

# Fanless Industrial Computer

NODKA Industrial BOX PC adhere to the full-featured and cost-effective concepts, focus on solid shape, smart stylish design, Heat is dissipated by a large area of aluminum fins, fully enclosed structure will prevent dust into the internal box, all of these features will protect its reliability and life cycle when they work in a hostile environment. There are 12 types of industrial computer which are used with mainstream processor, such as Intel Atom, IVYbridge, and Skylake-U platform.

## eBOX-3000

High-performance, fanless Mini PC based on Intel® Core™ SkyLake i3 / i5 / i7 / Celeron desktop processors, support PCI / PCIe expansion, optional 4 models.

## eBOX-32XX series

Cost effective and fanless industrial computer based on Intel ATOM D2550 or J1900 processor, including 4 models.

## eBOX-3310

High-performance industrial computer based on the 6th generation Intel core i3/i5/i7 and Celeron processor, including 2 models.



## eBOX-3320

High-performance and extensible industrial computer based on the 6th generation Intel core i3/i5/i7 and Celeron processor, it has PCI and PCIe slots, including 4 models.

## eBOX-3560

Low-power Atom fanless Mini PC, Intel® Atom™ Apollo Lake dual-core / quad-core processor, optional 3 models.

## eBOX-3622

High-performance and extensible industrial computer based on Intel core i3/i5/i7 and Celeron desk processor, it has PCI and PCIe slots, including 2 models.



# eBOX-3000

## Intel® Core™ SkyLake i3/i5/i7/Celeron high performance processor, wall-mounted and fanless mini PC

eBOX-3000 is a fanless mini PC based on Intel® Core™ SkyLake i3/i5/i7/Celeron high performance processor, impact and with large aluminum fin radiator, without cable design inside. The performance is increasing 30% than the 6th generation Intel® Core™ processor's. It used dual channel DDR4 SODIMM, up to 32GB. There are 2 Intel 210AT Ethernet slots, can be extended to 6 groups. There are VGA, DVI and HDMI interface and support multi screen synchronous/asynchronous. There are 6 USB 2.0/3.0, 4 RS232 and 2 RS232/485, support PCI/PCIe/Mini PCIe extender.

OS support Windows 7, Windows 10 and Linux.



### Rugged aluminum chassis

To ensure that excellent heat dissipation and strong.



### Wide Work Temperature

Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major industrial applications.



### DC12V/24V Power input

DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



### 2 Ethernet ports

There are 2 intel 210AT Ethernet ports with high speed EtherCAT and jumbo frames support.



### 4 RS232 COM ports, 2 COM ports can be set to 2 RS232 or RS485

8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



### 2 Mini PCIe expansion slots

Rapid expansion CAN, Profibus, Fieldbus and other field bus, or 3G / 4G, WIFI, GPS communication module.



### Multi-network ports and serial port expansion

Up to 6 Gigabit Ethernet ports and 12 RS232 / 485 serial ports.



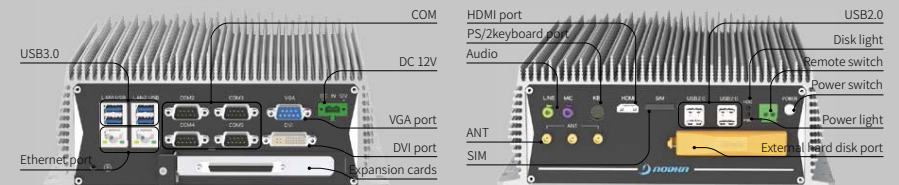
### Remote power on and off

Reserved PS-ON remote switch machine terminal, the user can add this button in the cabinet panel.



### Fast maintenance design of disk

Product is with modular design structure, easy for maintenance and upgrade.



# eBOX-32XX SERIES

**Intel® Atom™ D2550/J1900 low-power processor,  
wall-mounted and fanless mini PC**

eBOX-32XX series is a fanless industrial computer based on Intel Atom D2550 and J1900 processor, there are a lot of I/O ports, such as 2GeLAN, 6USB2.0/3.0, VGA, DVI/HDMI and 6/11 RS232 or RS485. Without cable design inside, compact and rugged box with large aluminum fins design, be able to ensure the reliability and heat dissipation.

