Classic IPC series

TOUCH

PRODUCT BROCHURE



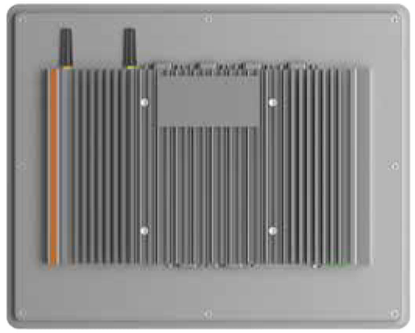


ООО " АТ-РА" г. Санкт-Петербург
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ZD series

IPC ZD series industrial panel PC is made of all aluminum, exclusive custom cast aluminum panel, the whole machine is solid and reliable. Fanless design, fully enclosed dustproof anti-interference, zero noise, with high-performance processor, can be in extreme temperature, humidity, electromagnetic interference and other harsh environments stable operation.





anti-interference | strong protection | high performance | customi-zation

Product Features

- Die-casting aluminum front frame, aluminum profile back cover
- Projected capacitive touch screen, 10-point touch control
- Support win10/win11 and Linux system.
- Front running status light, running status visualization
- Rich interfaces, strong compatibility, can be customized according to needs
- Self-developed industrial motherboard, anti-surge shock, anti-static interference

Application Scenario

IPC ZD adopts self-developed series of industrial motherboards with powerful processing capability and stability. Compact fanless design, flexible adaptability makes it play a key role in the process of intelligence and automation, such as automotive manufacturing, machine vision inspection terminals, MES workstations, digital signage and other industrial automation fields, as well as self-service terminals, logistics warehousing, smart city monitoring and other IoT fields.


INDUSTRIAL AUTOMATION PRODUCTION


PRODUCTION CONTROL

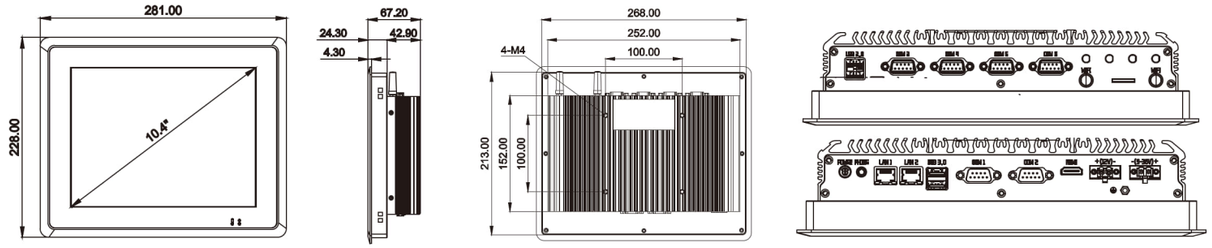

MES WORKSTATION


VISUAL INSPECTION TERMINAL


SELF-SERVICE TERMINAL

104ZD-Outline Dimension

Unit: mm



Product Parameters

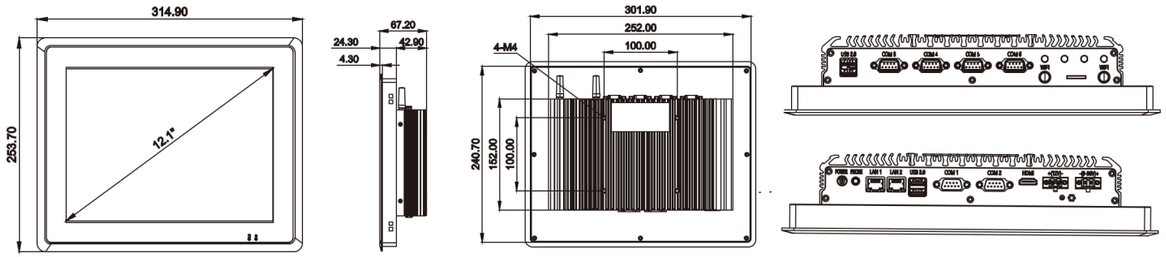
Product Model : 104ZD		Machine size: 281*228*67.2mm	Cooling method: fanless
Display screen :10.4 inches		Cutting size 270*215mm	Support wall-mounted/embedded/desktop installation
Touch screen :10-point capacitive touch		Color: black + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution :1024*768		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness :500cd/m²		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power supply	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)
Function	Support WIFI/Bluetooth/4G/5G/watchdog	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	104ZD-7A*	7th generation A	7th generation i3/i5/i7*	1*SO-DIMM	1*8111H	2	1	2	6	12V (optional 9-36V)
2	104ZD-7B*	7th Generation Model B	7th generation i3/i5/i7*	1*SO-DIMM	2*8111H	6	1	2	6	12V (optional 9-36V)
3	104ZD-10B*	10th Generation B	10th generation i3/i5/i7*	2*SO-DIMM	2*8111H	6	1	2	6	12V (optional 9-36V)
4	104ZD-12B*	12th Generation B	12th generation i3/i5/i7*	2*SO-DIMM	2*8111H	6	1	2	6	12V (optional 9-36V)

121ZD-Outline Dimension

Unit: mm



Product Parameters

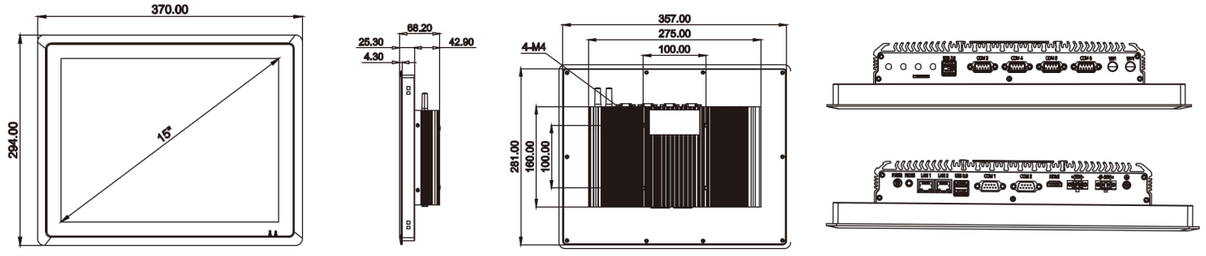
Product Model : 121ZD		Machine size: 314.9*253.7*67.2mm	Cooling method: fanless
Display screen: 12.1 inches		Cutting size 303.9*242.7mm	Support wall-mounted/embedded/desktop installation
Touch screen :10-point capacitive touch		Color: black + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution :1024*768		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness: 350cd/m²		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN		
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power supply	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	121ZD-7A*	7th generation A	7th generation i3/i5/i7*	1*SO-DIMM	1*8111H	2	1	2	6	12V (optional 9-36V)
2	121ZD-7B*	7th Generation Model B	7th generation i3/i5/i7*	1*SO-DIMM	2*8111H	6	1	2	6	12V (optional 9-36V)
3	121ZD-10B*	10th Generation B	10th generation i3/i5/i7*	2*SO-DIMM	2*8111H	6	1	2	6	12V (optional 9-36V)
4	121ZD-12B*	12th Generation B	12th generation i3/i5/i7*	2*SO-DIMM	2*8111H	6	1	2	6	12V (optional 9-36V)

