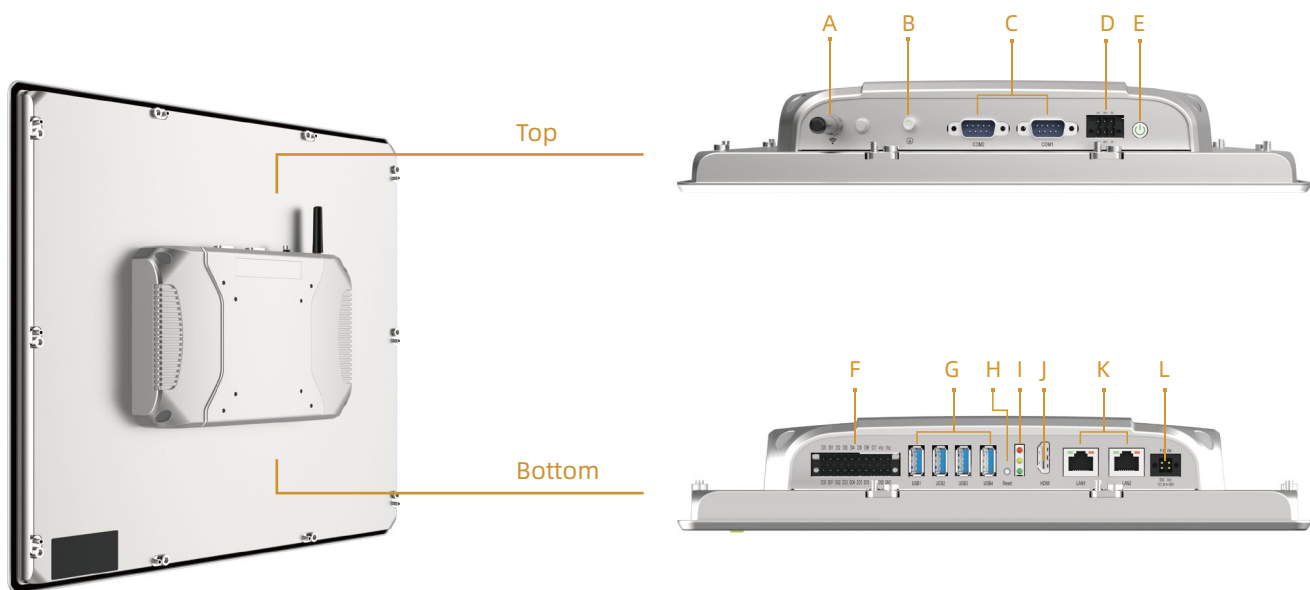
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Technical Drawings unit: mm



Panel Cutout Dimensions: 295 x 248mm (11.61 x 9.76in)

External I/O View



A: WIFI&Bluetooth antenna B: Ground C: 2 x COM D: 2 x CAN E: Power Switch F: GPIO
G: 2 x USB3.0 + 2 x USB2.0 H: RESET I: Status light J: HDMI K: 2 x RJ45 L: DC IN

Ordering Information

Part Number	Description
IAM21121-3568-2G-32G	12.1" TFT LCD / Resistive touch screen / No extension button / DC 12~24V Input / Resolution 1024x768 / RK3568/ 2G RAM / eMMC 32G / 2xLAN / 4xUSB / 1xHDMI/ 2xCAN / 2xCOM/ 16pin GPIO
IAM22121-3568-2G-32G	12.1" TFT LCD / Capacitive touch screen / No extension button / DC 12~24V Input / Resolution 1024x768 / RK3568/ 2G RAM / eMMC 32G / 2xLAN / 4xUSB / 1xHDMI/ 2xCAN / 2xCOM/ 16pin GPIO
IAM24121-3568-2G-32G	12.1" TFT LCD / Tempered glass screen / No extension button / DC 12~24V Input / Resolution 1024x768 / RK3568/ 2G RAM / eMMC 32G / 2xLAN / 4xUSB / 1xHDMI/ 2xCAN / 2xCOM/ 16pin GPIO

Optional Accessories

RAM+eMMC	2G+32G / 4G+64G / 8G+128G
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Packing List

Terminal	2 x 10pin terminal
Terminal	2 x 2pin terminal
Terminal	2 x 3pin terminal

Note: Package contents are subject to change without prior notice