OS: Windows XP/XPE (for D2550), Windows 7/WES7, Windows 10 (for J1900), Linux.



**Rugged aluminum and galvanized steel chassis**  
To ensure that excellent heat dissipation and strong, fully enclosed design to prevent dust intrusion.



**Wide Work Temperature**  
Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major industrial applications.



**Without cable inside**  
Without cable connection to protect the reliability and lower failure rate.



**Dual Ethernet port standard configuration**  
2 built-in Realtek 8111F Gigabit Ethernet ports.



**Fastened power connector**  
DC12V power input, with over-current, overvoltage and reverse protection measures, the interface using fast-type Phoenix terminal.



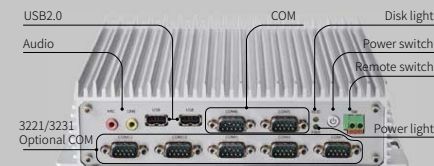
**Optional multi-serial configuration**  
Standard configuration of 6 serial ports, up to 11.



**Support synchronous or asynchronous dual display**  
There VGA + DVI / HDMI two display interface, support synchronous or asynchronous dual display.



**Remote power on and off**  
Reserved PS-ON remote switch machine terminal, the user can add this button in the cabinet panel.





# eBOX-3310

**Intel® Core™ i3/i5/i7/Celeron-U series low-power processor,  
wall-mounted and fanless mini PC**

eBOX-3310 is a Fanless industrial computer based on the 6th generation Intel I3/ I5/I7 and Celeron U processor. CPU and memory designed with modular, All I / O are wide temperature chip, 2 Intel210AT Gigabit Ethernet port, 6 USB2.0 / 3.0 interface, VGA / DVI display interface, 2 RS232 / 485 serial port, DC12 / 24 power input, and the design of Disk, BIOS battery and RS232/485 setup are humanized because it is easy to replace and maintance. There are not cable inside that to ensure the reliability of products. eBOX-3310 is used aluminum alloy die-casting structure, compact design and both strong, especially for more complex and harsh industrial environment.

OS: support Windows7/WES7,Windows10,Linux,Vxworks,QNX.



## Rugged aluminum and galvanized steel chassis

To ensure that excellent heat dissipation and strong, fully enclosed design to prevent dust intrusion.



## Wide Work Temperature

Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C , suitable for major industrial applications.



## Quickly to do functional setup and maintenance

The case is designed for quick maintenance that a special location of the BIOS battery and RS232/485 jumper for setup and maintenance but not open the machine.



## Fast maintenance design of disk

Product is with modular design structure,easy for maintenance and upgrade.



## 2 Ethernet ports

There are 2 intel210AT Ethernet ports with high speedEtherCAT and jumbo frames support.



## DC12V/24V Power input

DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



## CPU and memory modular design

i7 / Celeron core module configuration for product maintenance and upgrades.



## 2 COM ports can be set to 2 RS232 or RS485

8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



## Expansion of CAN, Pro BUS, FieldBus and other bus modules

Host design Easybus expansion mechanism, so that customers through the Mini PCIe to achieve a variety of industrial field bus interface.



## Remote power on and off

Reserved PS-ON remote switch machine terminal, the user can add this button in the cabinet panel.

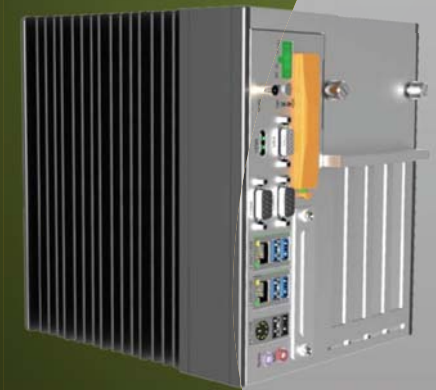
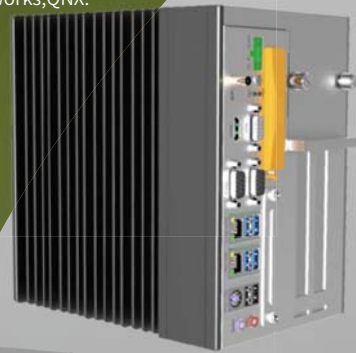