150ZD-Outline Dimension

Unit: mm



Product Parameters

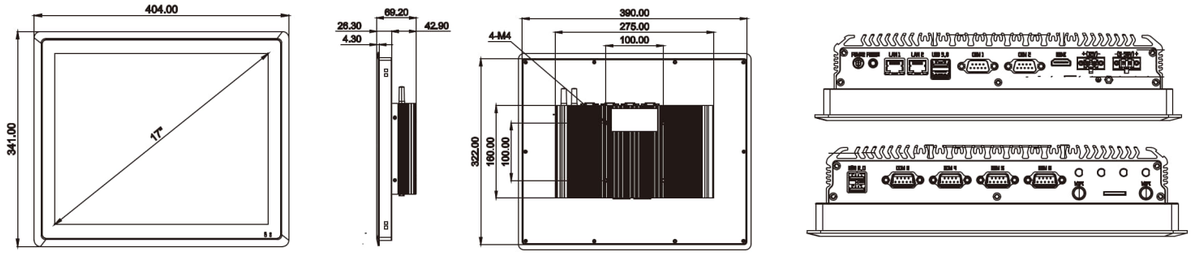
Product Model : 150ZD		Machine size: 370*294*68.2mm	Cooling method: fanless
Display screen :15 inches		Cutting size 359*283mm	Support wall-mounted/embedded/desktop installation
Touch screen :10-point capacitive touch		Color: black + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution :1024*768		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness: 450cd/m²		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel®	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE,	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports	1*M.2 2280 SSD (supports SATA/NVMe	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk	1*2.5-inch SATA hard disk slot (7mm	1*2.5-inch SATA hard disk slot (7mm hard	1*2.5-inch SATA hard disk slot (7mm hard disk optional)
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power supply	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)
Function	Support WIFI/Bluetooth/4G/5G/watchdog	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function
operating	Windows7/Windows10/Windows11/	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	150ZD-7A*	7th generation A	7th generation i3/i5/i7*	1*SO-DIMM	1*8111H	2	1	2	6	12V (optional 9-36V)
2	150ZD-7B*	7th Generation	7th generation i3/i5/i7*	1*SO-DIMM	2*8111H	6	1	2	6	12V (optional 9-36V)
3	150ZD-10B*	10th Generation B	10th generation i3/i5/i7*	2*SO-DIMM	2*8111H	6	1	2	6	12V (optional 9-36V)
4	150ZD-12B*	12th Generation B	12th generation i3/i5/i7*	2*SO-DIMM	2*8111H	6	1	2	6	12V (optional 9-36V)

170ZD-Outline Dimension

Unit：mm



Product Parameters

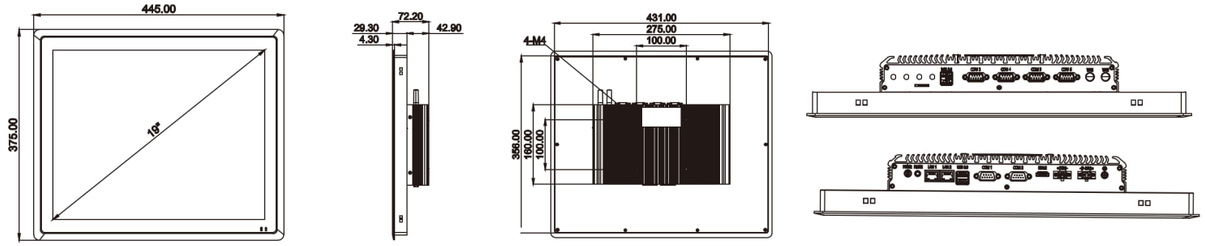
Product Model: 170ZD		Machine size: 404*341*69.2mm	Cooling method: fanless
Display screen: 17 inches		Cutting size 392*324mm	Support wall-mounted/embedded/desktop installation
Touch screen: 10-point capacitive touch		Machine color: gray + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution :1280*1024		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness: 250cd/m^2		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN		
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)		
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk optional)		
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch signal)	2*DB9 (RS232/RS485 switch signal)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power supply	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	170ZD-7A*	7th generation A	7th generation i3/i5/i7*	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	170ZD-7B*	7th Generation	7th generation i3/i5/i7*	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	170ZD-10B*	10th Generation B	10th generation i3/i5/i7*	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	170ZD-12B*	12th Generation B	12th generation i3/i5/i7*	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

190ZD-Outline Dimension

Unit：mm



Product Parameters

Product Model 190ZD		Machine size: 445*375*72.2mm	Cooling method: fanless
Display screen 19 inches		Cutting size 433*368mm	Support wall-mounted/embedded/desktop installation
Touch screen 10-point capacitive touch		Machine color: gray + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution 1280*1024		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness 250cd/m^2		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)		
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	190ZD-7A*	7th generation A	7th generation i3/i5/i7*	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	190ZD-7B*	7th Generation Model	7th generation i3/i5/i7*	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	190ZD-10B*	10th Generation B	10th generation i3/i5/i7*	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	190ZD-12B*	12th Generation B	12th generation i3/i5/i7*	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

WD series

IPC **W**D series l industrial panel PC is made of all aluminum, exclusive customized aluminum profile frame, the whole machine is solid and reliable. Fanless design, fully enclosed dustproof anti-interference, zero noise, with high-performance processor, can be in extreme temperature,humidity, electromagnetic interference and other harsh environments stable operation.





anti-interference | strong protection | high performance | customi-zation

Product Features

- Customized industrial-grade aluminum front frame structure, aluminum back cover
- Projected capacitive touch screen, 10-point touch control
- Support win10/win11 and Linux system.
- Front running status light, running status visualization
- Built-in dual copper pipe cooling, more efficient heat dissipation
- Rich interfaces, strong compatibility, can be customized according to requirements

Application Scenario

IPC D adopts self-developed series of industrial motherboards with powerful processing capability and stability. Compact fanless design and flexible adaptability make it play a key role in the process of intelligence and automation, such as automotive manufacturing, machine vision inspection terminals, MES workstations, digital kanban and other industrial automation fields as well as self-serviceterminals, logistics and warehousing, smart city monitoring and other IoT fields.



