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PI21101
PI22101
PI24101



Shanghai Panelmate Electronics Co., Ltd.

10.1" WXGA Raspberry Panel PC



PANELMATE
Creative HMI Solution

PI21101 & PI22101 & PI24101



Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

Namely Rule

PI 2XXXXHP-xxK-2G-8G-xxxx

Raspberry Pi panel PC
Series code
21: Resistance screen
22: Capacitive screen
24: Non-touch screen

Display size

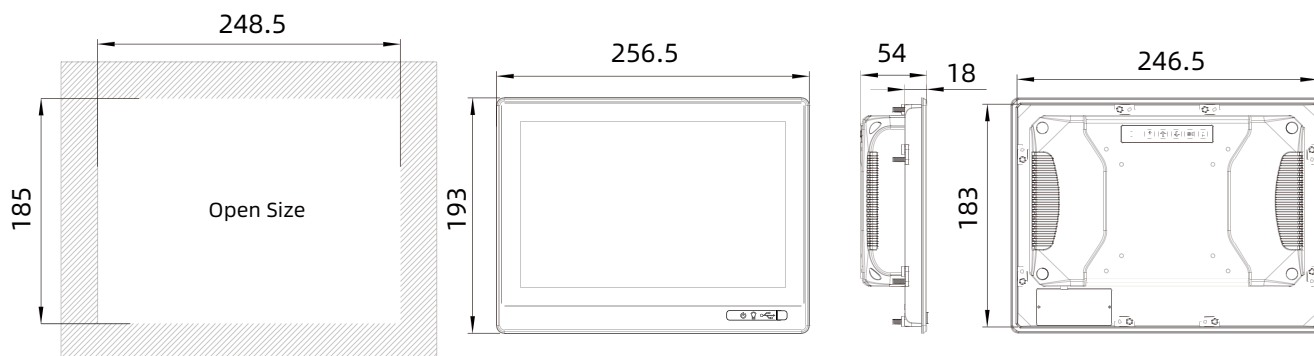
(Support 15.6" 18.5")High resolution screen

Customized code(blank)
HDD capacity (8G/16G/32G)
Memory capacity (2G/4G/8G)
Numbers of extension buttons(standard:00K)
Vertical screen(Support 21.5" 27")

Specifications

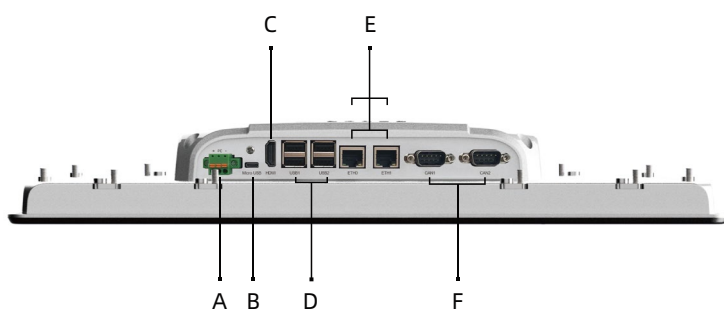
Model		PI21101&PI22101&PI24101
Processor	CPU	Broadcom BCM2711 1.5 GHz,64-bit,4 cores,ARM Cortex-A72
	Memory	2G (Deafult) /4G/8G optional
	Storage	8G eMMC (Deafult) /16G/32G eMMC optional
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	15W
Physical	Dimension (WxHxD/mm)	256.5 x 193 x 54 (10.10" x 7.60" x 2.13")
	Open Size (WxH/mm)	248.5 x 185 (9.78" x 7.28")
	Net Weight(kg)	1.7kg
	Mounting	Embedded,Wall-mounted, desktop, VESA
LCD	Display Type	10.1" WXGA TFT
	Resolution	1280 x 800
	Colors	16.7M
	Active Area (WxH/mm)	216.96 x 135.60 (8.54" x 5.34")
	Backlight	LED
	MTBF (hour)	30000hrs
	Pixel Pitch (HxV)	0.1695 x 0.1695
	Luminance(cd/m2)	400
	Contrast Ratio	800:1
	Viewing Angle	(L)85 / (R)85 / (U)85 / (D)85
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 248.5 x 185mm (9.78 x 7.28in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21101	10.1" TFT LCD / Resistive touch screen / DC 24V / Resolution 1280 x 800 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22101	10.1" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1280 x 800 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24101	10.1" TFT LCD / Non-touch screen / DC 24V / Resolution 1280 x 800 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
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Note: Package contents are subject to change without prior notice

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PI21104
PI22104
PI24104



Shanghai Panelmate Electronics Co., Ltd.