# eBOX-3320

**Intel® Core™ i3/i5/i7/Celeron-U series low-power processor,  
wall-mounted and fanless mini PC**

eBOX-3320 is a Fanless industrial computer based on the 6th generation Intel I3/I5/I7 and Celeron U processor, specially designed two PCI / PCIe bus slots. CPU and memory designed with modular, All I / O are wide temperature chip, 2 Intel210AT Gigabit Ethernet port, 6 USB2.0 / 3.0 interface, VGA / DVI display interface, 2 RS232 / 485 serial port, DC12 / 24 power input. There are not cable inside that to ensure the reliability of products. eBOX-3310 is used aluminum alloy die-casting structure, compact design and both strong, especially for more complex and harsh industrial environment.

OS: support Windows7/WES7,Windows10, Linux,Vxworks,QNX.



**Rugged aluminum and galvanized steel chassis**  
To ensure that excellent heat dissipation and strong, fully enclosed design to prevent dust intrusion.



**Wide Work Temperature**  
Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major industrial applications.



**PCI / PCIe expansion slots**  
There are 2 expansion slots, optional 2 PCI slots or 2 PCIe.



**Fast maintenance design of disk**  
Product is with modular design structure, easy for maintenance and upgrade.



**2 Ethernet ports**  
There are 2 Intel210AT Ethernet ports with high speed EtherCAT and jumbo frames support.



**DC12V/24V Power input**  
DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



**Modularized CPU and memory Core module**  
With Intel Celeron/i5/i7 Processor, easy for product upgrade and maintenance.



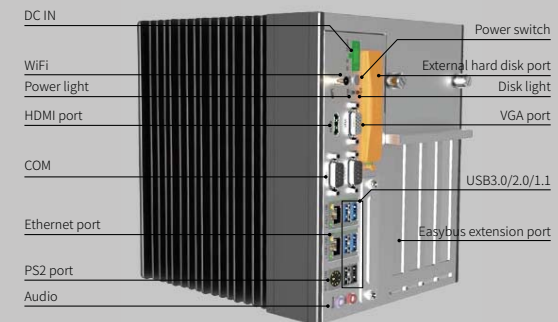
**2 COM ports can be set to 2 RS232 or RS485**  
8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



**Flexible expansion of CAN, Profi BUS, Fieldbus and other industrial modules**  
Flexible expansion of CAN, Profi BUS, Fieldbus and other industrial modules through Easybus and Mini-PCIe interface.



**Remote power on and off**  
Reserved PS-ON remote switch machine terminal, the user can add this button in the cabinet panel.



# eBOX-3560

**Intel® Atom™ ApolloLake low-power processor,  
DIN rail fanless mini PC**

eBOX-3560 is a fanless mini PC based on Intel® Atom™ ApolloLake low-power processor, with DIN rail mounting, Large aluminum fin radiator and without cable inside design. Onboard CPU and SODIMM memory, there are 2 Intel210AT Ethernet slots, can extended to 6 groups. There are 4 USB2.0/3.0 ,HDMI and 2RS232/485. It support DC12V/DC24V power input with over current, over voltage, surge and reverse connection protection. It is suitable for IOT industrial gateway, machine vision, EtherCAT motion control and other applications.

OS support Windows10, Linux.



## Rugged aluminum and din-rail mounting

To ensure that excellent heat dissipation and strong, din-rail is a better way to mount in the cabinet.



## Wide Work Temperature

Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C , suitable for major industrial applications.



## DC12V/24V Power input

DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



## 2 Ethernet ports

There are 2 intel210AT Ethernet ports with high speed EtherCAT and jumbo frames support.



