ANDROID PANEL PC

IPC4-070A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	7" TFT LCD
Resolution	1024×600
Viewing Angle	75/75/70/75 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	500:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	2* USB 2.0 + 2* USB 3.0
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
VGA	1* VGA
Serial Port	2* RS232 (Optional RS485, RS422, GPIO)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 225.0 x H 160.7 x D 59.0 mm
Cut-Out	W 210.8 x H 146.5 mm

PRODUCT ORDERING CODES

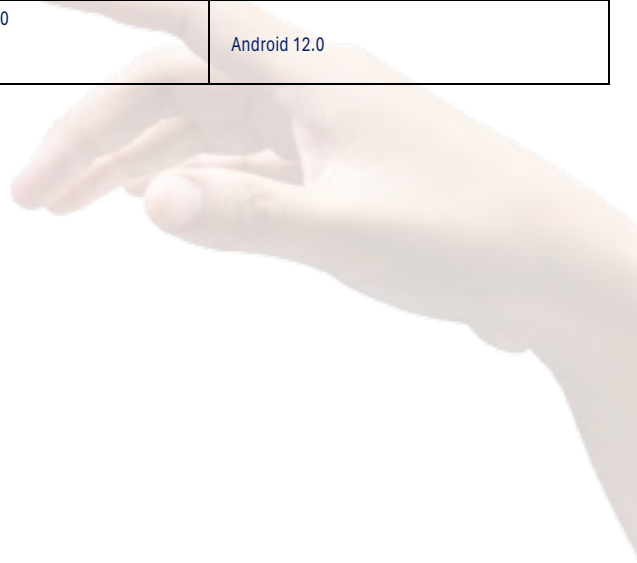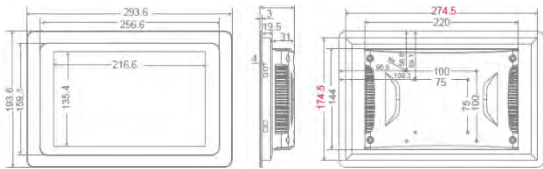| Processor | CPU	Body Color: Black		Body Color: Silver	
	PCAP	Resistive	PCAP	Resistive
Intel® Celeron® J6412	IPC4-070W-C10-6412	IPC4-070W-C20-6412	IPC4-070W-C11-6412	IPC4-070W-C21-6412
Intel® Core™ i3-8145U	IPC4-070W-i310-8145	IPC4-070W-i320-8145	IPC4-070W-i311-8145	IPC4-070W-i321-8145
Intel® Core™ i3-10110U	IPC4-070W-i310-10110	IPC4-070W-i320-10110	IPC4-070W-i311-10110	IPC4-070W-i321-10110
Intel® Core™ i5-7200U	IPC4-070W-i510-7200	IPC4-070W-i520-7200	IPC4-070W-i511-7200	IPC4-070W-i521-7200
Intel® Core™ i5-8265U	IPC4-070W-i510-8265	IPC4-070W-i520-8265	IPC4-070W-i511-8265	IPC4-070W-i521-8265
Intel® Core™ i5-10210U	IPC4-070W-i510-10210	IPC4-070W-i520-10210	IPC4-070W-i511-10210	IPC4-070W-i521-10210
Intel® Core™ i7-7500U	IPC4-070W-i710-7500	IPC4-070W-i720-7500	IPC4-070W-i711-7500	IPC4-070W-i721-7500
Intel® Core™ i7-10510U	IPC4-070W-i710-10510	IPC4-070W-i720-10510	IPC4-070W-i711-10510	IPC4-070W-i721-10510

ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands	BT 4.0	2.4GHz / 5.0GHz Dual Bands	BT 4.0	2.4GHz / 5.0GHz Dual Bands	BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

Wifi | GEN | POWER | DC | USB-3.0 | USB-3.0 | LAN | HDMI/SIM | VGA | Audio I/O | COM

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-080A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	8" TFT LCD
Resolution	1024×600
Viewing Angle	85/85/85/85 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	800:1

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	2* USB 2.0 + 2* USB 3.0
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
VGA	1* VGA
Serial Port	2* RS232 (Optional RS485, RS422, GPIO)

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 225.0 x H 160.7 x D 59.0 mm
Cut-Out	W 201.0 x H 170.8 mm

PRODUCT ORDERING CODES

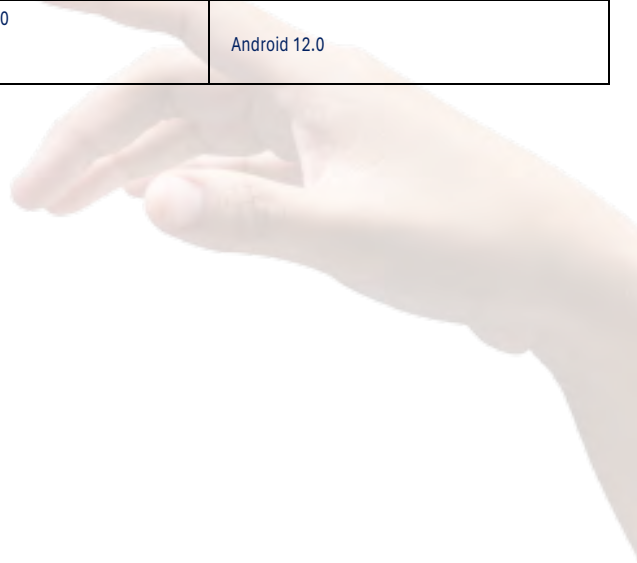| Processor | CPU	Body Color: Black		Body Color: Silver	
	PCAP	Resistive	PCAP	Resistive
Intel® Celeron® J6412	IPC4-080W-C10-6412	IPC4-080W-C20-6412	IPC4-080W-C11-6412	IPC4-080W-C21-6412
Intel® Core™ i3-8145U	IPC4-080W-i310-8145	IPC4-080W-i320-8145	IPC4-080W-i311-8145	IPC4-080W-i321-8145
Intel® Core™ i3-10110U	IPC4-080W-i310-10110	IPC4-080W-i320-10110	IPC4-080W-i311-10110	IPC4-080W-i321-10110
Intel® Core™ i5-7200U	IPC4-080W-i510-7200	IPC4-080W-i520-7200	IPC4-080W-i511-7200	IPC4-080W-i521-7200
Intel® Core™ i5-8265U	IPC4-080W-i510-8265	IPC4-080W-i520-8265	IPC4-080W-i511-8265	IPC4-080W-i521-8265
Intel® Core™ i5-10210U	IPC4-080W-i510-10210	IPC4-080W-i520-10210	IPC4-080W-i511-10210	IPC4-080W-i521-10210
Intel® Core™ i7-7500U	IPC4-080W-i710-7500	IPC4-080W-i720-7500	IPC4-080W-i711-7500	IPC4-080W-i721-7500
Intel® Core™ i7-10510U	IPC4-080W-i710-10510	IPC4-080W-i720-10510	IPC4-080W-i711-10510	IPC4-080W-i721-10510