10.4" XGA Raspberry Panel PC



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Creative HMI Solution

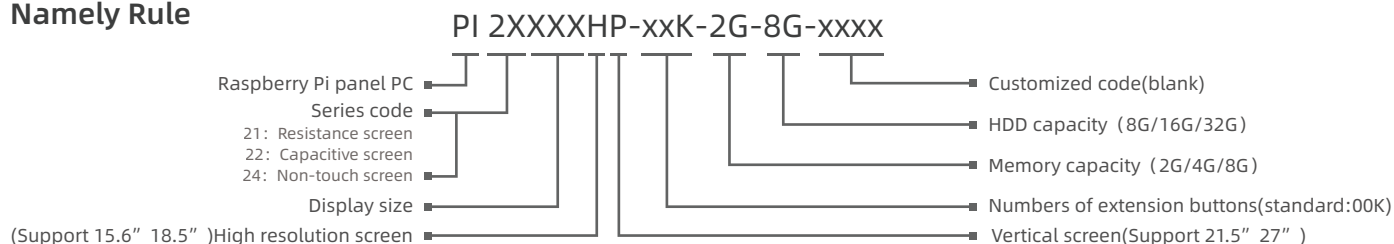
PI21104 & PI22104 & PI24104



Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

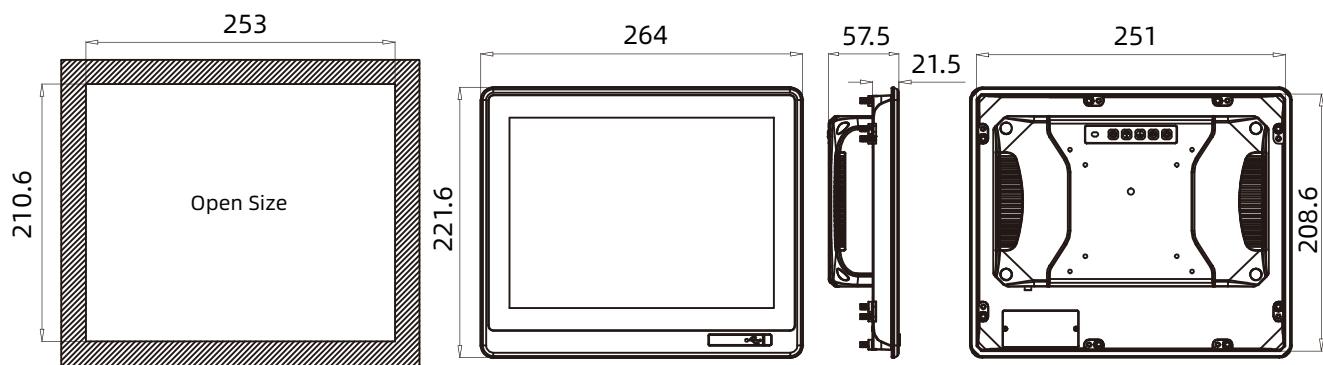
Namely Rule



Specifications

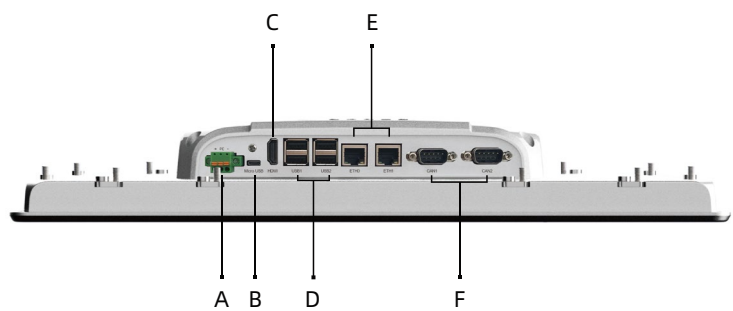
Model		PI21104&PI22104&PI24104
Processor	CPU	Broadcom BCM2711 1.5 GHz, 64-bit, 4 cores, ARM Cortex-A72
	Memory	2G (Default) / 4G/8G
	Storage	8G eMMC (Default) / 16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	15W
Physical	Dimension (WxHxD/mm)	264 x 221.6 x 57.5 (10.39" x 8.72" x 2.26")
	Open Size (WxH/mm)	253 x 210.6 (9.96" x 8.29")
	Net Weight(kg)	2.05kg
	Mounting	Embedded, Wall-mounted, Desktop, VESA
LCD	Display Type	10.4" XGA TFT
	Resolution	1024x768
	Colors	16.2M
	Active Area (WxH/mm)	211.2 x 158.4 (8.31" x 6.24")
	Backlight	LED
	MTBF (hour)	30000hrs
	Pixel Pitch (HxV)	0.2063 x 0.2063
	Luminance(cd/m2)	350
	Contrast Ratio	900:1
	Viewing Angle	(L)75 / (R)75 / (U)75 / (D)75
	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
Touchscreen	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	Surface Hardness	Resistive touchscreen: Mohs' Number >= 3H; Capacitive touchscreen: Mohs' Number 7H
	Operating Temperature	-20 ~ 70°C
Environment	Storage Temperature	-20 ~ 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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 253 x 210.6mm (9.96 x 8.29in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21104	10.4" TFT LCD / Resistive touch screen / DC 24V / Resolution 1024 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22104	10.4" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1024 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24104	10.4" TFT LCD / Non-touch screen / DC 24V / Resolution 1024 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3 pin 3pin spring clamp terminal
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Note: Package contents are subject to change without prior notice

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PI21121
PI22121
PI24121



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12.1" XGA Raspberry Panel PC



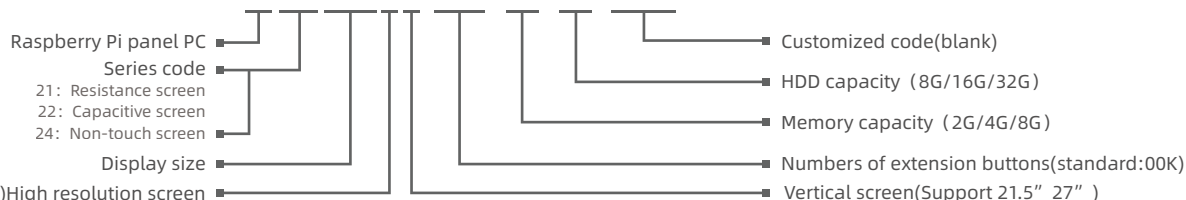


Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

Namely Rule

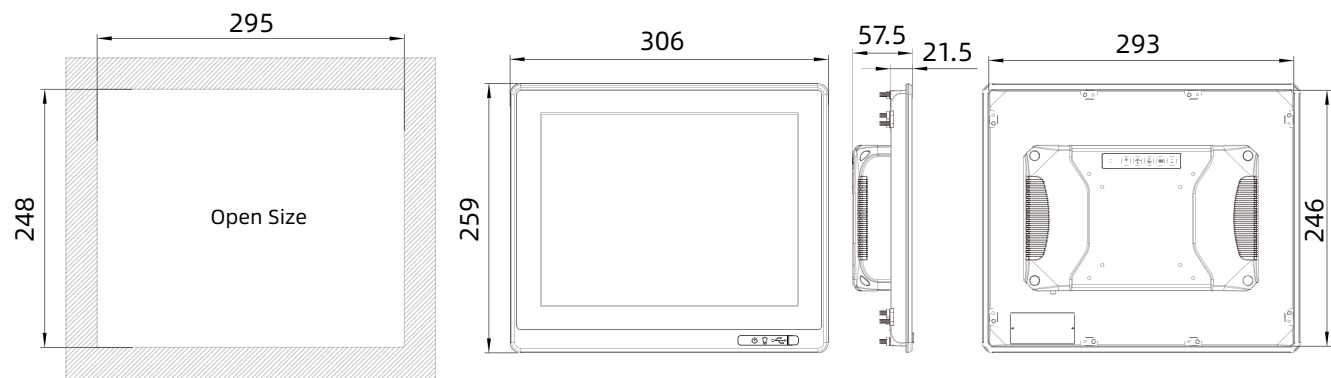
PI 2XXXXHP-xxK-2G-8G-xxxx



Specifications

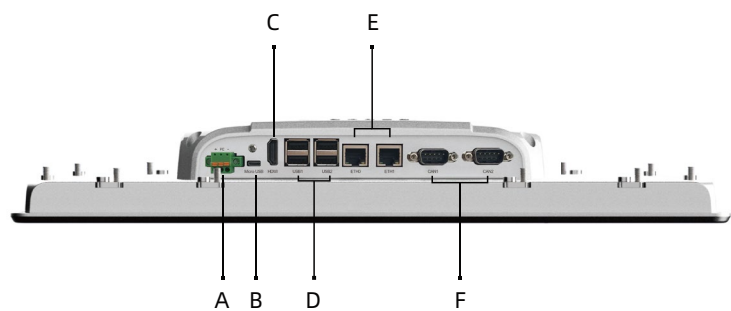
Model		PI21121&PI22121&PI24121
Processor	CPU	Broadcom BCM2711 1.5 GHz, 64-bit, 4 cores, ARM Cortex-A72
	Memory	2G (Default) / 4G/8G
	Storage	8G eMMC (Default) / 16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	19W
Physical	Dimension (WxHxD/mm)	306 x 259 x 57.5 (12.05" x 10.20" x 2.26")
	Open Size (WxH/mm)	295 x 248 (11.61" x 9.76")
	Net Weight(kg)	2.65kg
	Mounting	Embedded, Wall-mounted, Desktop, VESA
LCD	Display Type	12.1" XGA TFT
	Resolution	1024 x 768
	Colors	16.7M
	Active Area (WxH/mm)	304.1 x 228.1 (11.97" x 8.98")
	Backlight	LED
	MTBF (hour)	50000hrs
	Pixel Pitch (HxV)	0.24 x 0.24
	Luminance(cd/m2)	350cd/m2
	Contrast Ratio	800:1
	Viewing Angle	(L)80 / (R)80 / (U)80 / (D)80
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (Windows)
	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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



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

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21121	12.1" TFT LCD / Resistive touch screen / DC 24V / Resolution 1024 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22121	12.1" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1024 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24121	12.1" TFT LCD / Non-touch screen /DC 24V / Resolution 1024 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
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Note: Package contents are subject to change without prior notice