## 2 COM ports can be set to 2 RS232 or RS485

8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



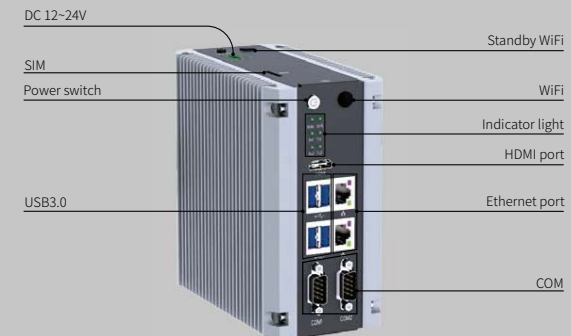
## 2 Mini PCIe expansion slots

Rapid expansion CAN, Profibus, FieldBus and other field bus, or 3G / 4G, WIFI, GPS communication module.



## Multi-network ports and serial port expansion

Up to 6 Gigabit Ethernet ports and 8 RS232 / 485 serial ports.



# eBOX-3622

**Intel® Core™ i3/i5/i7/Celeron high performance processor,  
wall-mounted and fanless mini PC**

BOX-3622 is based on high-performance Intel Core i3 / i5 / i7 and Celeron desktop processor fanless industrial computer, two dual-channel SODIMM slot, maximum support 16GB memory, support SATA2.0 / 3.0 hard drive and MSATA SSD Electronics I / O includes two Intel82574L Gigabit Ethernet ports, six USB2.0 / 3.0 ports, four RS232 and two RS232 / 485 serial ports, VGA / DVI display interface and support synchronous or asynchronous dual display; 2 PCI / PCIe bus slots, so customers can expand a variety of function boards, it is suitable for CNC systems, robots, machine vision and image video analysis and other industries.

OS: support Windows7 / WEST, Windows10, Linux.



## Rugged aluminum and galvanized steel chassis

To ensure that excellent heat dissipation and strong, fully enclosed design to prevent dust intrusion.



## Wide Work Temperature

Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C , suitable for major industrial applications.



## Flexible expansion of PCI, PCIe and Mini-PCIe expansion

There are 2 expansion slots, optional 2 PCI slots or 1PCI+1PCIe, user friendly design of external accessible HDD and expansion card modules, less cable connection and easy for assembly and maintenance.



## Fast maintenance design of disk

Product is with modular design structure,easy for maintenance and upgrade.



## 2 Ethernet ports

There are 2 intel82574L Ethernet ports with high speedEtherCAT and jumbo frames support.



## 4 RS232 COM ports, 2 COM ports can be set to 2 RS232 or RS485

8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



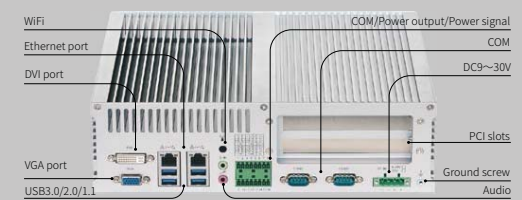
## Remote power on and off

Reserved PS-ON remote switch machine terminal, the user can add this button in the cabinet panel.



## PCI bus is from Intel Main Chip

Most solution on the market is with PCI bus switched from PCIe chip, and with unofficial Windows XP installed, NODKA adopted Intel B75 Chipset could ensure the excellent product compatibility in this area.