INDUSTRIAL AUTOMATION PRODUCTION



PRODUCTION CONTROL



MES WORKSTATION



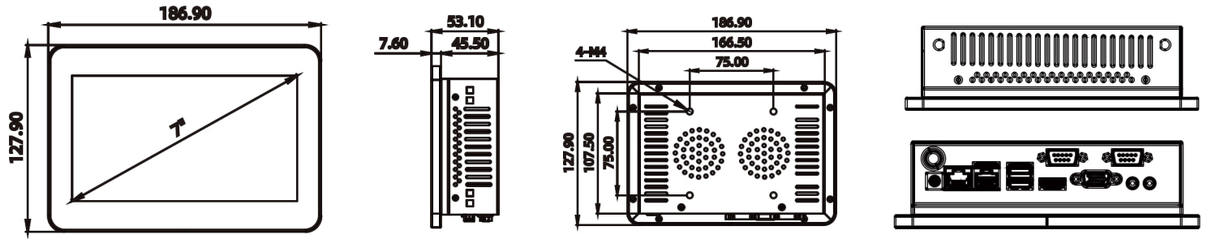
VISUAL INSPECTION TERMINAL



SELF-SERVICE TERMINAL

070WD-Outline Dimension

Unit: mm



Product Parameters

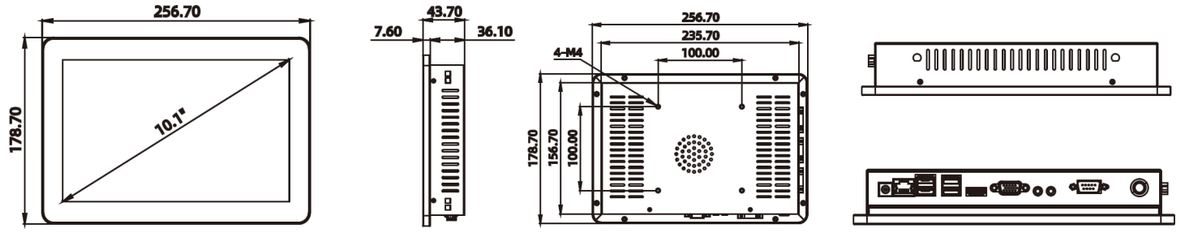
Product Model 070WD		Machine size: 186.9*127.9*53.1mm	Cooling method: fan
Display screen 7 inches		Opening size 168.5*109.5mm	Support wall-mounted/embedded/desktop installation
Touch screen 10-point capacitive touch		Machine color: black	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution 1920*1080		Chassis material: Aluminum profile structure, sheet metal back case	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness 300cd/m^2		Speaker 2*8Ω 2w	
processor	Supports Intel® Celeron® Bay Trail J1900 processor	Intel® Celeron® Elkhart Lake J6412 Processor	Support Intel® Ivy Bridge 3rd generation/Kaby Lake 6th/7th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Integrated Intel® HD Graphics	Integrated 10th Generation Intel® UHD Graphics	3rd generation integrated Intel® HD Graphics 4000, 6th/7th generation integrated HD Graphics 620
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN		
Sound	Realtek ALC269HD	Realtek ALC269HD	Realtek ALC269HD
Memory	Single slot Max 8G	Single slot Max 16G	Single slot Max 16G
External IO interface	1*DC IN	1*DC IN	1*DC IN
	1*HDMI	1*HDMI	1*HDMI
	1*VGA	1*VGA	1*VGA
	1*USB3.0/3*USB2.0 (2*USB2.0 can be replaced by LAN)	2*USB3.0/2*USB2.0 (2*USB2.0 can be replaced by LAN)	
	1*LAN (dual network ports optional)	1*LAN (dual network ports optional)	1*LAN (dual network ports optional)
	1*LINE-OUT, 1*MIC-IN (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	5*USB2.0 pins	8*USB2.0 pins	8*USB2.0 pins
	6*COM pins (COM2 supports RS232/RS422/RS485 signals	6*COM pins (COM2 supports R232/RS485 signal optional)	
	1*GPIO pin (4 channels)	1*LPT pin (16-way GPIO switchable)	1*LPT pin (16-way GPIO switchable)
	1*SATA socket	1*SATA socket	1*SATA socket
Expansion slots	1*MINI-PCIE (4G module/WIFI/BT	1*M.2 KeyB 3052 (4G/5G module)	1*MINI-PCIE (4G module/WIFI/BT module)
	1*MINI-SATA (SATA hard disk)	1*M.2 KeyA 2230 (WIFI/BT module)	The 3rd generation supports 1*MINI-SATA (SATA hard disk), and the 6th/7th generation supports 1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
	/	1*M.2 KeyM 2280 SSD (supports SATA/PCIE protocol)	
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm thick hard disk)	1*2.5-inch SATA hard disk slot (7mm thick hard disk)	1*2.5-inch SATA hard disk slot (7mm thick hard disk)
power	DC12V DC power supply (optional	DC12V DC power supply (optional 9-36V wide voltage	DC12V DC power supply (optional 9-36V wide voltage input)
Function	Support WIFI/Bluetooth/4G//Watchdog function/Automatic start when incoming call		
operating system	Windows7/Windows10/Windows11 /Linux	Windows 10/Windows 11/Linux	Windows7/Windows10/Windows11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	VGA	HDMI	USB3.0	USB2.0	POWER
1	070WD-J19A	J1900A	J1900	1*SO-DIMM	1*8111H	1	1	1	3	12V (optional 9-36V)
2	070WD-J19B	J1900B	J1900	1*SO-DIMM	2*8111H	1	1	1	1	12V (optional 9-36V)
3	070WD-J64A	J6412A	J6412	1*SO-DIMM	1*8111H	1	1	2	2	12V (optional 9-36V)
4	070WD-J64B	J6412B	J6412	1*SO-DIMM	2*8111H	1	1	2	/	12V (optional 9-36V)
5	070WD-31A	3rd Generation	3rd generation i3/i5/i7	1*SO-DIMM	1*8111H	1	1	2	2	12V (optional 9-36V)
6	070WD-32A	3rd Generation	3rd generation i3/i5/i7	1*SO-DIMM	2*8111H	1	1	2	/	12V (optional 9-36V)
7	070WD-6/7A	6/7 generation A	6th/7th generation i3/i5/i7	1*SO-DIMM	1*8111H	1	1	2	2	12V (optional 9-36V)
8	070WD-6/7B	6/7 Generation B	6th/7th generation i3/i5/i7	1*SO-DIMM	2*8111H	1	1	2	/	12V (optional 9-36V)

101WD-Outline Dimension

Unit: mm



Product Parameters

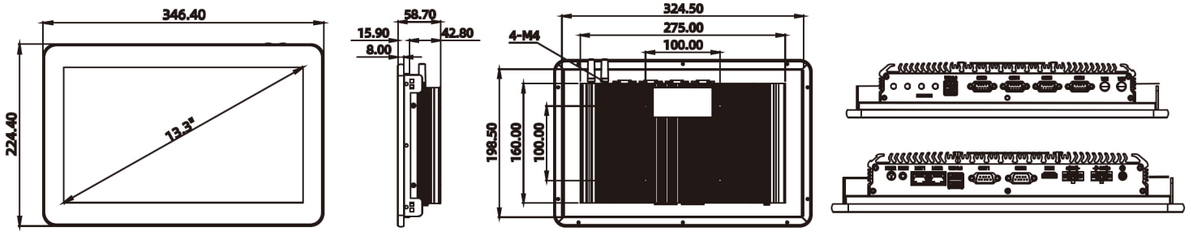
Product Model 101WD		Machine size: 256.7*178.7*43.7mm	Cooling method: fan
Display screen 10.1 inches		Opening size: 237.7*158.7mm	Support wall-mounted/embedded/desktop installation
Touch screen 10-point capacitive touch		Machine color: black	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution 1280*800		Chassis material: Aluminum profile structure, sheet metal back case	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness 350cd/m^2		Speaker 2*8Ω 2w	
processor	Supports Intel® Celeron® Bay Trail J1900 processor	Intel® Celeron® Elkhart Lake J6412 Processor	Support Intel® Ivy Bridge 3rd generation/Kaby Lake 6th/7th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Integrated Intel® HD Graphics	Integrated 10th Generation Intel® UHD Graphics	3rd generation integrated Intel® HD Graphics 4000, 6th/7th generation integrated HD Graphics 620
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN
Sound	Realtek ALC269HD	Realtek ALC269HD	Realtek ALC269HD
Memory	Single slot Max 8G	Single slot Max 16G	Single slot Max 16G
External IO interface	1*DC IN	1*DC IN	1*DC IN
	1*HDMI	1*HDMI	1*HDMI
	1*VGA	1*VGA	1*VGA
	1*USB3.0/3*USB2.0 (2*USB2.0 can be replaced by LAN)		
	1*LAN (dual network ports optional)	1*LAN (dual network ports optional)	1*LAN (dual network ports optional)
	1*LINE-OUT, 1*MIC-IN (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	5*USB2.0 pins	8*USB2.0 pins	8*USB2.0 pins
	6*COM pins (COM2 supports RS232/RS422/RS485 signals optional)	6*COM pins (COM2 supports R232/RS485 signal optional)	6*COM pins (COM2 supports R232/RS485 signal optional)
	1*GPIO pin (4 channels)	1*LPT pin (16-way GPIO switchable)	1*LPT pin (16-way GPIO switchable)
	1*SATA socket	1*SATA socket	1*SATA socket
Expansion slots	1*MINI-PCIE (4G module/WIFI/BT module)	1*M.2 KeyB 3052 (4G/5G module)	1*MINI-PCIE (4G module/WIFI/BT module)
	1*MINI-SATA (SATA hard disk)	1*M.2 KeyA 2230 (WIFI/BT module)	The 3rd generation supports 1*MINI-SATA (SATA hard disk), and the 6th/7th generation supports 1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
	/	1*M.2 KeyM 2280 SSD (supports SATA/PCIE protocol)	
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm thick hard disk)		
power supply	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G//Watchdog function/Automatic start when incoming call		
operating	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows7/Windows10/Windows11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	VGA	HDMI	USB3.0	USB2.0	POWER
1	101WD-J19A	J1900A	J1900	1*SO-DIMM	1*8111H	1	1	1	3	12V (optional 9-36V)
2	101WD-J19B	J1900B	J1900	1*SO-DIMM	2*8111H	1	1	1	1	12V (optional 9-36V)
3	101WD-J64A	J6412A	J6412	1*SO-DIMM	1*8111H	1	1	2	2	12V (optional 9-36V)
4	101WD-J64B	J6412B	J6412	1*SO-DIMM	2*8111H	1	1	2	/	12V (optional 9-36V)
5	101WD-31A	3rd Generation Type A	3rd generation i3/i5/i7	1*SO-DIMM	1*8111H	1	1	2	2	12V (optional 9-36V)
6	101WD-31B	3rd Generation Type B	3rd generation i3/i5/i7	1*SO-DIMM	2*8111H	1	1	2	/	12V (optional 9-36V)
7	101WD-6/7A	6/7 generation A	6th/7th generation i3/i5/i7	1*SO-DIMM	1*8111H	1	1	2	2	12V (optional 9-36V)
8	101WD-6/7B	6/7 Generation B	6th/7th generation i3/i5/i7	1*SO-DIMM	2*8111H	1	1	2	/	12V (optional 9-36V)