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PI21122
PI22122
PI24122



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12.2" WXGA Raspberry Panel PC





Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

Namely Rule

PI 2XXXXHP-xxK-2G-8G-xxxx

Raspberry Pi panel PC
Series code
21: Resistance screen
22: Capacitive screen
24: Non-touch screen

Display size

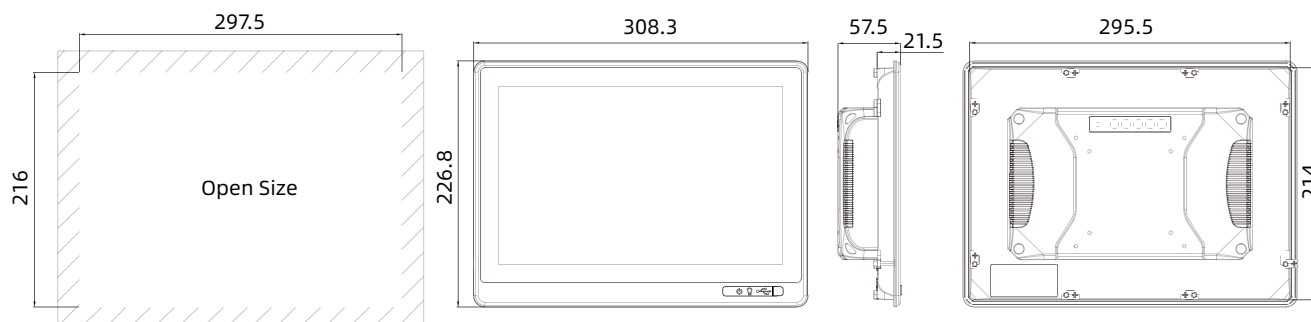
(Support 15.6" 18.5")High resolution screen

Customized code(blank)
HDD capacity (8G/16G/32G)
Memory capacity (2G/4G/8G)
Numbers of extension buttons(standard:00K)
Vertical screen(Support 21.5" 27")

Specifications

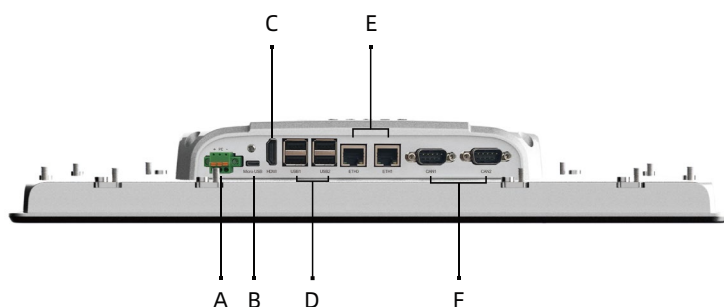
Model		PI21122&PI22122&PI24122
Processor	CPU	Broadcom BCM2711 1.5 GHz,64-bit,4 cores,ARM Cortex-A72
	Memory	2G (Deafult) /4G/8G
	Storage	8G eMMC (Deafult) /16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	19W
Physical	Dimension (WxHxD/mm)	308.3 x 226.8 x 57.5 (12.14" x 8.93" x 2.26")
	Open Size (WxH/mm)	297.5 x 216 (11.71" x 8.50")
	Net Weight(kg)	3.2kg
	Mounting	Embedded,Wall-mounted,Desktop,VESA
LCD	Display Type	12.2" WXGA TFT
	Resolution	1280 x 800
	Colors	16.7M
	Active Area (WxH/mm)	262 x 164 (10.31" x 6.46")
	Backlight	LED
	MTBF (hour)	50000hrs
	Pixel Pitch (HxV)	0.2052 x 0.2052
	Luminance(cd/m2)	450cd/m2
	Contrast Ratio	1000:1
	Viewing Angle	(L)85 / (R)85 / (U)85 / (D)85
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 297 x 216mm (11.71 x 8.50in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21122	12.2" TFT LCD / Resistive touch screen / DC 24V / Resolution 1280 x 800 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22122	12.2" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1280 x 800 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24122	12.2" TFT LCD / Non-touch screen / DC 24V / Resolution 1280 x 800 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
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Note: Package contents are subject to change without prior notice

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PI21150
PI22150
PI24150



Shanghai Panelmate Electronics Co., Ltd.

15" XGA Raspberry Panel PC





Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

Namely Rule

PI 2XXXXHP-xxK-2G-8G-xxxx

Raspberry Pi panel PC
Series code
21: Resistance screen
22: Capacitive screen
24: Non-touch screen

Display size

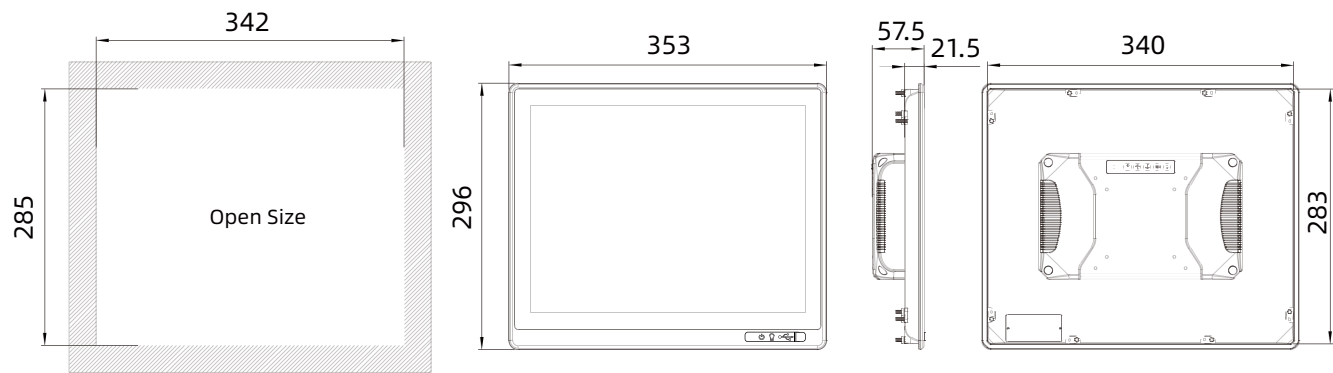
(Support 15.6" 18.5")High resolution screen

- Customized code(blank)
- HDD capacity (8G/16G/32G)
- Memory capacity (2G/4G/8G)
- Numbers of extension buttons(standard:00K)
- Vertical screen(Support 21.5" 27")