## 73

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74



## eBOX-33XX SERIES



eBOX-3310		eBOX-3320	
Processor	CPU	Intel® Core™ i5 6200U/3855U    Intel® Core™ i7 5500U/i5 5300U	
	Base Frequency	Dual Core 2.3GHz / 1.6 GHz / Dual Core 2.4GHz / Dual Core 2.3GHz	
	L2 Cache	3MB / 2MB / 4MB / 3M	
	Chipset	Integrated PCH-LP	
	BIOS	AMI EFI 16Mbit	
Memory	Architecture	DDR4-2133MHz	
	Capacity	1 x 204-pin DDR3L-1600MHz SODIMM, support up to 16GB	
	DIMM	N/A	
Display	Display controller	Intel HD Graphics 520 / Intel Graphics 510 (Celeron)	
	Graphics engine	-	
	VGA	1920 x 1200 @ 60Hz or 2048 x 1152 @ 60Hz with reduced blanking	
	DVI-D	1920 x 1200 @ 60Hz or 2048 x 1152 @ 60Hz with reduced blanking	
	HDMI	N/A	Max resolution up to 4096 x 2160 at 24Hz/ N/A
Dual display		Yes, VGA + DVI/Yes, VGA + HDMI	
LAN	LAN1	Intel i210 Gbe LAN controller	
	LAN2	Intel i210 Gbe LAN controller	
Audio	Port	Realtek ACL662 Audio controller, Line-out	
I/O	COM	2 x RS-232/485 (Max to 6 from EasyBUS)	
	USB	4 * USB3.0/2.0/1.1	
Other	Digital IO	16 x GPIO	
	WatchDog	0~255 seconds programmable	
	MiniPCIe	1 * full size PCIe with SIM holder	
Texpansion slot	PCIe & PCI	N/A	1 x PCIe x4 slot + 1 x 32bits PCI slot or 1 x PCIe x4 slot + 1 x PCIe x1 slot
	EasyBUS	Include 4 x 3-wire RS-232 (TTL), 16 x GPIO, I2C, SMBus	
Storage Medium	HDD	1 x 2.5" HDD Bay (Max rate 600MB/s)	
	SSD	1 * full size mSATA SSD	
OS	Microsoft Windows	Windows 7, Windows 7 Embedded, Windows8, Windows10	
	Linux	Ubuntu, Fedora, CentOS	
	Realtime OS	VxWorks, QNX	
Power	Type	AT/ATX	
	Input voltage	12-24VDC ±10%	
	Minimum Input	12V, 3A	
	Power Adapter	AC to DC, DC12V/5A, 60W (Optional)	
Power Dissipation	No-load	i7 6600U: 6.46W, i5 6300U: 5.26W, i3 6100U: 5.02W, Celeron 3955U: 4.88W	
	Full-load	i7 6600U: 22.03W, i5 6300U: 20.87W, i3 6100U: 20.45W, Celeron 3955U: 17.81W	
Mechanism Parameters	Box structure	Aluminum-magnesium alloy BOX	
	Mounting	Support Desktop, Wall-mounted and VESA mounting	
	Dimensions (L*W*H)	297mm x 184mm x 50mm (11.69" x 7.24" x 1.97")	210mm x 200mm x 138.5mm (8.27" x 7.87" x 5.45")
	NW	-	
Environmental	Work Temperature	-20 ~ 60° C (-4 °F ~140 °F) (Wide temperature SSD); 0 ~ 45° C (32 °F ~113 °F) (General temperature HDD/SSD)	
	Storage Temperature	-40 ~ 80°C (-40 ~ 176 °F)	
	Relative humidity	5~95% (Non condensation)	
	Shake	SSD applied: 1.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis	
	Shock	SSD applied: 10 G, IEC 60068-2-64, Half-sine wave, 11ms duration	
	EMC	CE/FCC Class A	
	Safety Certification	CCC	