133WD-Outline Dimension

Unit: mm



Product Parameters

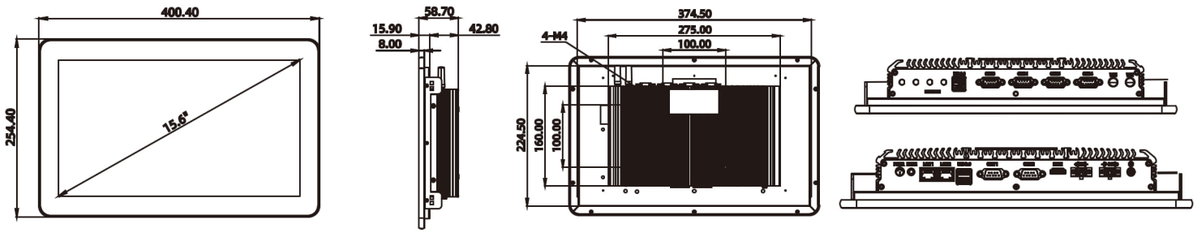
Product Model SK-133WD		Machine size: 346.4*224.4*58.7mm	Cooling method: fanless
Display screen 13.3 inches		Cutting size: 326.5*200.5mm	Support wall-mounted/embedded/desktop installation
Touch screen 10-point capacitive touch		Machine color: black + gun gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution 1920*1080		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness 300cd/m^2		Speaker 2*8Ω 2w	
Processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
Network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)
External IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0 (can be replaced by LAN)	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA socket	1*SATA socket	1*SATA socket
Power supply	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
Operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	SK-133WD-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	SK-133WD-7B	7th Generation Model B	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	SK-133WD-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	SK-133WD-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

156WD-Outline Dimension

Unit: mm



Product Parameters

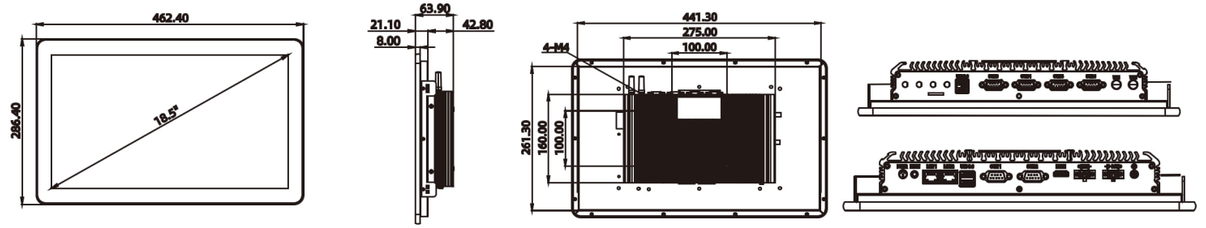
Product Model : 156WD		Machine size: 400.4*254.4*58.7mm	Cooling method: fanless
Display :15.6 inches		Cutting size 376.5*226.5mm	Support wall-mounted/embedded/desktop installation
Touch screen: 10-point capacitive touch		Machine color: black + gun gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution: 1920*1080		Material: cast aluminum panel, aluminum profile back	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness: 250cd/m²		Speaker :2*8Ω 2w	
Processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
Network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)
External IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0 (can be replaced by LAN)	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA socket	1*SATA socket	1*SATA socket
Power supply	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)
Function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function
Operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	156WD-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	156WD-7B	7th Generation Model B	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	156WD-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	156WD-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

185WD-Outline Dimension

Unit: mm



Product Parameters

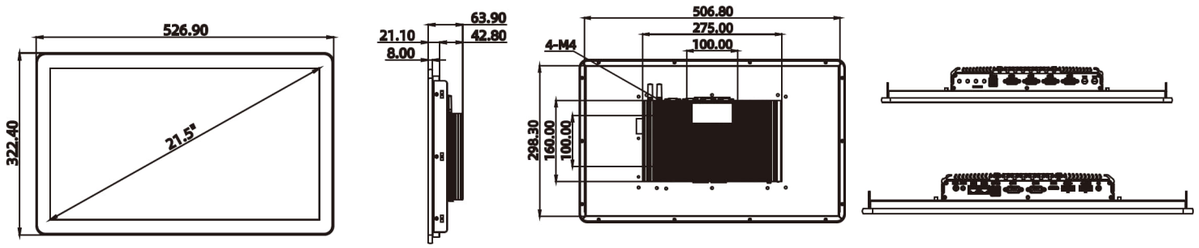
Product Model : 185WD		Machine size: 462.4*286.4*63.9mm	Cooling method: fanless
Display screen :18.5 inches		Cutting size 443.3*263.3mm	Support wall-mounted/embedded/desktop installation
Touch screen :10-point capacitive touch		Machine color: black + gun gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution: 1920*1080		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness:L250cd/m²		Speaker 2*8Ω 2w	
Processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
Network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory display	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)
External IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0 (can be replaced by LAN)	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA socket	1*SATA socket	1*SATA socket
Power supply	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)
Function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function
Pperating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	185WD-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	185WD-7B	7th Generation Model B	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	185WD-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	185WD-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