Specifications

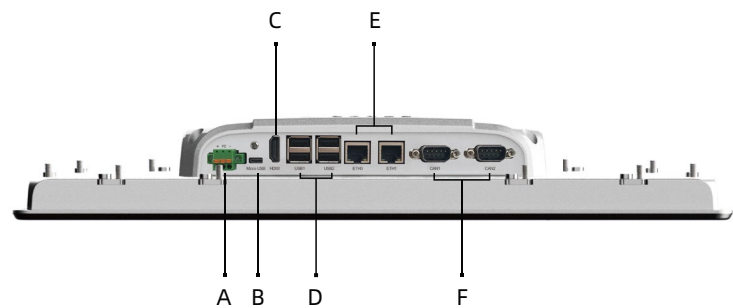
Model		PI21150&PI22150&PI24150
Processor	CPU	Broadcom BCM2711 1.5 GHz, 64-bit, 4 cores, ARM Cortex-A72
	Memory	2G (Default) /4G/8G
	Storage	8G eMMC (Default) /16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	21W
Physical	Dimension (WxHxD/mm)	353 x 296 x 57.5 (13.90 x 11.65 x 2.26)
	Open Size (WxH/mm)	342 x 285 (13.46" x 11.22")
	Net Weight(kg)	3.65kg
	Mounting	Embedded, Wall-mounted, Desktop, VESA
LCD	Display Type	15" XGA TFT
	Resolution	1024 x 768
	Colors	16.7M
	Active Area (WxH/mm)	304.1 x 228.1 (11.97" x 8.98")
	Backlight	LED
	MTBF (hour)	50000hrs
	Pixel Pitch (HxV)	0.297 x 0.297
	Luminance(cd/m2)	400cd/m2
	Contrast Ratio	800:1
	Viewing Angle	(L)80 / (R)80 / (U)80 / (D)80
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	Surface Hardness	Resistive touchscreen: Mohs' Number >= 3H; Capacitive touchscreen: Mohs' Number 7H
Environment	Operating Temperature	-10 ~ 65°C
	Storage Temperature	-20 ~ 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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 342 x 285mm (13.46 x 11.22in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21150	15" TFT LCD / Resistive touch screen / DC 24V / Resolution 1024 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22150	15" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1024 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24150	15" TFT LCD / Non-touch screen / DC 24V / Resolution 1024 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
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Note: Package contents are subject to change without prior notice

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PI21156
PI22156
PI24156



Shanghai Panelmate Electronics Co., Ltd.

15.6" WXGA Raspberry Panel PC



PI21156 & PI22156 & PI24156



Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

Namely Rule

PI 2XXXXHP-xxK-2G-8G-xxxx

Raspberry Pi panel PC
Series code
21: Resistance screen
22: Capacitive screen
24: Non-touch screen

Display size

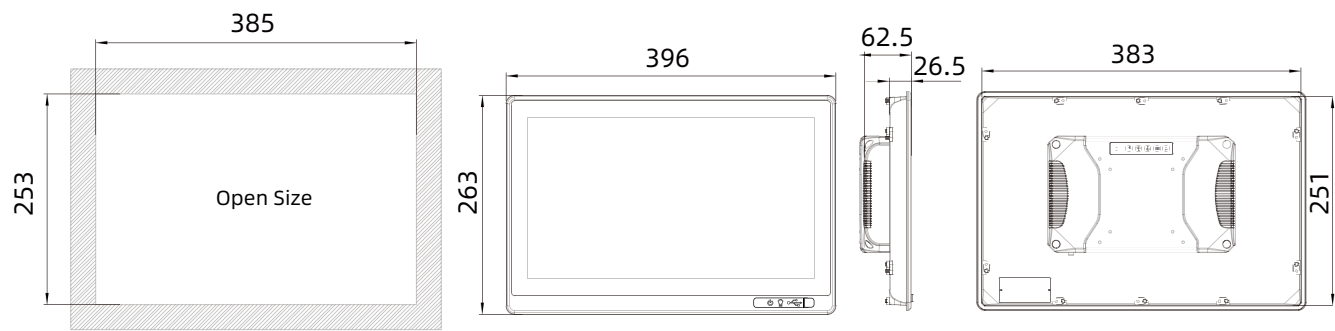
(Support 15.6" 18.5")High resolution screen

Customized code(blank)
HDD capacity (8G/16G/32G)
Memory capacity (2G/4G/8G)
Numbers of extension buttons(standard:00K)
Vertical screen(Support 21.5" 27")

Specifications

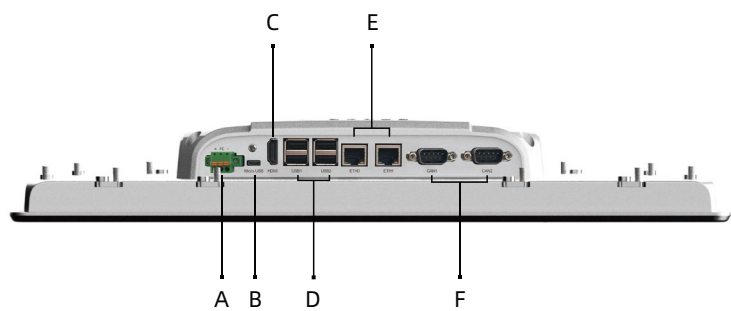
Model		PI21156&PI22156&PI24156
Processor	CPU	Broadcom BCM2711 1.5 GHz,64-bit,4 cores,ARM Cortex-A72
	Memory	2G (Deafult) /4G/8G
	Storage	8G eMMC (Deafult) /16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	28W
Physical	Dimension (WxHxD/mm)	396 x 263 x 62.5 (15.59" x 10.35" x 2.46)
	Open Size (WxH/mm)	385 x 253 (15.16" x 9.96")
	Net Weight(kg)	3.9kg
	Mounting	Embedded,Wall-mounted,Desktop,VESA
LCD	Display Type	15.6" WXGA TFT
	Resolution	1366 x 768
	Colors	16.7M
	Active Area (WxH/mm)	344.23 x 193.54 (13.55" x 7.62")
	Backlight	LED
	MTBF (hour)	50000hrs
	Pixel Pitch (HxV)	0.252 x 0.252
	Luminance(cd/m2)	300cd/m2
	Contrast Ratio	500:1
	Viewing Angle	(L)85 / (R)85 / (U)85 / (D)85
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	Surface Hardness	Resistive touchscreen: Mohs' Number>= 3H; Capacitive touchscreen: Mohs' Number 7H
Environment	Operating Temperature	0 ~ 60°C
	Storage Temperature	-20 ~ 60°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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 385 x 253mm (15.16 x 9.96in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21156	15.6" TFT LCD / Resistive touch screen / DC 24V / Resolution 1366 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22156	15.6" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1366 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24156	15.6" TFT LCD / Non-touch screen /DC 24V / Resolution 1366 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
----------	----------------------------

Note: Package contents are subject to change without prior notice

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PI21156H
PI22156H
PI24156H



Shanghai Panelmate Electronics Co., Ltd.

15.6" FHD Raspberry Panel PC



PI21156H & PI22156H & PI24156H



Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

Namely Rule

PI 2XXXXHP-xxK-2G-8G-xxxx

Raspberry Pi panel PC
Series code
21: Resistance screen
22: Capacitive screen
24: Non-touch screen

Display size

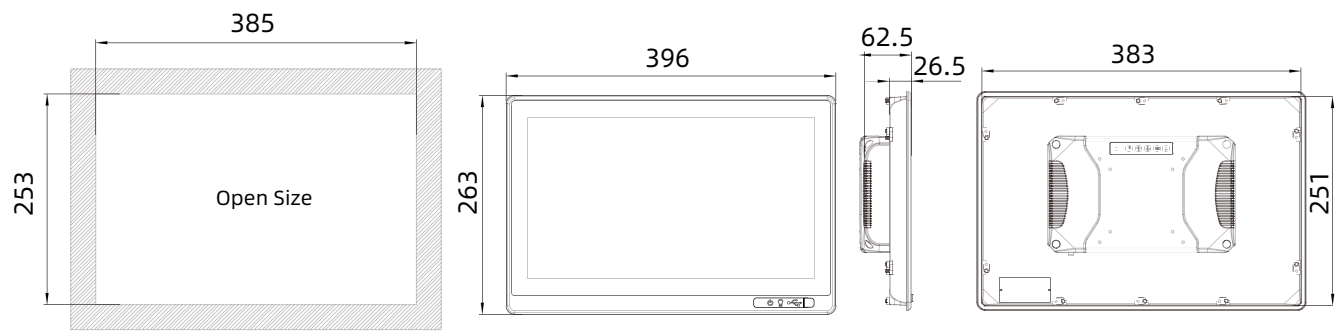
(Support 15.6" 18.5")High resolution screen