## eBOX-3560 SERIES

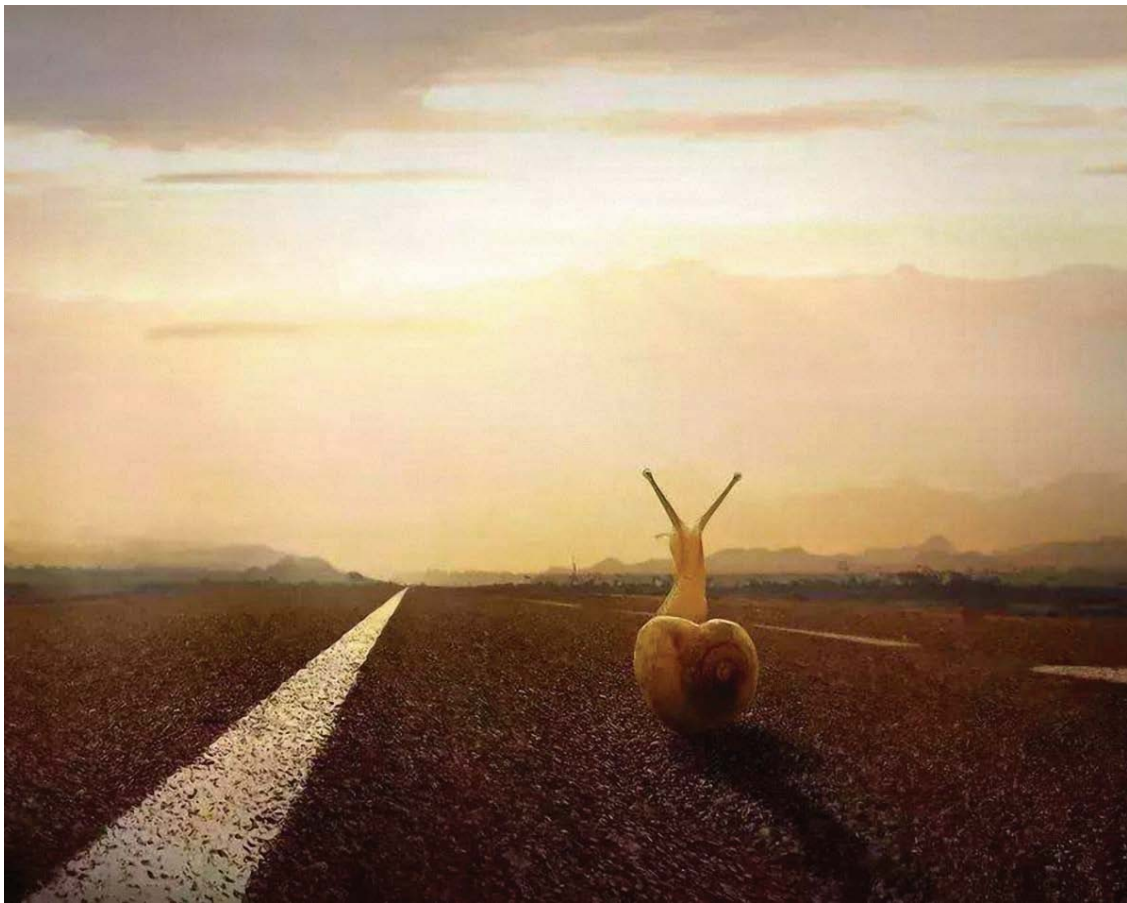


eBOX-3560		eBOX-3560-6L	
Processor	CPU	Intel® Apollo Lake Series J3355	
	Frequency	Dual core 2.3GHz	
	L2 Cache	2MB	
	Chipset	-	
	BIOS	AMI EFI 16Mbit	
Memory	Architecture	DDR3L-1666MHz	
	Capacity	Up to 8GB	
	DIMM	1 x 204-pin SODIMM	
Display	Display controller	Integrated graphics media accelerator	
	HDMI	Max resolution up to 4096×2160@30Hz	
LAN	LAN1	Intel i210 Gbe LAN controller	
	LAN2	Intel i210 Gbe LAN controller	
	Extended LAN	4 x 1000Mbps RJ-45	
I/O	COM	2 x RS-232(RS-232/485 Optional)	
	LPT	N/A	N/A
	USB	4 x USB3.0/2.0/1.1	
Other	Digital IO	N/A	
	WatchDog	0~255 seconds programmable	
	MiniPCIe	2* full size PCIe with SIM holder	
Texpansion slot	PCIe & PCI	N/A	
	HDD	Supports one SATA 2.5"	
Storage Medium	SSD	1 * full size mSATA SSD	
	MicroSD	-	
OS	Microsoft Windows	Windows 10	
	Linux	Ubuntu	
Power	Type	AT	
	Input voltage	12-24VDC ±10%	
	Minimum Input	12V, 3A	
Power Dissipation	Power Adapter	Optional	
	No-load	15 Watt	
	Full-load	31 Watt	
Mechanism Parameters	Box structure	Aluminum alloy BOX	
	Mounting	Support Desktop and Wall-mounted mounting	
	Dimensions (L*W*H)	145mm x 145mm x 75mm (5.71" x 5.71" x 2.95")	
	NW	-	
Environmental	Work Temperature	-20 ~ 60° C (-4 °F ~140 °F) (Wide temperature SSD), 0 ~ 45° C (32 °F ~113 °F) (General temperature HDD/SSD)	
	Storage Temperature	-40 ~ 80°C (-40 ~ 176 °F)	
	Relative humidity	5~95% (Non condensation)	
	Shake	SSD applied: 1.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis	
	Shock	SSD applied: 10 G, IEC 60068-2-64, Half-sine wave, 11ms duration	
	EMC	CE/FCC Class A	
Safety Certification		CCC	