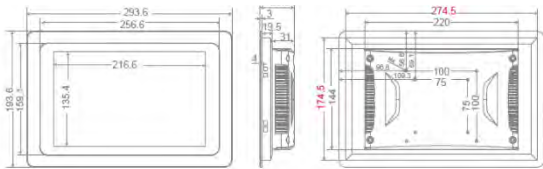# ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-101A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

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Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	10.1" TFT LCD
Resolution	1280×800
Viewing Angle	85/85/85/85 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	1000:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	1* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 293.6 x H 193.6 x D 58.0 mm
Cut-Out	W 276.5 x H 176.5 mm

PRODUCT ORDERING CODES

Processor	CPU	Body Color: Black		Body Color: Silver	
	PCAP	Resistive	PCAP	Resistive
RockChip RK3399	IPC4-101A-210-3399	IPC4-101A-220-3399	IPC4-101A-211-3399	IPC4-101A-221-3399
RockChip RK3568	IPC4-101A-210-3568	IPC4-101A-220-3568	IPC4-101A-211-3568	IPC4-101A-221-3568
RockChip RK3588	IPC4-101A-210-3588	IPC4-101A-220-3588	IPC4-101A-211-3588	IPC4-101A-221-3588

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İSTANBUL ANKARA BURSA

Industrial Computer Center
PLOVDIV
info@industrialcomputercenter.com
www.industrialcomputercenter.com

info@iccdigital.eu
www.iccdigital.eu
ANTWERP
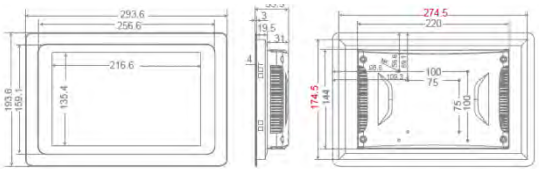
ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-104A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

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IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	10.4" TFT LCD
Resolution	1024×768
Viewing Angle	80/80/80/80 (L/R/U/D)
Colour	16.7M
Brightness	400 cd/m^2
Contrast Ratio	1000:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 288.0 x H 231.0 x D 59.5 mm
Cut-Out	W 273.0 x H 216.0 mm

PRODUCT ORDERING CODES

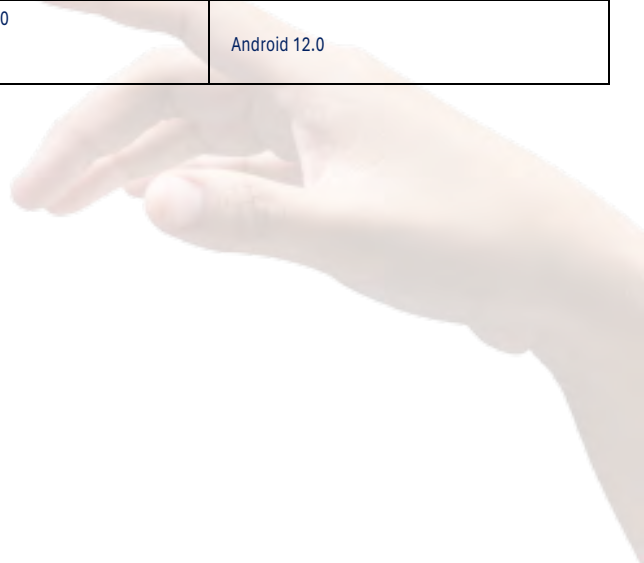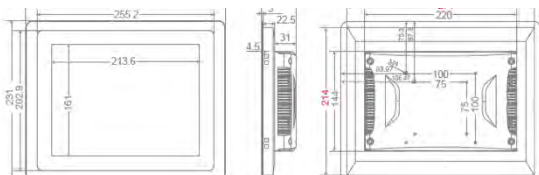| Processor | CPU	Body Color: Black		Body Color: Silver	
	PCAP	Resistive	PCAP	Resistive
RockChip RK3399	IPC4-104A-210-3399	IPC4-104A-220-3399	IPC4-104A-211-3399	IPC4-104A-221-3399
RockChip RK3568	IPC4-104A-210-3568	IPC4-104A-220-3568	IPC4-104A-211-3568	IPC4-104A-221-3568
RockChip RK3588	IPC4-104A-210-3588	IPC4-104A-220-3588	IPC4-104A-211-3588	IPC4-104A-221-3588

ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

| GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM |

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-116A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

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Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	11.6" TFT LCD
Resolution	1920×1080
Viewing Angle	85/85/85/85 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	800:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 323.7 x H 218.5 x D 57.0 mm
Cut-Out	W 311.7 x H 206.5 mm