- Customized code(blank)
- HDD capacity (8G/16G/32G)
- Memory capacity (2G/4G/8G)
- Numbers of extension buttons(standard:00K)
- Vertical screen(Support 21.5" 27")

Specifications

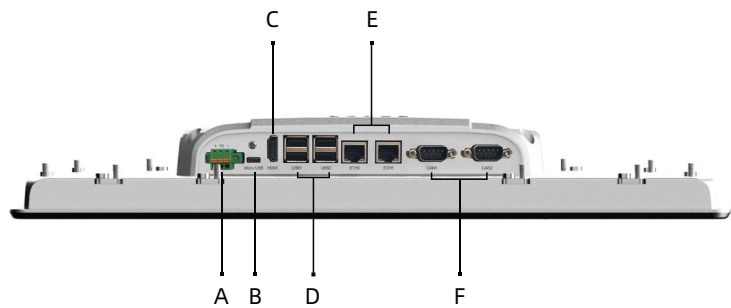
Model		PI21156H&PI22156H&PI24156H
Processor	CPU	Broadcom BCM2711 1.5 GHz,64-bit,4 cores,ARM Cortex-A72
	Memory	2G (Deafult) /4G/8G
	Storage	8G eMMC (Deafult) /16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	18W
Physical	Dimension (WxHxD/mm)	396 x 263 x 62.5 (15.59" x 10.35" x 2.46)
	Open Size (WxH/mm)	385 x 253 (15.16" x 9.96")
	Net Weight(kg)	3.9kg
	Mounting	Embedded,Wall-mounted,Desktop,VESA
LCD	Display Type	15.6" FHD TFT
	Resolution	1920 x 1080
	Colors	16.7M
	Active Area (WxH/mm)	344.23 x 193.54 (13.55" x 7.62")
	Backlight	LED
	MTBF (hour)	50000hrs
	Pixel Pitch (HxV)	0.252 x 0.252
	Luminance(cd/m2)	250cd/m2
	Contrast Ratio	3000:1
	Viewing Angle	(L)89 / (R)89 / (U)89 / (D)89
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	Surface Hardness	Resistive touchscreen: Mohs' Number>= 3H; Capacitive touchscreen: Mohs' Number 7H
Environment	Operating Temperature	0 ~ 50°C
	Storage Temperature	-20 ~ 60°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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 385 x 253mm (15.16 x 9.96in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21156H	15.6" TFT LCD / Resistive touch screen / DC 24V / Resolution 1920 x 1080 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22156H	15.6" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1920 x 1080 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24156H	15.6" TFT LCD / Non-touch screen /DC 24V / Resolution 1920 x 1080 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
----------	----------------------------

Note: Package contents are subject to change without prior notice

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PI21170
PI22170
PI24170



Shanghai Panelmate Electronics Co., Ltd.

17" SXGA Raspberry Panel PC



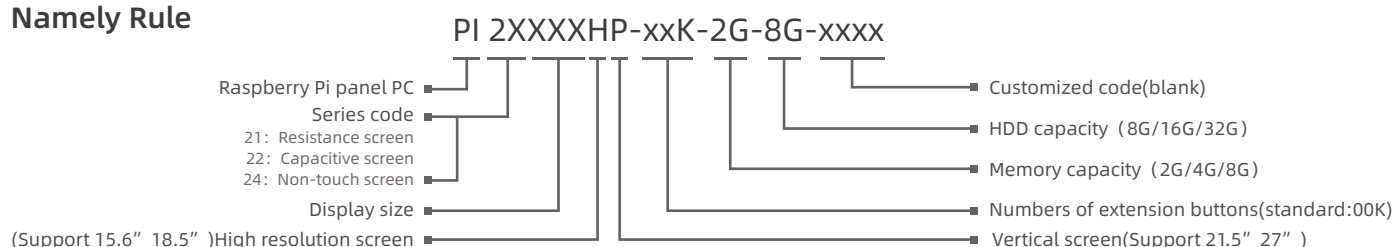
PI21170 & PI22170 & PI24170



Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

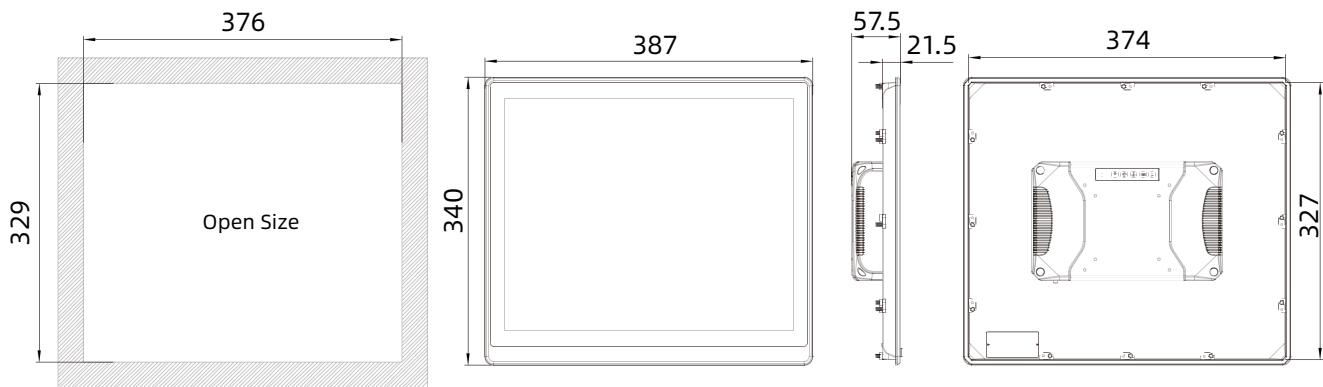
Namely Rule



Specifications

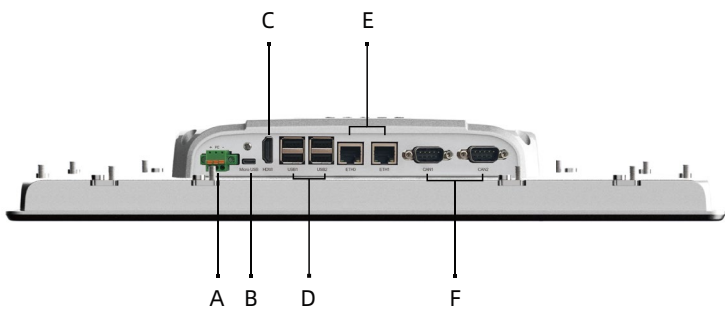
Model		PI21170&PI22170&PI24170
Processor	CPU	Broadcom BCM2711 1.5 GHz, 64-bit, 4 cores, ARM Cortex-A72
	Memory	2G (Default) /4G/8G
	Storage	8G eMMC (Default) /16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	22W
Physical	Dimension (WxHxD/mm)	387 x 340 x 57.5 (15.24" x 13.39" x 2.26)
	Open Size (WxH/mm)	376 x 329 (14.80" x 12.95")
	Net Weight(kg)	4.3kg
	Mounting	Embedded, Wall-mounted, Desktop, VESA
LCD	Display Type	17" SXGA TFT
	Resolution	1280 x 1024
	Colors	16.7M
	Active Area (WxH/mm)	337.92 x 270.34 (13.30" x 10.64")
	Backlight	LED
	MTBF (hour)	30000hrs
	Pixel Pitch (HxV)	0.264 x 0.264
	Luminance(cd/m2)	250cd/m2
	Contrast Ratio	1000:1
	Viewing Angle	(L)88 / (R)88 / (U)85 / (D)85
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	Surface Hardness	Resistive touchscreen: Mohs' Number >= 3H; Capacitive touchscreen: Mohs' Number 7H
Environment	Operating Temperature	0 ~ 50°C
	Storage Temperature	-20 ~ 60°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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 376 x 329mm (14.80 x 12.95in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21170	17" TFT LCD / Resistive touch screen / DC 24V / Resolution 1280 x 1024 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22170	17" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1280 x 1024 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24170	17" TFT LCD / Non-touch screen / DC 24V / Resolution 1280 x 1024 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
----------	----------------------------