eBOX-3622



eBOX-3622		
Processor	CPU	Intel® Core™ 2nd / 3rd i7 / i5 / i3 / Pentium / Celeron, LGA1155
	Frequency	1.4GHz~3.3GHz
	L2 Cache	Up to 8MB
	Chipset	Intel B75 Express Chipset
	BIOS	AMI EFI 16Mbit
Memory	Architecture	DDR3-1066 / 1333 / 1600MHz ( Only Ivy bridge can fit for 1600MHz)
	Capacity	Up to 16GB
	DIMM	2 x 204-pin SODIMM
Display	Display controller	Intel®HD GT2 3000/4000 Series Display controller, 200MHz~1.2GHz
	Graphics engine	DirectX 11, OpenGL3.1, OpenCL1.1 support; Hardware encoding/decoding: MPEG2/MPEG4; Hardware encoding/decoding: H.264/VC1/MVC
	VGA	Up to 1920 x 1200
	DVI	Support 1920 x 1200
	HDMI	N/A
	Dual display	Yes, VGA + DVI
LAN	LAN1	Intel 82574 Gbe LAN controller
	LAN2	Intel 82574 Gbe LAN controller
Audio	Port	Realtek ACL662 Audio controller, Line-out, Mic-in.
	Amplifier	N/A
I/O	COM	6 x RS-232 (COM1~COM2 Optional RS-485, PIN9 Optional +5V/+12V/RI)
	LPT	N/A
	USB	4 x USB3.0/2.0/1.1, 2 x USB2.0/1.1
Other	Digital IO	16 x GPIO
	WatchDog	0~255 seconds programmable
Texpansion slot	MiniPCle	1 * full size PCle with SIM holder
	PCle & PCI	1 x PCle x4 slot + 1 x 32bits PCI slot or 2 x 32bits PCI slot
Storage Medium	HDD	1 x 2.5" HDD Bay (Max rate 3Gb/s)
	SSD	1 * CFAST
OS	Microsoft Windows	Windows XP, Windows XP Embedded, Windows 7, Windows 7 Embedded, Windows 8
	Linux	Ubuntu
Power	Type	AT
	Input voltage	12VDC ± 10%
	Minimum Input	12V, 6A
	Power Adapter	AC to DC, DC12V/10A, 120W
Power Dissipation	No-load	27Watt
	Full-load	55Watt
Mechanism Parameters	Box structure	Aluminum-magnesium alloy BOX
	Mounting	Support Desktop and Wall-mounted mounting
	Dimensions (L*W*H)	285mm x 240mm x 82mm (11.22" x 9.45" x 3.23")
	NW	4.22kg (9.30lb)
Environmental	Work Temperature	-20 ~ 60° C (-4 °F ~140 °F ) (Wide temperature SSD), 0 ~ 45° C (32 °F ~113 °F ) (General temperature HDD/SSD)
	Storage Temperature	-40 ~ 80°C (-40 ~ 176 °F )
	Relative humidity	5~95% (Non condensation)
	Shake	SSD applied: 1.5 Grms, IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
	Shock	SSD applied: 10 G, IEC 60068-2-64, Half-sine wave, 11ms duration
	EMC	CE/FCC Class A
	Safety Certification	CCC



You have to believe in yourself.  
That's the secret of success.