PRODUCT ORDERING CODES

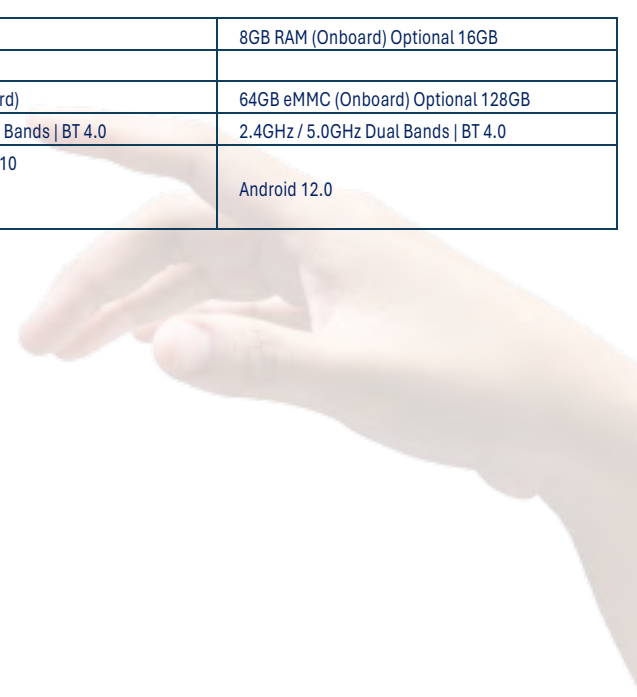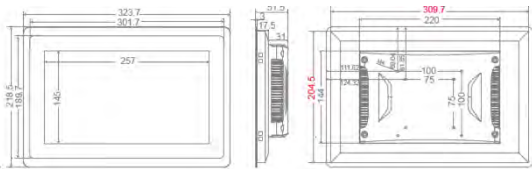| Processor | CPU | Body Color: Black | | Body Color: Silver | |
|---|---|---|---|---|
| | PCAP | Resistive | PCAP | Resistive |
| RockChip RK3399 | IPC4-116A-210-3399 | | IPC4-116A-211-3399 | |
| RockChip RK3568 | IPC4-116A-210-3568 | | IPC4-116A-211-3568 | |
| RockChip RK3588 | IPC4-116A-210-3588 | | IPC4-116A-211-3588 | |

ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

| GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM |

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-120A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588	Fanless Cooling	12V-36V	IP65 Waterproof	Rich Excuses	7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	12" TFT LCD
Resolution	1024×768
Viewing Angle	85/85/85/85 (L/R/U/D)
Colour	16.7M
Brightness	500 cd/m^2
Contrast Ratio	1000:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 319.0 x H 257 x D 59.5 mm
Cut-Out	W 305.1 x H 243.6 mm

PRODUCT ORDERING CODES

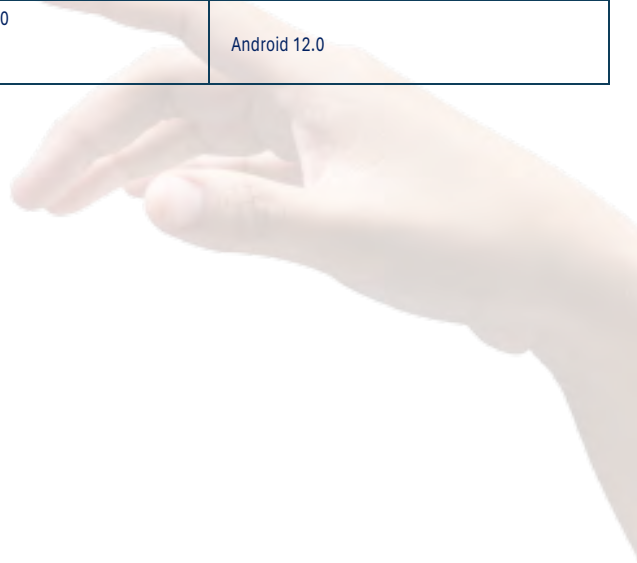| Processor | CPU	Body Color: Black		Body Color: Silver	
	PCAP	Resistive	PCAP	Resistive
RockChip RK3399	IPC4-120A-210-3399	IPC4-120A-220-3399	IPC4-120A-211-3399	IPC4-120A-221-3399
RockChip RK3568	IPC4-120A-210-3568	IPC4-120A-220-3568	IPC4-120A-211-3568	IPC4-120A-221-3568
RockChip RK3588	IPC4-120A-210-3588	IPC4-120A-220-3588	IPC4-120A-211-3588	IPC4-120A-221-3588

ANDROID PANEL PC

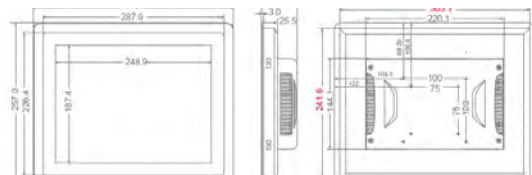## PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

| GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM |

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-121A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	12.1" TFT LCD
Resolution	1280×800
Viewing Angle	85/85/85/85 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	1000:1

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 330.0 x H 227.3 x D 53.5 mm
Cut-Out	W 316.5 x H 214.3 mm

PRODUCT ORDERING CODES

Processor	CPU	Body Color: Black		Body Color: Silver	
	PCAP	Resistive	PCAP	Resistive
RockChip RK3399	IPC4-121A-210-3399	IPC4-121A-220-3399	IPC4-121A-211-3399	IPC4-121A-221-3399
RockChip RK3568	IPC4-121A-210-3568	IPC4-121A-220-3568	IPC4-121A-211-3568	IPC4-121A-221-3568
RockChip RK3588	IPC4-121A-210-3588	IPC4-121A-220-3588	IPC4-121A-211-3588	IPC4-121A-221-3588

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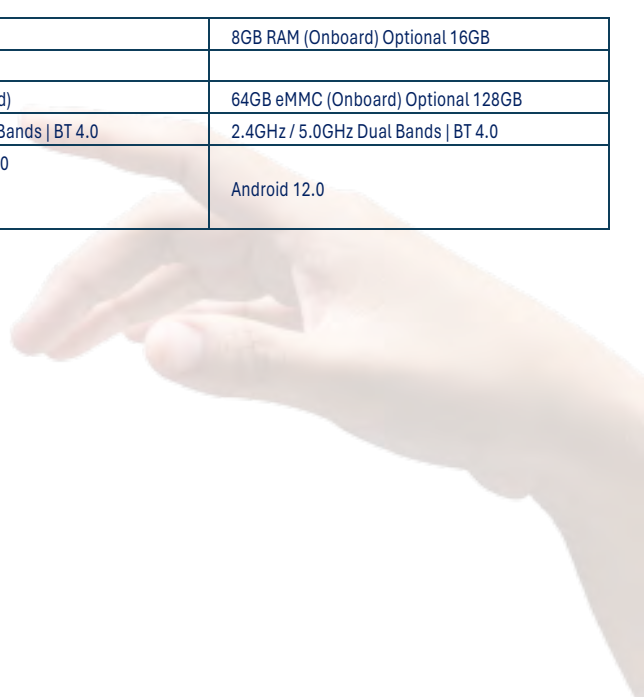
ANDROID PANEL PC