Note: Package contents are subject to change without prior notice

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PI21185
PI22185
PI24185



Shanghai Panelmate Electronics Co., Ltd.

18.5" WXGA Raspberry Panel PC

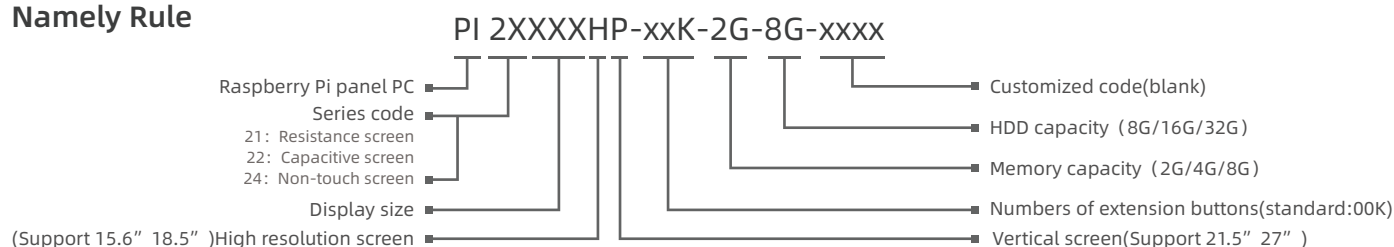




Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

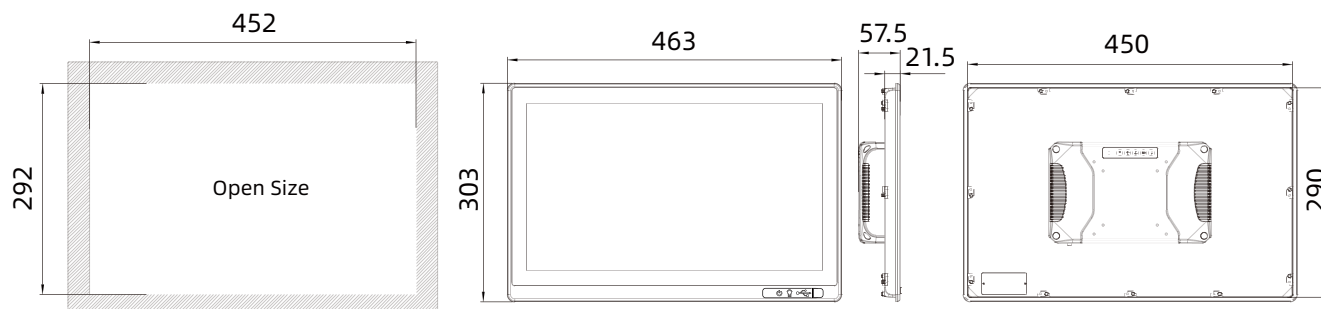
Namely Rule



Specifications

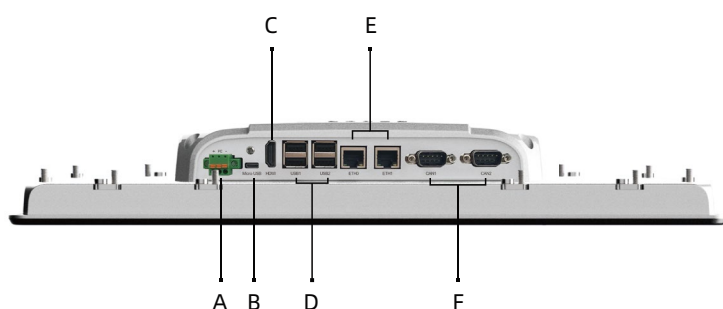
Model		PI21185&PI22185&PI24185
Processor	CPU	Broadcom BCM2711 1.5 GHz, 64-bit, 4 cores, ARM Cortex-A72
	Memory	2G (Default) /4G/8G
	Storage	8G eMMC (Default) /16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	26W
Physical	Dimension (WxHxD/mm)	463 x 303 x 57.5 (18.23" x 11.93" x 2.26")
	Open Size (WxH/mm)	452 x 292 (17.80" x 11.50")
	Net Weight(kg)	4.45kg
	Mounting	Embedded, Wall-mounted, Desktop, VESA
LCD	Display Type	18.5" WXGA TFT
	Resolution	1366 x 768
	Colors	16.7M
	Active Area (WxH/mm)	409.8 x 230.4 (16.13" x 9.07")
	Backlight	LED
	MTBF (hour)	30000hrs
	Pixel Pitch (HxV)	0.3 x 0.3
	Luminance(cd/m2)	250cd/m2
	Contrast Ratio	1000:1
	Viewing Angle	(L)89 / (R)89 / (U)89 / (D)89
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	Surface Hardness	Resistive touchscreen: Mohs' Number >= 3H; Capacitive touchscreen: Mohs' Number 7H
Environment	Operating Temperature	0 ~ 50°C
	Storage Temperature	-20 ~ 60°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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 452 x 292mm (17.80 x 11.50in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21185	18.5" TFT LCD / Resistive touch screen / DC 24V / Resolution 1366 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22185	18.5" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1366 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24185	18.5" TFT LCD / Non-touch screen / DC 24V / Resolution 1366 x 768 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
----------	----------------------------

Note: Package contents are subject to change without prior notice

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PI21185H
PI22185H
PI24185H



Shanghai Panelmate Electronics Co., Ltd.

