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IAM21101

IAM22101

IAM24101



Shanghai Panelmate Electronics Co., Ltd.

10.1" WXGA 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

Industrial panel PC
 Series code
 21: Resistive screen
 22: Capacitive screen
 24: Tempered glass screen
 Screen size
 (Support 15.6" 18.5") High resolution screen

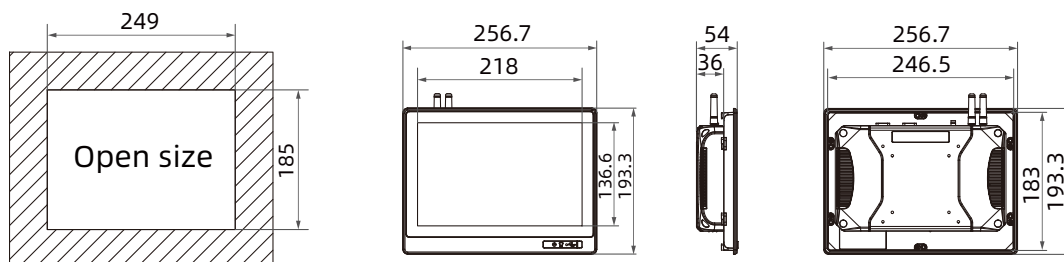
Customized code
 SSD capacity
 Memory capacity
 CPU model
 3568: Rockchip RK3568
 Portrait screen(Support 21.5" ,24" ,27")

Specifications

Model		IAM21101 & IAM22101 & IAM24101
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)	256.7mm x 193.3mm x 54mm (10.11"x 7.61"x2.13")
	Open Size (WxH)	249mm x 185mm (9.80" x 7.28")
	Mounting	Embedded;Wall-mounted;VESA
LCD	Display Type	10.1" WXGA TFT
	Resolution	1280x800
	Colors	16.7M
	Active Area (WxH)	216.96mmx135.60 (8.54"x5.34")
	Backlight	LED
	MTBF (hour)	30000hrs
	Pixel Pitch (HxV)	0.1695x0.1695
	Luminance(cd/m2)	400cd/m2
	Contrast Ratio	800:1
Touchscreen	Viewing Angle	(L) 85/ (R) 85/ (U) 85/ (D) 85
	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	-30~70°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

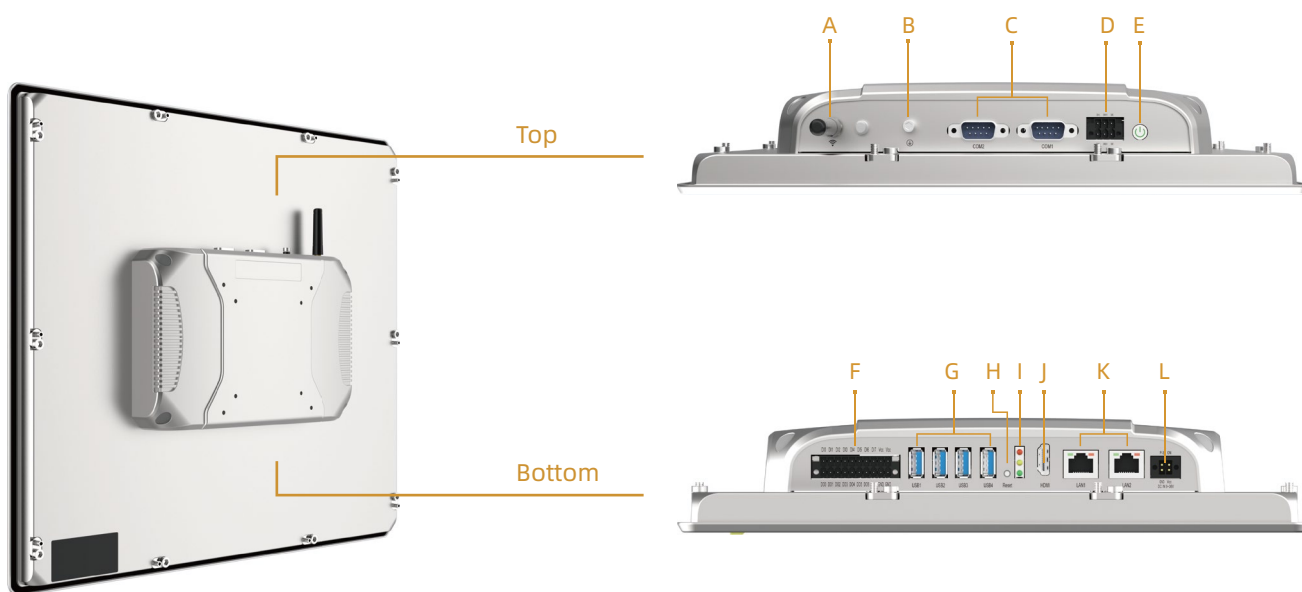
IAM21101 & IAM22101 & IAM24101

Technical Drawings unit: mm



Panel Cutout Dimensions: 249 x 185mm (9.80 x 7.28in)

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
IAM21101-3568-2G-32G	10.1" TFT LCD / Resistive touch screen / No extension button / DC 12~24V Input / Resolution 1280x800 / RK3568/ 2G RAM /eMMC 32G / 2xLAN / 4xUSB / 1xHDMI/ 2xCAN / 2xCOM/ 16pin GPIO
IAM22101-3568-2G-32G	10.1" TFT LCD / Capacitive touch screen / No extension button / DC 12~24V Input / Resolution 1280x800 / RK3568/ 2G RAM /eMMC 32G / 2xLAN / 4xUSB / 1xHDMI/ 2xCAN / 2xCOM/ 16pin GPIO
IAM24101-3568-2G-32G	10.1" TFT LCD / Tempered glass screen / No extension button / DC 12~24V Input / Resolution 1280x800 / 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