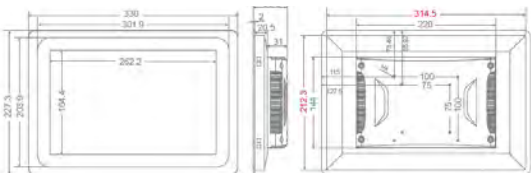## PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

| GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM |

PRODUCT INSTALLATION TYPES

| Embedded Installation | Wall Mounted Installation | Desktop Installation | Louver Installation | Cantilever Installation | Boom Type Installation |

ANDROID PANEL PC

IPC4-133A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	13.3" TFT LCD
Resolution	1920×1080
Viewing Angle	85/85/85/85 (L/R/U/D)
Colour	16.7M
Brightness	220 cd/m^2
Contrast Ratio	1000:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 373.6 x H 245.2 x D 57.0 mm
Cut-Out	W 357.4 x H 229.0 mm

PRODUCT ORDERING CODES

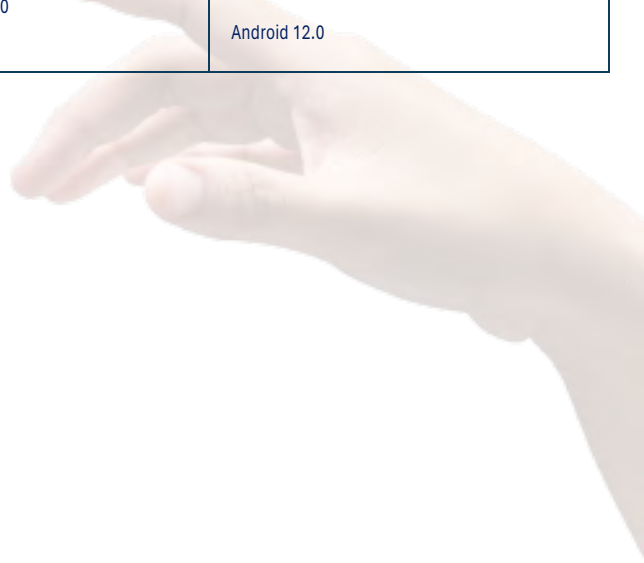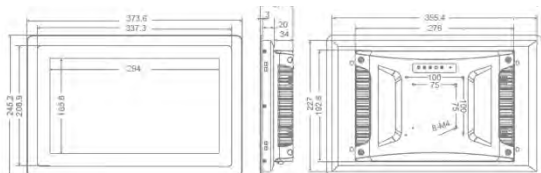| Processor | CPU | Body Color: Black | | Body Color: Silver | |
|---|---|---|---|---|
| | PCAP | Resistive | PCAP | Resistive |
| RockChip RK3399 | IPC4-133A-210-3399 | IPC4-133A-220-3399 | IPC4-133A-211-3399 | IPC4-133A-221-3399 |
| RockChip RK3568 | IPC4-133A-210-3568 | IPC4-133A-220-3568 | IPC4-133A-211-3568 | IPC4-133A-221-3568 |
| RockChip RK3588 | IPC4-133A-210-3588 | IPC4-133A-220-3588 | IPC4-133A-211-3588 | IPC4-133A-221-3588 |

ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

| GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM |

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-150A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	15" TFT LCD
Resolution	1024×768
Viewing Angle	89/89/89/89 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	1000:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 379.8 x H 300.0 x D 63.6 mm
Cut-Out	W 363.0 x H 283.0 mm

PRODUCT ORDERING CODES

Processor | CPU	Body Color: Black		Body Color: Silver	
	PCAP	Resistive	PCAP	Resistive
RockChip RK3399	IPC4-150A-210-3399	IPC4-150A-220-3399	IPC4-150A-211-3399	IPC4-150A-221-3399
RockChip RK3568	IPC4-150A-210-3568	IPC4-150A-220-3568	IPC4-150A-211-3568	IPC4-150A-221-3568
RockChip RK3588	IPC4-150A-210-3588	IPC4-150A-220-3588	IPC4-150A-211-3588	IPC4-150A-221-3588

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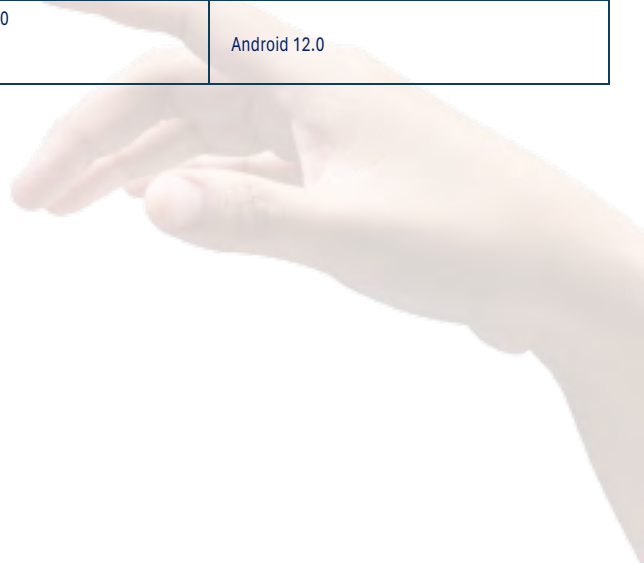www.iccdigital.eu
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ANDROID PANEL PC

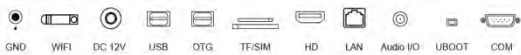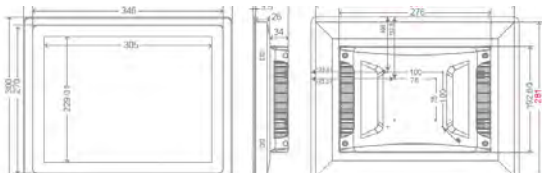## PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

| GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM |

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-156A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	15.6" TFT LCD
Resolution	1920×1080
Viewing Angle	85/85/85/85 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	800:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 420.0 x H 269.0 x D 70.0 mm
Cut-Out	W 403.0 x H 252.0 mm