215WD-Outline Dimension

Unit: mm



Product Parameters

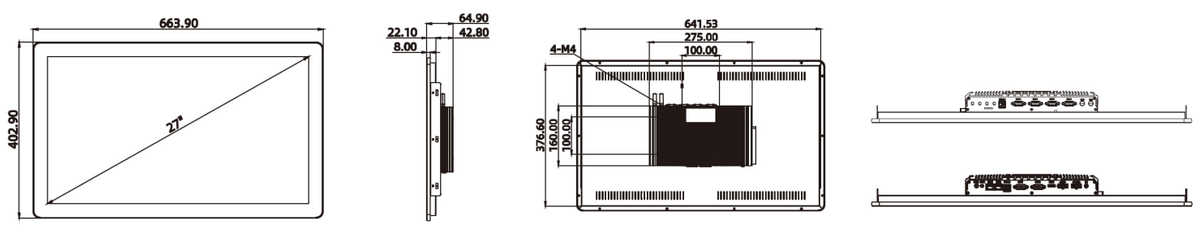
Product Model : 215WD		Machine size: 526.9*322.4*63.9mm	Cooling method: fanless
Display screen :21.5 inches		Cutting size: 508.8*300.3mm	Support wall-mounted/embedded/desktop installation
Touch screen :10-point capacitive touch		Machine color: black + gray	Working environment -10℃~60℃, 10%~90% non-condensin
Resolution :1920*1080		Chassis material: Aluminum profile structure, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness :250cd/m²		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)	1*2.5-inch SATA hard disk slot (7mm hard disk thickness, optional)
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power socket	1*2PIN Phoenix power socket
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0 (can be replaced by LAN)	2*USB3.0/2*USB2.0 (can be replaced by LAN)
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins (2.54 pitch)	6*USB2.0 pins (2.54 pitch)
	4*DB9 RS232 pins	4*DB9 RS232 pins (40PIN side by side 2.0 spacing)	4*DB9 RS232 pins (40PIN side by side 2.0 spacing)
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA socket	1*SATA socket	1*SATA socket
power supply	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)
Function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	215WD-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	215WD-7B	7th Generation Model B	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	215WD-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	215WD-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

236WD-Outline Dimension

Unit: mm



Product Parameters

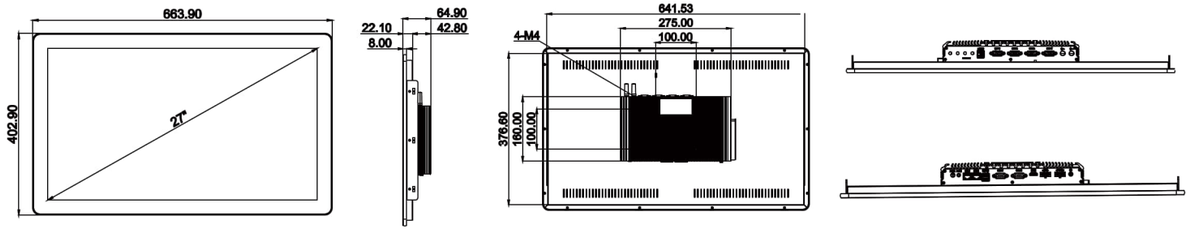
Product Model : 236WD		Machine size: 578.9*353.9*65.9mm	Cooling method: fanless
Display screen : 23.6 inches		Cutting size: 559.6*331.3mm	Support wall-mounted/embedded/desktop installation
Touch screen: 10-point capacitive touch		Machine color: black + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution : 1920*1080		Chassis material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness: 250cd/m²		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power socket	1*2PIN Phoenix power socket
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0 (can be replaced by LAN)	2*USB3.0/2*USB2.0 (can be replaced by LAN)	2*USB3.0/2*USB2.0 (can be replaced by LAN)
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power socket	1*2PIN Phoenix side plug power socket
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA socket	1*SATA socket	1*SATA socket
power supply	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)
Function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	236WD-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	236WD-7B	7th Generation Model B	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	236WD-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	236WD-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

270WD-Outline Dimension

Unit：mm



Product Parameters

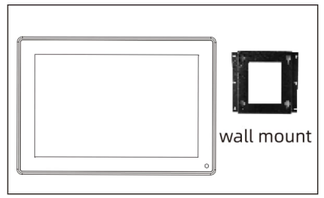
Product Model： 270WD		Machine size: 663.9*402.9*64.9mm	Cooling method: fanless
Display screen： 27 inches		Cutting size 643.53*378.60mm	Support wall-mounted/embedded/desktop installation
Touch screen： 10-point capacitive touch		Machine color: black + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution： 1920*1080		Chassis material: Aluminum profile structure, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness： 250cd/m²		Speaker： 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)
External IO interface	1*2PIN Phoenix power socket	1*2PIN Phoenix power socket	1*2PIN Phoenix power socket
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0 (can be replaced by	2*USB3.0/2*USB2.0 (can be replaced by LAN)	2*USB3.0/2*USB2.0 (can be replaced by LAN)
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power socket	1*2PIN Phoenix side plug power socket
	6*USB2.0 pins	6*USB2.0 pins (2.54 pitch)	6*USB2.0 pins (2.54 pitch)
	4*DB9 RS232 pins	4*DB9 RS232 pins (40PIN side by side 2.0 spacing)	4*DB9 RS232 pins (40PIN side by side 2.0 spacing)
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA socket	1*SATA socket	1*SATA socket
power supply	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)
Function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

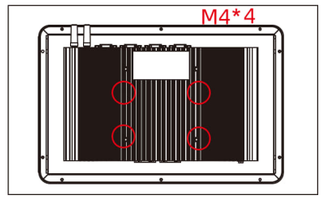
No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	270WD-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	270WD-7B	7th Generation Model	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	270WD-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	270WD-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

Installation diagram

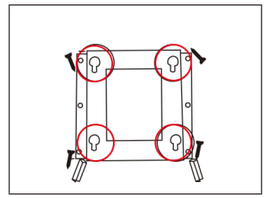
1、Wall bracket installation



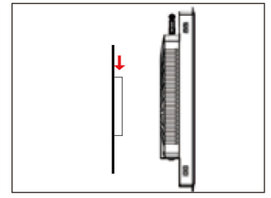
1.Take out the wall mount bracket and screw accessory package



2.Fix the M4 screws to the fixing positions on the back of the tablet. Be careful not to tighten them and leave a 1-2mm gap.

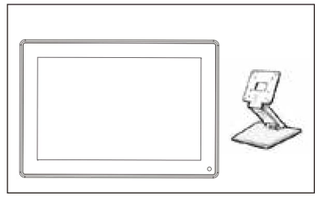


3.Use expansion screws to fix the wall bracket to the corresponding position



4.Align the M4 screws on the back of the tablet with the reserved hoist holes on the wall-mounted machine.

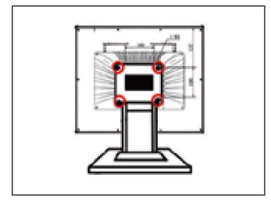
2、Desktop folding stand



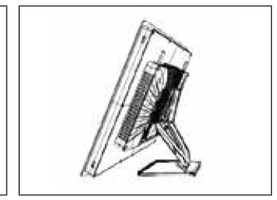
1.Remove the tablet and accessories



2.Place the tablet into the required installation box

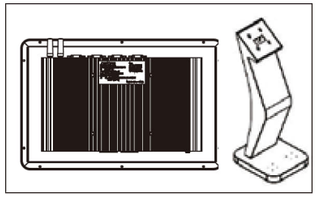


3.Use a screwdriver to loosen the top clip and rotate it to 90°

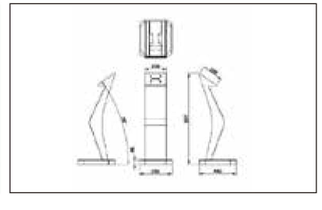


4.Re-tighten the screws until the plate is firmly fixed.

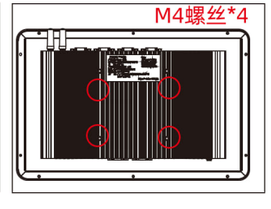
3、K-type base installation



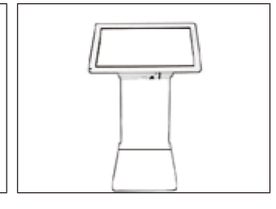
1.Take out the A-type bracket and accessory screw package



2.Fully expand the A-frame



3.Align the A-type bracket fixing position with the tablet back fixing position and fix it with screws.