18.5" FHD Raspberry Panel PC



PI21185H & PI22185H & PI24185H

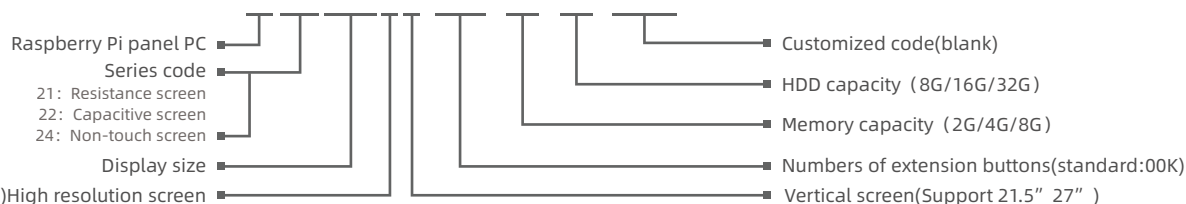


Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

Namely Rule

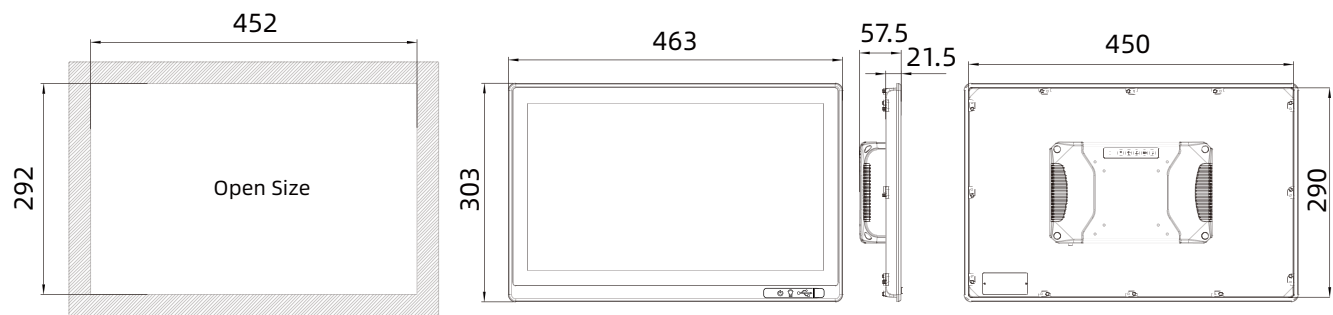
PI 2XXXXHP-xxK-2G-8G-xxxx



Specifications

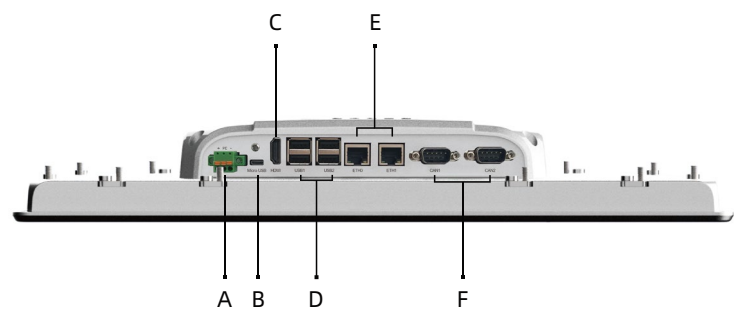
Model		PI21185H&PI22185H&PI24185H
Processor	CPU	Broadcom BCM2711 1.5 GHz,64-bit,4 cores,ARM Cortex-A72
	Memory	2G (Deafult) /4G/8G
	Storage	8G eMMC (Deafult) /16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	25W
Physical	Dimension (WxHxD/mm)	463 x 303 x 57.5 (18.23" x 11.93" x 2.26")
	Open Size (WxH/mm)	452 x 292 (17.80" x 11.50")
	Net Weight(kg)	4.45kg
	Mounting	Embedded,Wall-mounted,Desktop,VESA
LCD	Display Type	18.5" FHD TFT
	Resolution	1920 x 1080
	Colors	16.7M
	Active Area (WxH/mm)	408.96 x 230.4 (16.10" x 9.07")
	Backlight	LED
	MTBF (hour)	50000hrs
	Pixel Pitch (HxV)	0.213 x 0.213
	Luminance(cd/m2)	250cd/m2
	Contrast Ratio	1000:1
	Viewing Angle	(L)89 / (R)89 / (U)89 / (D)89
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	Surface Hardness	Resistive touchscreen: Mohs' Number>= 3H; Capacitive touchscreen: Mohs' Number 7H
Environment	Operating Temperature	0 ~ 50°C
	Storage Temperature	-20 ~ 60°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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 452 x 292mm (17.80 x 11.50in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21185H	18.5" TFT LCD / Resistive touch screen / DC 24V / Resolution 1920 x 1080 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22185H	18.5" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1920 x 1080 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24185H	18.5" TFT LCD / Non-touch screen /DC 24V / Resolution 1920 x 1080 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
----------	----------------------------

Note: Package contents are subject to change without prior notice

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PI21190
PI22190
PI24190



Shanghai Panelmate Electronics Co., Ltd.

19" SXGA Raspberry Panel PC





Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

Namely Rule

PI 2XXXXHP-xxK-2G-8G-xxxx

Raspberry Pi panel PC
Series code
21: Resistance screen
22: Capacitive screen
24: Non-touch screen

Display size

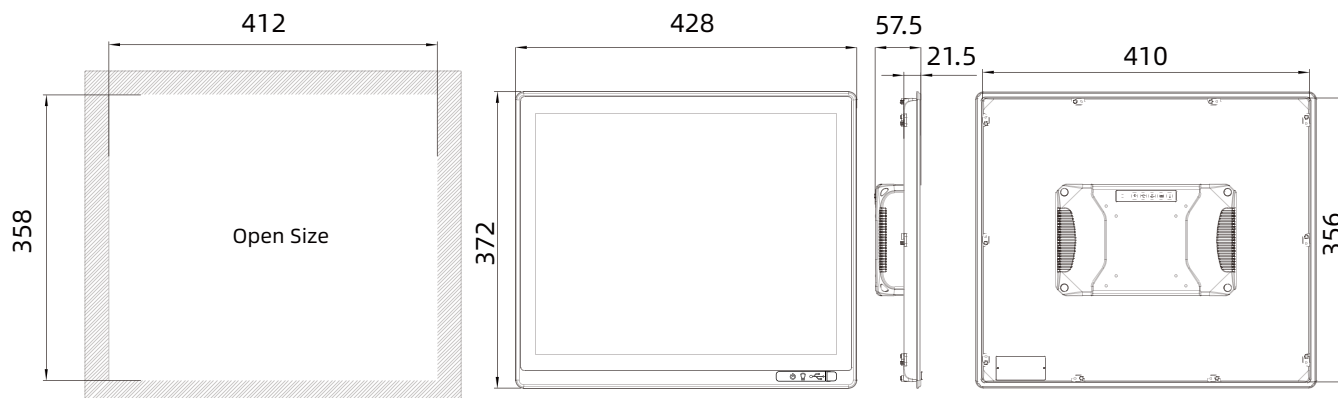
(Support 15.6" 18.5")High resolution screen

- Customized code(blank)
- HDD capacity (8G/16G/32G)
- Memory capacity (2G/4G/8G)
- Numbers of extension buttons(standard:00K)
- Vertical screen(Support 21.5" 27")