PRODUCT ORDERING CODES

Processor	CPU	Body Color: Black		Body Color: Silver	
	PCAP	Resistive	PCAP	Resistive
RockChip RK3399	IPC4-156A-210-3399	IPC4-156A-220-3399	IPC4-156A-211-3399	IPC4-156A-221-3399
RockChip RK3568	IPC4-156A-210-3568	IPC4-156A-220-3568	IPC4-156A-211-3568	IPC4-156A-221-3568
RockChip RK3588	IPC4-156A-210-3588	IPC4-156A-220-3588	IPC4-156A-211-3588	IPC4-156A-221-3588

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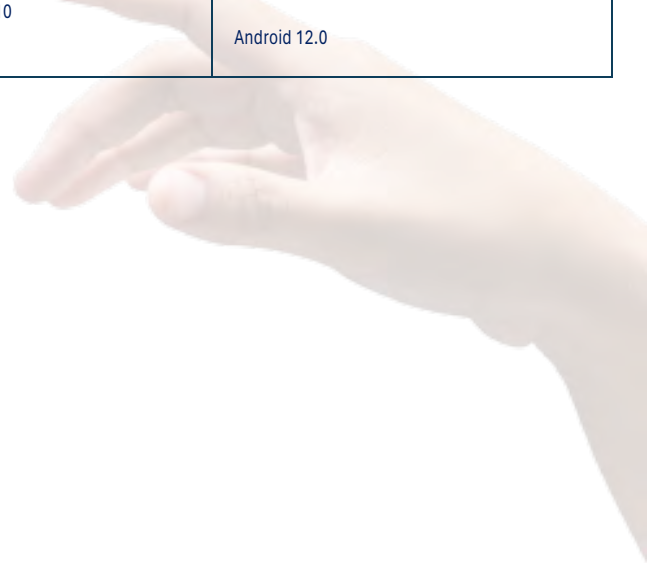www.iccdigital.eu
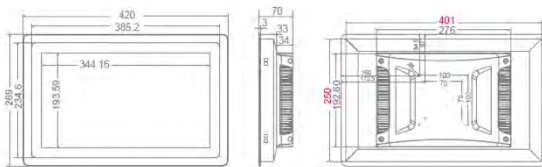ANTWERP

ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

| GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM |

PRODUCT INSTALLATION TYPES

| Embedded Installation | Wall Mounted Installation | Desktop Installation | Louver Installation | Cantilever Installation | Boom Type Installation |

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ANDROID PANEL PC

IPC4-170A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	17" TFT LCD
Resolution	1280×1024
Viewing Angle	85/85/80/70 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	1000:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	60W

Dimensions

Outer	W 414.0 x H 345.0 x D 63.0 mm
Cut-Out	W 397.6 x H 328.6 mm

PRODUCT ORDERING CODES

Processor	CPU	Body Color: Black		Body Color: Silver	
	PCAP	Resistive	PCAP	Resistive
RockChip RK3399	IPC4-170A-210-3399	IPC4-170A-220-3399	IPC4-170A-211-3399	IPC4-170A-221-3399
RockChip RK3568	IPC4-170A-210-3568	IPC4-170A-220-3568	IPC4-170A-211-3568	IPC4-170A-221-3568
RockChip RK3588	IPC4-170A-210-3588	IPC4-170A-220-3588	IPC4-170A-211-3588	IPC4-170A-221-3588

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ANTWERP
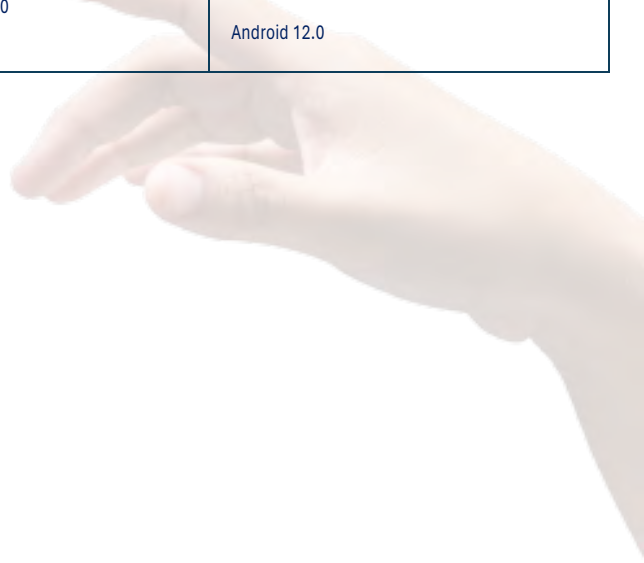
ANDROID PANEL PC

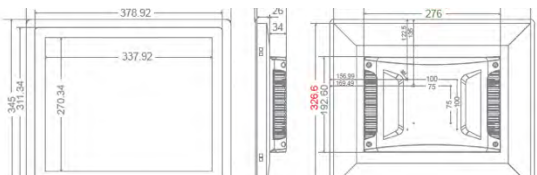## PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-173A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	17.3" TFT LCD
Resolution	1920×1080
Viewing Angle	80/80/60/80 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	600:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	18W