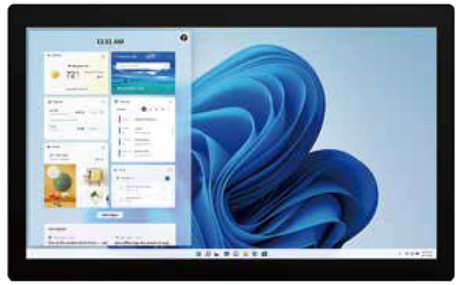


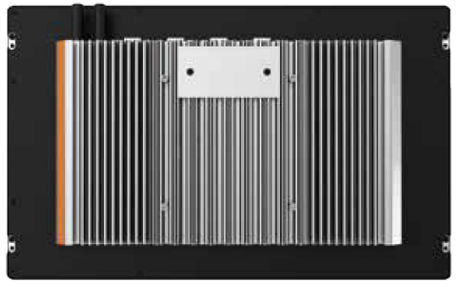
4.Adjust the angle of the bracket according to the usage.

*Supports mounting methods: wall-mounted, pole-mounted/desktop folding stand/desktop A-shaped stand/K-shaped base

AZ series

IPC AZ adopts customized aluminum alloy private mold, and the body is made of all aluminum material, with ultra-narrow frame, strong whole machine protection and strong usability. Fanless design, fully enclosed dust and anti-interference, zero noise, equipped with high-performance processor, can run stably in harsh environments such as extreme temperature and humidity, electromagnetic interference, etc.





anti-interference | strong protection | high performance | customi-zation

Products Features

- SUltra-narrow frame, fully enclosed design
- Projection capacitive touch screen, 10-point touch
- Support win10/win11 and Linux systems
- Independently developed industrial motherboard, surge protection and anti-static interference
- Comes with built-in buckle, no additional accessories required

Application Scenarios

IPC adopts the self-developed series of industrial motherboards, which have powerful processing capabilities andstability. Compact fanless design, powerful performance, can achieve 24h stable operation, ultra-narrow frame design fits all kinds of cabinet equipment, comes with embedded buckles without additional accessories, can be used for medical equipment interactive terminals, machine vision inspection terminals, MES workstations, digital It is widely used in industrialautomation fields such as digital signage, as well as Internet of Things fields such as self-service terminals and smart city monitoring.



MEDICAL EQUIPMENT INTERACTIVE TERMINAL



PRODUCTION CONTROL



HMI HUMAN-MACHINE INTERFACE



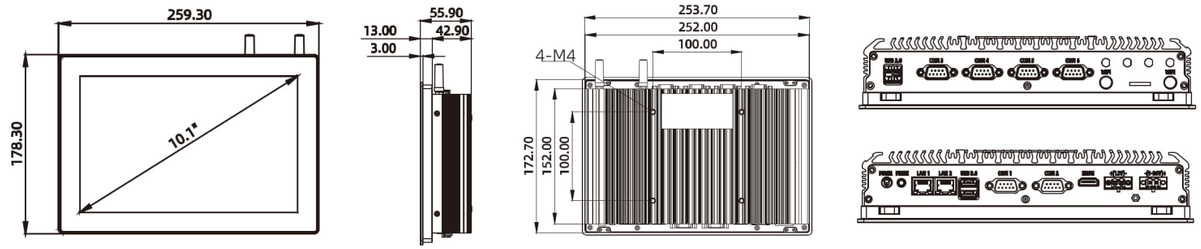
VISUAL INSPECTION TERMINAL



SELF-SERVICE TERMINAL

101AZ-Outline Dimension

Unit: mm



Product Parameters

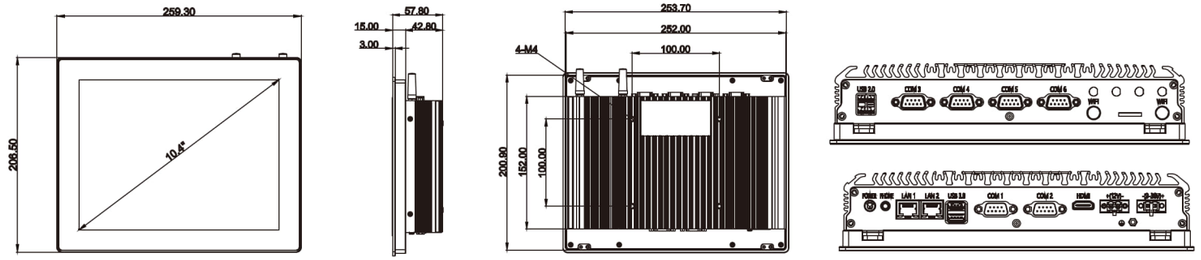
Product Model 101AZ		Machine size: 259.3*178.3*55.9mm	Cooling method: fanless
Display screen 10.1 inches		Cutting size: 255.7*174.7mm	Support wall-mounted/embedded/desktop installation
Touch screen 10-point capacitive touch		Machine color: black + gun gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution 1280*800		Chassis material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness 350cd/m^2		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical	Integrated Intel® HD Graphics 620	Integrated 10th Generation Intel® UHD Graphics	Integrated Intel® Iris® Xe Graphics
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot Max 32G	Dual slot Max 64G	Dual slot Max 64G
External IO interface	1*2PIN Phoenix power socket	1*2PIN Phoenix power socket	1*2PIN Phoenix power socket
	1*HDMI	1*HDMI	1*HDMI
	2*COM (RS232/RS485 switching signal)	2*COM (RS232/RS485 switch)	2*COM (RS232/RS485 switch)
	2*USB3.0/2*USB2.0 (2*USB2.0 can be replaced by LAN)	2*USB3.0	2*USB3.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)	1*Audio 2-in-1 (audio output/microphone voice input)
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*COM RS232 pin	4*COM RS232 pin	4*COM RS232 pin
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA socket	1*SATA socket	1*SATA socket
Expansion slots	1*MINI-PCIE (4G module)	1*MINI-PCIE (4G module)	1*MINI-PCIE (4G module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm thick hard disk)	1*2.5-inch SATA hard disk slot (7mm thick hard disk)	1*2.5-inch SATA hard disk slot (7mm thick hard disk)
power	DC12V DC power supply (optional 9-36V	DC12V DC power supply (optional 9-36V wide	DC12V DC power supply (optional 9-36V wide voltage input)
Function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function	Support WIFI/Bluetooth/4G/5G/watchdog function
operating	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	101AZ-7A	7th Generation Model A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	101AZ-7B	7th Generation Model B	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	101AZ-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	101AZ-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