Specifications

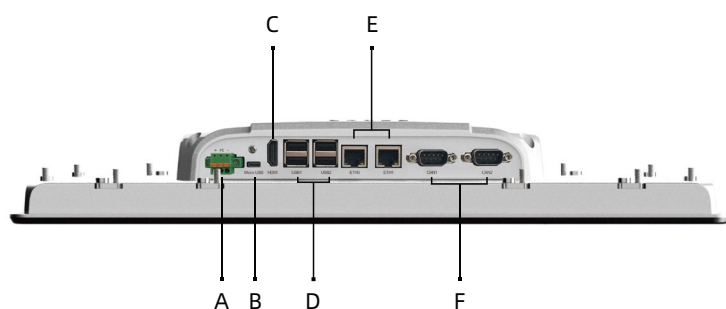
Model		PI21190&PI22190&PI24190
Processor	CPU	Broadcom BCM2711 1.5 GHz, 64-bit, 4 cores, ARM Cortex-A72
	Memory	2G (Default) /4G/8G
	Storage	8G eMMC (Default) /16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	24W
Physical	Dimension (WxHxD/mm)	428 x 372 x 57.5 (16.85" x 14.65" x 2.26")
	Open Size (WxH/mm)	412 x 358 (16.22" x 14.09")
	Net Weight(kg)	5.1kg
	Mounting	Embedded, Wall-mounted, Desktop, VESA
LCD	Display Type	19" SXGA TFT
	Resolution	1280 x 1024
	Colors	16.7M
	Active Area (WxH/mm)	376.32 x 301.06 (14.82" x 11.85")
	Backlight	LED
	MTBF (hour)	30000hrs
	Pixel Pitch (HxV)	0.294 x 0.294
	Luminance(cd/m2)	250cd/m2
	Contrast Ratio	1000:1
	Viewing Angle	(L)85 / (R)85 / (U)80 / (D)80
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	Surface Hardness	Resistive touchscreen: Mohs' Number >= 3H; Capacitive touchscreen: Mohs' Number 7H
Environment	Operating Temperature	0 ~ 50°C
	Storage Temperature	-20 ~ 60°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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 412 x 358mm (16.22 x 14.09in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21190	19" TFT LCD / Resistive touch screen / DC 24V / Resolution 1280 x 1024 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22190	19" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1280 x 1024 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24190	19" TFT LCD / Non-touch screen / DC 24V / Resolution 1280 x 1024 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
----------	----------------------------

Note: Package contents are subject to change without prior notice

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PI21215 (P)
PI22215 (P)
PI24215 (P)



Shanghai Panelmate Electronics Co., Ltd.

21.5" FHD Raspberry Panel PC (Vertical Screen)



PI21215 (P) & PI22215 (P) & PI24215 (P)



Features

- Display type: 10.1", 10.4", 12.1", 12.2", 15", 15.6", 17", 18.5", 19", 21.5"
- Front panel/back cover: Aluminium-magnesium alloy
- Front panel/Rear: IP65 / IP20
- Screen Type: Single point resistive touchscreen, Multi-point capacitive touchscreen, Non-touch screen
- Built-in UPS power supply
- RTC real-time clock
- OS: LINUX or Raspberry PI
- Interface: HDMI, Type-C, 4xUSB and 2xCAN
- DC 24V

Namely Rule

PI 2XXXXHP-xxK-2G-8G-XXXX

Raspberry Pi panel PC
Series code
21: Resistance screen
22: Capacitive screen
24: Non-touch screen

Display size

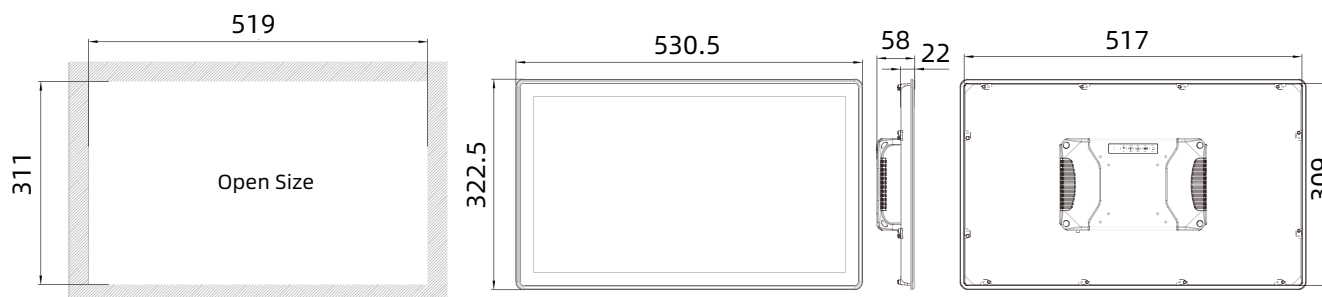
(Support 15.6" 18.5")High resolution screen

- Customized code(blank)
- HDD capacity (8G/16G/32G)
- Memory capacity (2G/4G/8G)
- Numbers of extension buttons(standard:00K)
- Vertical screen(Support 21.5" 27")

Specifications

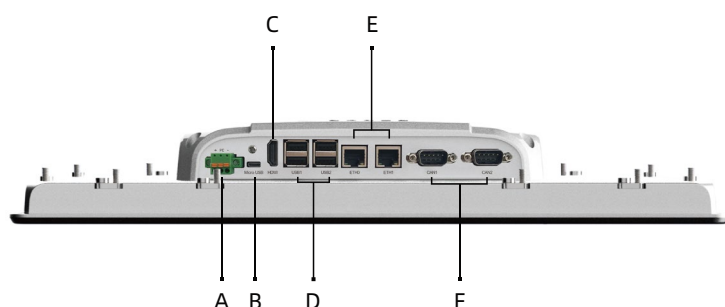
Model		PI21215 (P) & PI22215 (P) & PI24215 (P)
Processor	CPU	Broadcom BCM2711 1.5 GHz, 64-bit, 4 cores, ARM Cortex-A72
	Memory	2G (Default) / 4G/8G
	Storage	8G eMMC (Default) / 16G/32G eMMC
I/O	LAN	1 x 1000Mbps, BCM54210PE; 1 x 100Mbps, SR9900AI
	USB	1 x Micro USB, 4 x USB 2.0
	CAN	2 x CAN
	Display Port	HDMI
Power	Input Voltage	DC 24V
	Power	24W
Physical	Dimension (WxHxD/mm)	530.5 x 322.5 x 58 (20.89" x 12.70" x 2.28)
	Open Size (WxH/mm)	519 x 311 (20.43" x 12.24")
	Net Weight(kg)	5.15kg
	Mounting	Embedded, Wall-mounted, Desktop, VESA
LCD	Display Type	21.5" FHD TFT
	Resolution	1920 x 1080
	Colors	16.7M
	Active Area (WxH/mm)	476.64mm x 268.11mm (18.77" x 10.56")
	Backlight	LED
	MTBF (hour)	30000hrs
	Pixel Pitch (HxV)	0.24825 x 0.24825
	Luminance(cd/m2)	250cd/m2
	Contrast Ratio	3000:1
	Viewing Angle	(L)89 / (R)89 / (U)89 / (D)89
Touchscreen	Touch Type	Single point resistive touchscreen & Multi-point capacitive touchscreen & Non-touch screen
	Light Transmission	>85%
	Controller	USB interface
	Driver Support	Ubuntu, Ubuntu Mate
	Multi-touch	10 points (LINUX)
	Surface Hardness	Resistive touchscreen: Mohs' Number >= 3H; Capacitive touchscreen: Mohs' Number 7H
Environment	Operating Temperature	0 ~ 50°C
	Storage Temperature	-20 ~ 60°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 A
	Front Panel Protection	IP65

Technical Drawings unit: mm



Panel Cutout Dimensions: 519 x 311mm (20.43 x 12.24in)

External I/O View



Interface definition:

- A: DC IN
- B: Micro USB
- C: HDMI
- D: 4 x USB2.0
- E: 2 x Ethernet LAN
- F: 2 x CAN

Ordering Information

Part Number	Description
PI21215	21.5" TFT LCD / Resistive touch screen / DC 24V / Resolution 1920 x 1080 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI22215	21.5" TFT LCD / Capacitive touch screen / DC 24V / Resolution 1920 x 1080 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB
PI24215	21.5" TFT LCD / Non-touch screen / DC 24V / Resolution 1920 x 1080 / 2xLAN / 4 x USB / 1 x HDMI / 2 x CAN / 1 x Micro USB

Packing List

Terminal	3pin spring clamp terminal
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Note: Package contents are subject to change without prior notice