Dimensions

Outer	W 458.0 x H 291.0 x D 67.0 mm
Cut-Out	W 441.0 x H 274.0 mm

PRODUCT ORDERING CODES

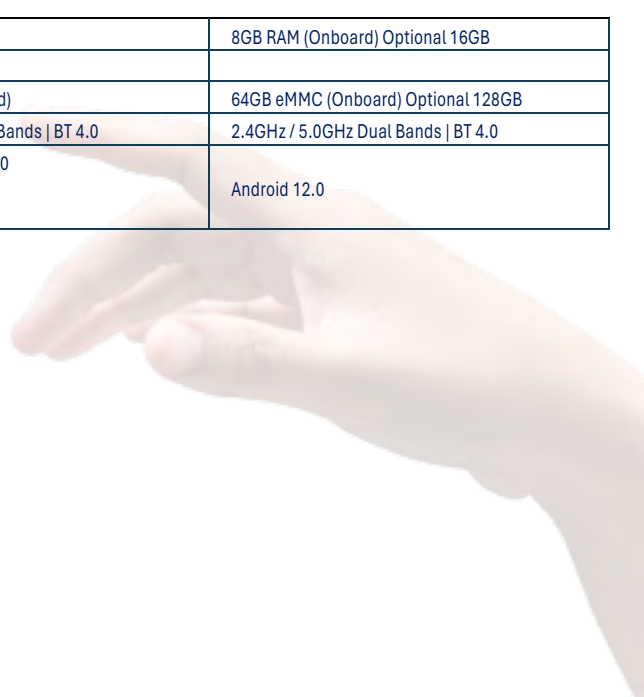| Processor | CPU | Body Color: Black | | Body Color: Silver | |
|---|---|---|---|---|
| | PCAP | Resistive | PCAP | Resistive |
| RockChip RK3399 | IPC4-173A-210-3399 | IPC4-173A-220-3399 | IPC4-173A-211-3399 | IPC4-173A-221-3399 |
| RockChip RK3568 | IPC4-173A-210-3568 | IPC4-173A-220-3568 | IPC4-173A-211-3568 | IPC4-173A-221-3568 |
| RockChip RK3588 | IPC4-173A-210-3588 | IPC4-173A-220-3588 | IPC4-173A-211-3588 | IPC4-173A-221-3588 |

ANDROID PANEL PC

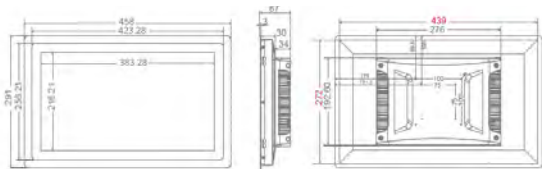## PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-185A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	18.5" TFT LCD
Resolution	1920×1080
Viewing Angle	89/89/89/89 (L/R/U/D)
Colour	16.7M
Brightness	400 cd/m^2
Contrast Ratio	1000:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	18W

Dimensions

Outer	W 486.5 x H 370.4 x D 67.0 mm
Cut-Out	W 470.0 x H mm

PRODUCT ORDERING CODES

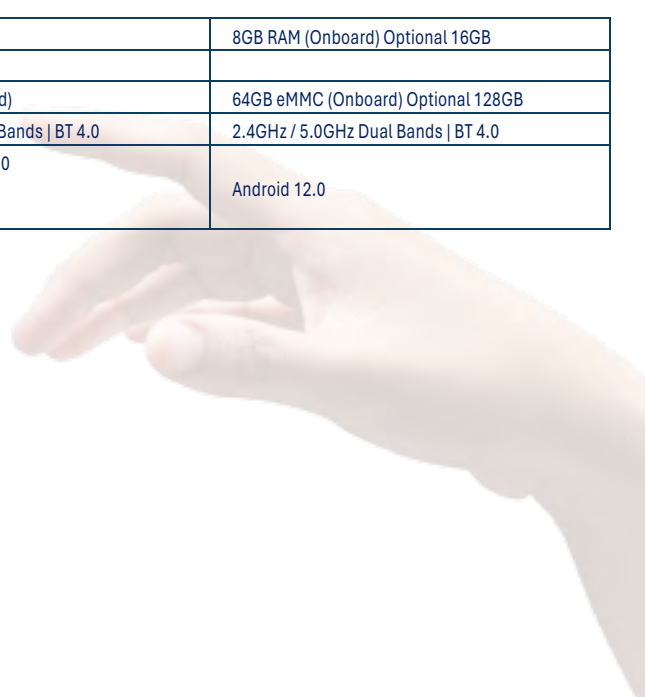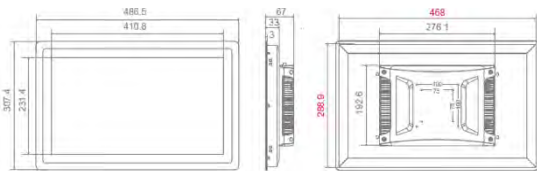| Processor | CPU | Body Color: Black | | Body Color: Silver | |
|---|---|---|---|---|
| | PCAP | Resistive | PCAP | Resistive |
| RockChip RK3399 | IPC4-185A-210-3399 | IPC4-185A-220-3399 | IPC4-185A-211-3399 | IPC4-185A-221-3399 |
| RockChip RK3568 | IPC4-185A-210-3568 | IPC4-185A-220-3568 | IPC4-185A-211-3568 | IPC4-185A-221-3568 |
| RockChip RK3588 | IPC4-185A-210-3588 | IPC4-185A-220-3588 | IPC4-185A-211-3588 | IPC4-185A-221-3588 |

ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-190A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	19" TFT LCD
Resolution	1280×1024
Viewing Angle	85/85/80/80 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	1000:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	18W

Dimensions

Outer	W 451.0 x H 380.0 x D 63.0 mm
Cut-Out	W 434.6 x H 363.6 mm

PRODUCT ORDERING CODES

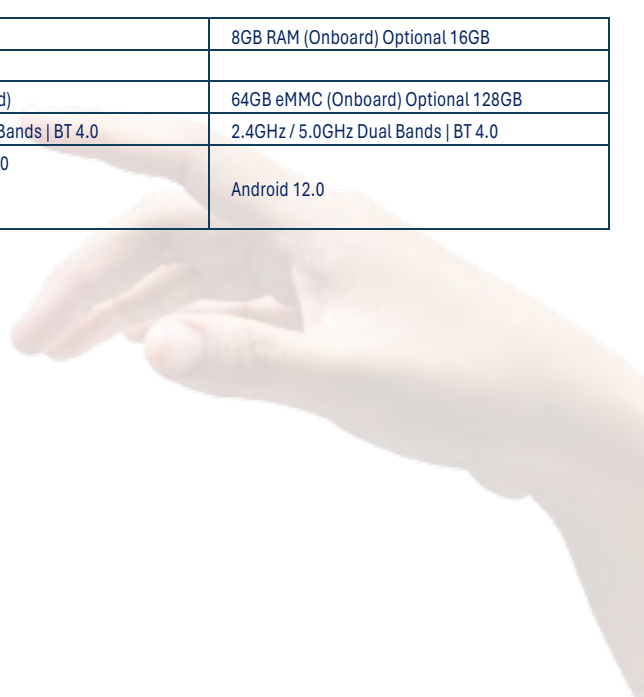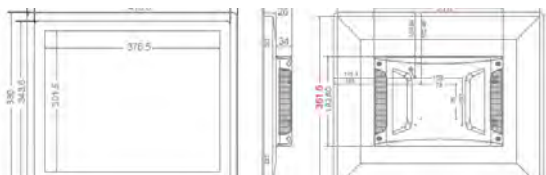| Processor | CPU | Body Color: Black | | Body Color: Silver | |
|---|---|---|---|---|
| | PCAP | Resistive | PCAP | Resistive |
| RockChip RK3399 | IPC4-190A-210-3399 | IPC4-190A-220-3399 | IPC4-190A-211-3399 | IPC4-190A-221-3399 |
| RockChip RK3568 | IPC4-190A-210-3568 | IPC4-190A-220-3568 | IPC4-190A-211-3568 | IPC4-190A-221-3568 |
| RockChip RK3588 | IPC4-190A-210-3588 | IPC4-190A-220-3588 | IPC4-190A-211-3588 | IPC4-190A-221-3588 |

ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

| GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM |

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-191A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	19.1" TFT LCD
Resolution	1440×900
Viewing Angle	80/80/80/80 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	1000:1

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST ＋ 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	18W

Dimensions

Outer	W 486.0 x H 332.0 x D 63.0 mm
Cut-Out	W 469.6 x H 315.6 mm

PRODUCT ORDERING CODES

Processor	CPU	Body Color: Black		Body Color: Silver	
	PCAP	Resistive	PCAP	Resistive
RockChip RK3399	IPC4-191A-210-3399	IPC4-191A-220-3399	IPC4-191A-211-3399	IPC4-191A-221-3399
RockChip RK3568	IPC4-191A-210-3568	IPC4-191A-220-3568	IPC4-191A-211-3568	IPC4-191A-221-3568
RockChip RK3588	IPC4-191A-210-3588	IPC4-191A-220-3588	IPC4-191A-211-3588	IPC4-191A-221-3588

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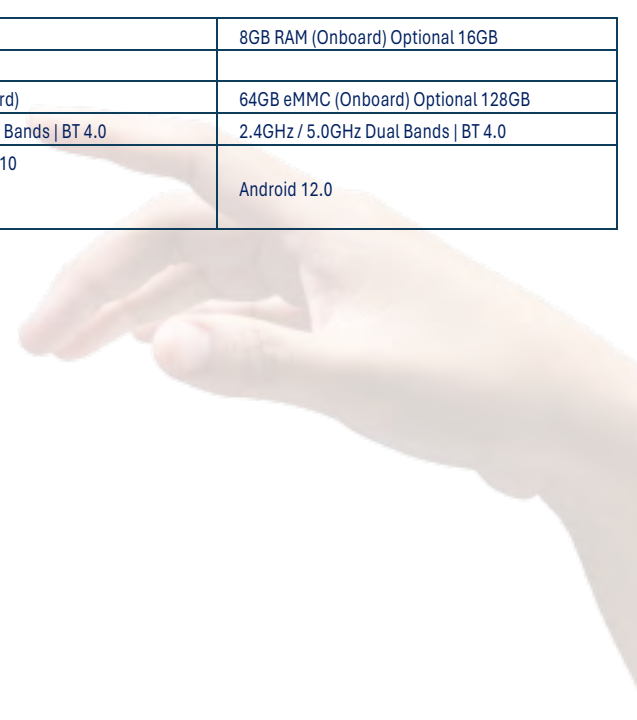www.iccdigital.eu

ANTWERP
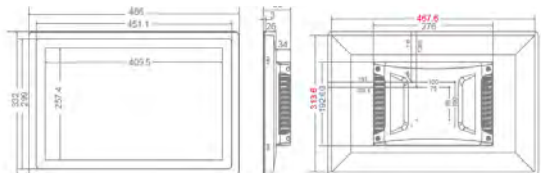
ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O. | UBOOT | COM

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-215A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

Rockchip RK3399-RK3568-RK3588 | Fanless Cooling | 12V-36V | IP65 Waterproof | Rich Excuses | 7*24 Hour Operation

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	21.5" TFT LCD
Resolution	1920×1080
Viewing Angle	89/89/89/89 (L/R/U/D)
Colour	16.7M
Brightness	300 cd/m^2
Contrast Ratio	1000:1

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	18W

Dimensions

Outer	W 557.0 x H 345.0 x D 65.0 mm
Cut-Out	W 540.6 x H 328.6 mm

PRODUCT ORDERING CODES

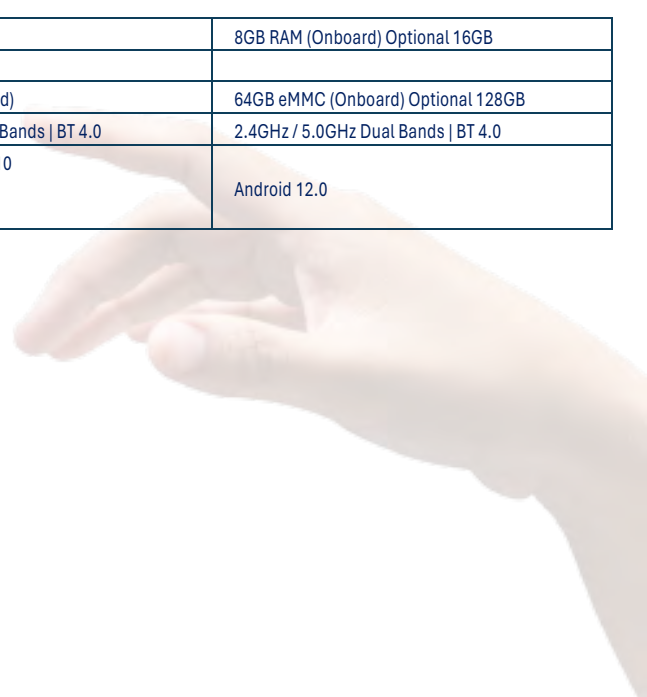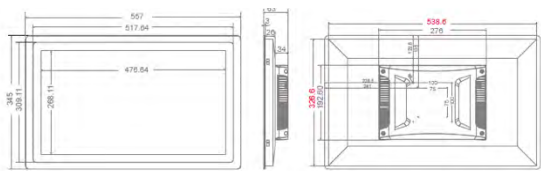| Processor | CPU | Body Color: Black | | Body Color: Silver | |
|---|---|---|---|---|
| | PCAP | Resistive | PCAP | Resistive |
| RockChip RK3399 | IPC4-215A-210-3399 | IPC4-215A-220-3399 | IPC4-215A-211-3399 | IPC4-215A-221-3399 |
| RockChip RK3568 | IPC4-215A-210-3568 | IPC4-215A-220-3568 | IPC4-215A-211-3568 | IPC4-215A-221-3568 |
| RockChip RK3588 | IPC4-215A-210-3588 | IPC4-215A-220-3588 | IPC4-215A-211-3588 | IPC4-215A-221-3588 |

ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0	2.4GHz / 5.0GHz Dual Bands | BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

| GND | WIFI | DC 12V | USB | OTG | TF/SIM | HD | LAN | Audio I/O | UBOOT | COM |

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation

ANDROID PANEL PC

IPC4-238A

IPC4 Android operating system-based industrial computers are all of which incorporate our independently developed industrial motherboards. With various configuration options to suit a wide array of application requirements, these computers boast a 3mm ultra-thin front frame that seamlessly integrates with various cabinet equipment. Their aluminum alloy structure, fanless fully closed design, and front panel with a pure flat wire drawing process ensure both durability and an elegant appearance. In addition, these systems are equipped with dust prevention and waterproof features, making them suitable for various environments. Furthermore, they offer excellent scalability, practicality, and EMC compatibility, making them a versatile choice for your computing needs.

FEATURES

Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel
Industrial Motherboard with ARM Architecture
EMC Anti-Electromagnetic Interference Compliance
Industrial-Grade Protection for Versatile Environments
SDK Package Included for Secondary Development Support
Ultra-slim 3mm Front Bezel for Embedded Cabinets
IP65 Dust-Proof and Waterproof Flat Panel

PRODUCT SPECIFICATIONS

Screen Parameters

LCD Size	23.8" TFT LCD
Resolution	1920×1080
Viewing Angle	89/89/89/89 (L/R/U/D)
Colour	16.7M
Brightness	250 cd/m^2
Contrast Ratio	1000:1

Touch Screen

Touch Screen Type	10 Point Touch PCAP & Resistive
Light Transmittance	≥88%
Input Mode	Handwriting or Capacitive Pen
Controller Communication	USB

Interface

HDMI	1* HDMI, Support HDMI Data Output, 1080p
USB	1*USB HOST + 1*USB OTG
LAN	2* LAN, Dual 1000M Adaptive Ethernet
AUDIO	1* Audio I/O, Support Audio Input and Output
Serial Port	2* RS232
Restart Key	Support (1*UBOOT)

Power Parameters

Input Voltage	DC 12V-36V - Double Input (Not Redundant)
Static Power	18W

Dimensions

Outer	W 606 x H 376 x D 67 mm
Cut-Out	W 589.8 x H 359.8 mm

PRODUCT ORDERING CODES

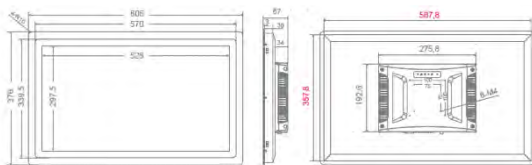| Processor | CPU | Body Color: Black | | Body Color: Silver | |
|---|---|---|---|---|
| | PCAP | Resistive | PCAP | Resistive |
| RockChip RK3399 | IPC4-238A-210-3399 | IPC4-238A-220-3399 | IPC4-238A-211-3399 | IPC4-238A-221-3399 |
| RockChip RK3568 | IPC4-238A-210-3568 | IPC4-238A-220-3568 | IPC4-238A-211-3568 | IPC4-238A-221-3568 |
| RockChip RK3588 | IPC4-238A-210-3588 | IPC4-238A-220-3588 | IPC4-238A-211-3588 | IPC4-238A-221-3588 |

ANDROID PANEL PC

PROCESSOR MODELS | CPU

CPU	RockChip RK3399, Dual-2ore Cortex-A72 1.8GHz + Quad-2ore Cortex-A53 1.4GHz	RockChip RK3568, Quad-2ore 64-bit Cortex-A55 Core Architecture, up to 2.0GHz	RockChip RK3588, Octa-2ore 64-bit (4×Cortex-A76+4×Cortex-A55) at 2.4GHz
GPU	Mali-T860MP4	ARM Mali-G52 2EE	Mali-G610 MC4
NPU	-	Built-in NPU with 1TOPS AI computing power	Built-in NPU with 6TOPS AI Computing Power

RAM	4GB RAM (Onboard)	8GB RAM (Onboard)	8GB RAM (Onboard) Optional 16GB
NPU			
Storage	64GB eMMC (Onboard)	128GB eMMC (Onboard)	64GB eMMC (Onboard) Optional 128GB
Wi-Fi - Bluetooth	2.4GHz / 5.0GHz Dual Bands	BT 4.0	2.4GHz / 5.0GHz Dual Bands	BT 4.0	2.4GHz / 5.0GHz Dual Bands	BT 4.0
Operating System	Android 7.1/9.0/11/ Ubuntu18.04/Debian10.0/ Linux4.4+QT	Android 12.0/ Linux 5.10	Android 12.0

Working Temperature	-10ºC~60ºC
Storage Temperature	-20ºC~70ºC
Relative Humidity	95% Non-Condensing
Vibration Protection	IEC 60068-2-64, 5 ~ 500 Hz, 1 hr/axis
Product Certification	CCC/CE/FCC/EMC/CB/ROHS
Impact Protection	IEC 60068-2-27, Half sine wave F 11ms
Product Certification	CCC/CE/FCC/EMC/CB/ROHS

DIMENSIONS AND INTERFACES

PRODUCT INSTALLATION TYPES

Embedded Installation	Wall Mounted Installation	Desktop Installation	Louver Installation	Cantilever Installation	Boom Type Installation