104AZ-Outline Dimension

Unit: mm



Product Parameters

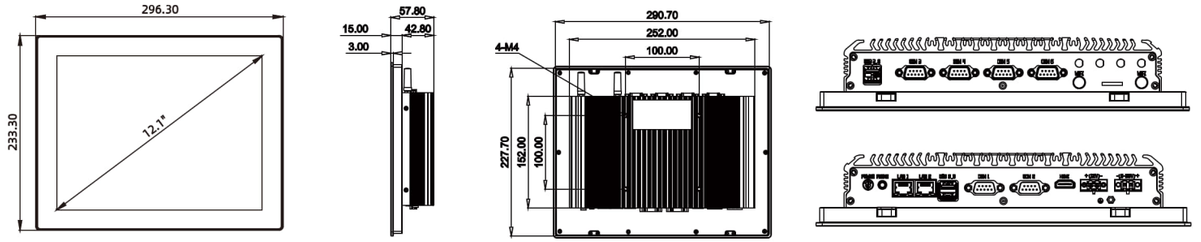
Product Model 104AZ		Machine size: 259.3*206.5*57.8mm	Cooling method: fanless
Display screen 10.4 inches		Cutting size: 255.7*202.9mm	Support wall-mounted/embedded/desktop installation
Touch screen 10-point capacitive touch		Machine color: black + gun gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution 1024*768		Chassis material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness 350cd/m^2		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical	Integrated Intel® HD Graphics 620	Integrated 10th Generation Intel® UHD	Integrated Intel® Iris® Xe Graphics
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot Max 32G	Dual slot Max 64G	Dual slot Max 64G
External IO interface	1*2PIN Phoenix power socket	1*2PIN Phoenix power socket	1*2PIN Phoenix power socket
	1*HDMI	1*HDMI	1*HDMI
	2*COM (RS232/RS485 switching signal)	2*COM (RS232/RS485 switch)	2*COM (RS232/RS485 switch)
	2*USB3.0/2*USB2.0 (2*USB2.0 can be replaced by LAN)	2*USB3.0	2*USB3.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*COM RS232 pin	4*COM RS232 pin	4*COM RS232 pin
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA socket	1*SATA socket	1*SATA socket
Expansion slots	1*MINI-PCIE (4G module)	1*MINI-PCIE (4G module)	1*MINI-PCIE (4G module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm thick hard disk)		
power	DC12V DC power supply (optional 9-36V wide	DC12V DC power supply (optional 9-36V wide	DC12V DC power supply (optional 9-36V wide voltage
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	104AZ-7A	7th Generation Model A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	104AZ-7B	7th Generation Model B	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	104AZ-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	104AZ-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

121AZ-Outline Dimension

Unit: mm



Product Parameters

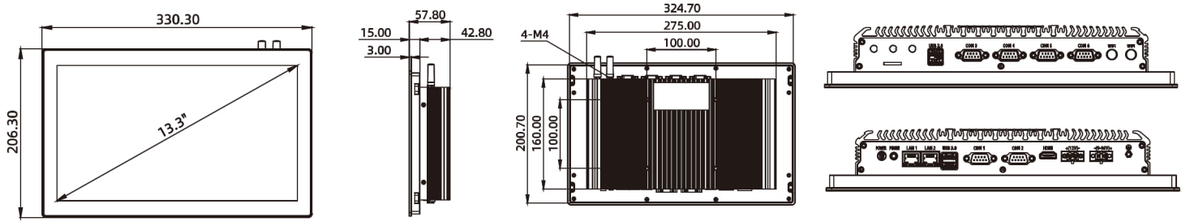
Product Model： 121AZ		Machine size: 296.3*233.3*57.8mm	Cooling system: fanless
Display screen： 12.1 inches		Cutting size: 292.7*229.7mm	Support wall-mounted/embedded/desktop installation
Touch screen： 10-point capacitive touch		Color: black + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution： 1024*768		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness： 350cd/m^2		Speaker 2*8Ω 2w	/
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors		
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)		
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk, optional)		
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power supply	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	121AZ-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	121AZ-7B	7th Generation Model	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	121AZ-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	121AZ-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

133AZ-Outline Dimension

Unit: mm



Product Parameters

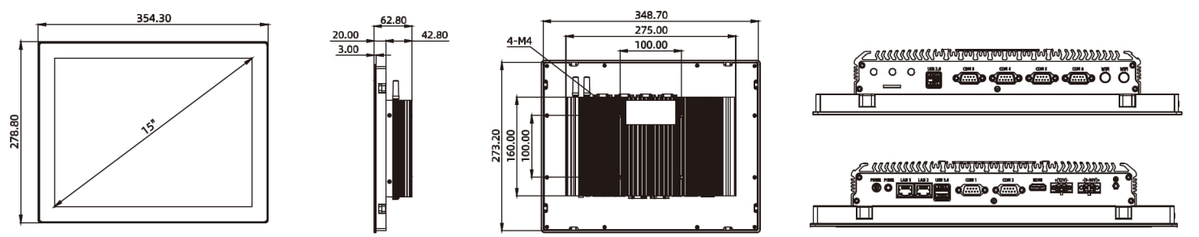
Product Model : 133AZ		Machine size: 330.3*206.3*57.8mm	Cooling system: fanless
Display screen :13.3 inches		Cutting size 326.7*202.7mm	Support wall-mounted/embedded/desktop installation
Touch screen 1:0-point capacitive touch		Machine color: black + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution 1920*1080		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness 300cd/m^2		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE,	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)	1*2.5-inch SATA hard disk slot (7mm hard disk optional)
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power supply	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)	DC12V DC power supply (optional 9-36V wide voltage input)
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDM	USB3.0	USB2.0	POWER
1	133AZ-7A	7th generation A	7th generation	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	133AZ-7B	7th Generation Model	7th generation	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	133AZ-10B	10th Generation B	10th	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	133AZ-12B	12th Generation B	12th	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

150AZ-Outline Dimension

Unit: mm



Product Parameters

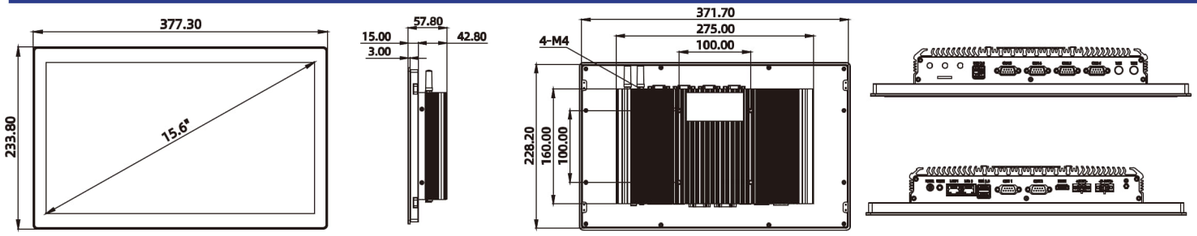
Product Model : 150AZ		Machine size: 354.3*278.8*62.8mm	Cooling system: fanless
Display screen :15 inches		Cutting size 350.7*275.2mm	Support wall-mounted/embedded/desktop installation
Touch screen :10-point capacitive touch		Machine color: black + gun gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution :1024*768		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness :450cd/m^2		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)		
Hard disk	1*2.5-inch SATA hard disk slot (7mm hard disk optional)		
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins (2.54 pitch)	6*USB2.0 pins (2.54 pitch)	6*USB2.0 pins (2.54 pitch)
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	150AZ-7A	7th generation	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	150AZ-7B	7th Generation	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	150AZ-10B	10th	10th generation	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	150AZ-12B	12th	12th generation	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

156AZ-Outline Dimension

Unit: mm



Product Parameters

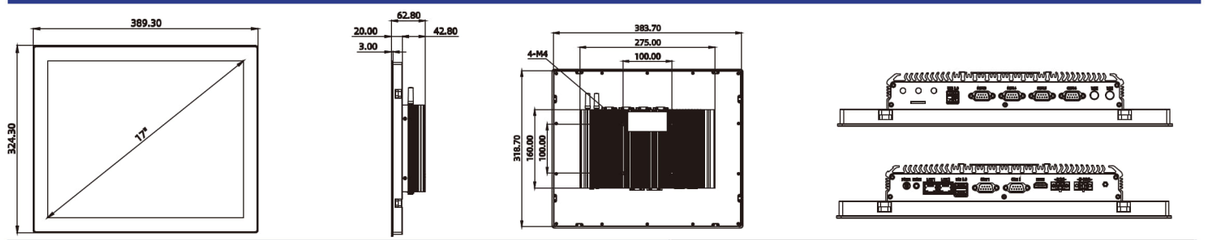
Product Model : 156AZ		Machine size: 377.3*233.8*57.8mm	Cooling system: fanless
Display screen :15.6 inches		Cutting size 373.7*230.2mm	Support wall-mounted/embedded/desktop installation
Touch screen :10-point capacitive touch		Machine color: black + gun gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution :1024*768		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness :250cd/m^2		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)		
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk optional)		
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins (2.54 pitch)	6*USB2.0 pins (2.54 pitch)	6*USB2.0 pins (2.54 pitch)
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power supply	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	156AZ-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	156AZ-7B	7th Generation Model B	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	156AZ-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	156AZ-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

170AZ-Outline Dimension

Unit: mm



Product Parameters

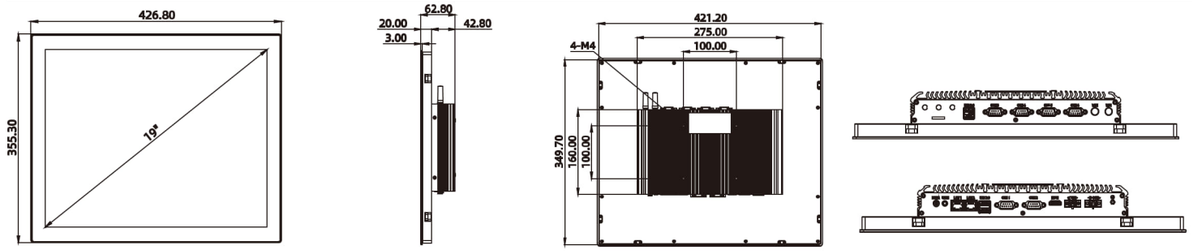
Product Model: 170AZ		Machine size 389.3*324.3*62.8mm	Cooling system: fanless
Display screen: 17 inches		Cutting size 385.7*320.7mm	Support wall-mounted/embedded/desktop installation
Touch screen :10-point capacitive touch		Color black + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution :1280*1024		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness :250cd/m^2		Speaker : 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)		
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk, optional)		
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)		
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power supply	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	170AZ-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	170AZ-7B	7th Generation Model B	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	170AZ-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	170AZ-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

190AZ-Outline Dimension

Unit: mm



Product Parameters

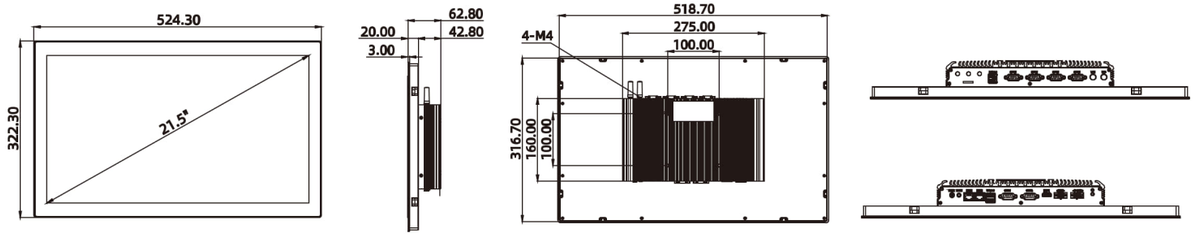
Product Model 190AZ		Machine size 426.8*355.3*62.8mm	Cooling system: fanless
Display screen 19 inches		Cutting size 423.2*351.7mm	Support wall-mounted/embedded/desktop installation
Touch screen 10-point capacitive touch		Color black + gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution 1280*1024		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness 250cd/m^2		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE,	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE	2*RTL8111H Gigabit electrical ports, support network wake-up/PXE
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk, optional)		
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power supply	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating system	Windows7/Windows10/Windows11 /Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	190AZ-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	190AZ-7B	7th Generation	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	190AZ-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	190AZ-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)

215AZ-Outline Dimension

Unit: mm



Product Parameters

Product Model 215AZ		Machine size 524.3*322.3*62.8mm	Cooling system: fanless
Display 21.5 inches		Cutting size 520.7*318.7mm	Support wall-mounted/embedded/desktop installation
Touch screen 10-point capacitive touch		Machine color: black + gun gray	Working environment -10℃~60℃, 10%~90% non-condensing
Resolution 1920*1080		Material: cast aluminum panel, aluminum profile back cover	Storage environment -20℃~75℃, 5%~95% non-condensing
Brightness 250cd/m^2		Speaker 2*8Ω 2w	
processor	Support Intel® Kaby Lake 7th generation (I3/I5/I7) processors	Support Intel® Comet Lake 10th generation (I3/I5/I7) processors	Support Intel® Alder Lake 12th generation (I3/I5/I7) processors
BIOS	AMI UEFI BIOS	AMI UEFI BIOS	AMI UEFI BIOS
Chipset	Intel® SoC	Intel® SoC	Intel® SoC
Graphical display	Intel® HD Graphics 620	Intel® UHD Graphics for 10th Gen Intel® Processors	Intel® Iris® Xe Graphics eligible
network	1*RTL8111H Gigabit electrical port supports network wake-up/PXE, optional 2*LAN		
Sound	Realtek ALC 897	Realtek ALC 897	Realtek ALC 897
Memory	Single slot DDR Max 16G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G	Dual slot DDR4 2400/2666/2933/3200MHz Max 64G
Expansion slots	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)	1*MINI-PCIE (4G/WIFI/BT module)
	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)	1*M.2 2230 (WIFI/BT module)
	1*M.2 2280 SSD (supports SATA/NVMe protocol adaptation)		
Hard disk slot	1*2.5-inch SATA hard disk slot (7mm hard disk optional)		
External IO interface	1*2PIN Phoenix power port	1*2PIN Phoenix power port	1*2PIN Phoenix power port
	1*HDMI	1*HDMI	1*HDMI
	2*DB9 (RS232/RS485 switching signal)	2*DB9 (RS232/RS485 switch)	2*DB9 (RS232/RS485 switch)
	2*USB3.0/2*USB2.0	2*USB3.0/2*USB2.0 (can be replaced by LAN)	
	1*LAN (dual network ports optional)	2*LAN	2*LAN
	1*Audio 2-in-1 (audio output/microphone voice input)		
	1*button switch with light	1*button switch with light	1*button switch with light
Internal IO interface	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port	1*2PIN Phoenix side plug power port
	6*USB2.0 pins	6*USB2.0 pins	6*USB2.0 pins
	4*DB9 RS232 pins	4*DB9 RS232 pins	4*DB9 RS232 pins
	1*VGA pin	1*VGA pin	1*VGA pin
	1*SIM holder	1*SIM holder	1*SIM holder
	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)	1*GPIO pin (8 channels)
	1*SATA port	1*SATA port	1*SATA port
power supply	DC12V DC power supply (optional 9-36V wide voltage input)		
Function	Support WIFI/Bluetooth/4G/5G/watchdog function		
operating system	Windows7/Windows10/Windows11/Linux	Windows 10/Windows 11/Linux	Windows 10/Windows 11/Linux

Ordering Information

No.	Art.#	Version	CPU	Memory	LAN	COM	HDMI	USB3.0	USB2.0	POWER
1	215AZ-7A	7th generation A	7th generation i3/i5/i7	1*SO-DIMM	1*8111H	2	1	2	2	12V (optional 9-36V)
2	215AZ-7B	7th Generation	7th generation i3/i5/i7	1*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
3	215AZ-10B	10th Generation B	10th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)
4	215AZ-12B	12th Generation B	12th generation i3/i5/i7	2*SO-DIMM	2*8111H	6	1	2	2	12V (optional 9-36V)