

# BP-N500 series

Compact-Size Box PC with Intel 11th Tiger Lake-U Series Processor for Ultra Low-Power Fanless Solution

## Product Features

- 11th Gen Intel® Core™ i7/i5/i3 Tiger Lake U-series Processor
- SODIMM DDR4 memory up to 64GB
- Intel® HD Graphics Integrated graphic card
- HDMI+VGA Synch. or asynch. display
- 3 x Intel® GbE LAN
- 8 x RS232 / 2 x RS-232/485 Ports
- RS-485 Up to 6 Ports
- 4 x USB3.0/2.0 Port, 4 x USB2.0 Ports
- Easy to replace cooling fan



INTEL core i5 and INTEL core i7 SKU with samrt FAN



INTEL Celeron and INTEL core i3 SKU FAN Less BOX-PC

## Specifications

Processor	CPU	Intel® 11th Core Intel Core i3 / i5 / i7 CPU	
Memory	Architecture	Dual channel DDR4	
	Capacity	Max. 64GB	
	Socket	2 * DDR4 SODIMM	
Display	Graphic Controller	Intel Integrated graphic card	
	VGA	Max. resolution: 2K	
	HDMI	Max. resolution: 4K	
	Dual Display	HDMI+VGA Synch. or asynch. display	
Ethernet	Controller	LAN1: Intel I219 GbE LAN LAN2: Intel I210 GbE LAN3: Intel I210 GbE	
	Watch Dog Timer	0~255 sec., providing Watch Dog program.	
	Controller	Support system temp. monitoring	
Super I/O	Controller	Realtek HD ALC662_VDO_GR audio decoder (right & left channel + MIC)	
	Controller	Support system temp. monitoring	
Audio	Controller	Realtek HD ALC662_VDO_GR audio decoder (right & left channel + MIC)	
	USB 3.0	4 x USB 3.0/2.0 PORTS	
	USB 2.0	4 x USB 2.0 PORTS	
	Serial Port	Com1	9-wire RS232 TX/RX signal, support 4000V surge protection, DB9 port
		Com2	3-wire RS232 TX/RX signal, support 4000V surge protection, DB9 port
		Com3-COM4	3-wire RS232/RS485(optional), RS232 TX/RX signal, support 4000V surge protection, RS485 support 3KV isolation protection, DB9 port
		COM5-COM6	3-wire RS232 TX/RX signal, support 4000V surge protection, DB9 port
COM7-COM10	RS23 3-wire RS232 TX/RX signal, (optional) support 4000V surge protection		
GPIO	Db15 male, 12bit, program available, freely-defined I/O, 3.3V@24mA		
Expansion Bus	Mini-PCIe	1* Full-size Mini-PCIe socket, support PCIe & USB device	
	UIM Socket	3G UIM Card socket	
	SATA	1* standard 7Pin SATA-III & power connector, transmission rate: max. 3Gb/s	
Storage	M-SATA	1* full-size Mini-PCIe socket, support m-SATA SSD, transmission rate: max. 3Gb/s	
	Power Type	AT/ATX(optional), DC9-30V extended voltage input, support power reverse & over-voltage protection.	
Power	Power Consumption	Support max. 50W	
	Other	POWER LED/HDD LED POWER Button	
Environment	Operating Temp.	0° C ~ 60° C	
	Storage Temp.	-40° C ~ 80° C	
	Operating Humidity	0% ~ 90% relative humidity, non-condensing	
	Storage Humidity	0% ~ 90% relative humidity, non-condensing	
Formfactor	Dimensions	215 x 136 x 60mm	
	Weight	1.5KG (Net weight)	
Certificate		FCC, CE, RoHS	

Industrial embedded system

## Ordering Information

BP-N500-CL-6305	BP-N500-I3-1115G4	BP-N500-I5-1135G7	BP-N500-I7-1165G7
Intel® Celeron 6305 CPU, 1.8GHz · dual core dual thread, HDMI+VGA, 3 x Intel GbE LAN, 8 x Rs232 TX/RX signal, 2 x Rs232/RS485, 4 x USB3.0/2.0 Port, 4 x USB2.0 port, 1 x Mini PCIeX1, 1 x SATA, 1 x M-SATA, AC Adapter DC19V	Intel® 11th core i3 1115G4 CPU, 3.0GHz · dual core four thread · HDMI+VGA, 3 x Intel GbE LAN, 8 x Rs232 TX/RX signal, 2 x Rs232/RS485, 4 x SB3.0, 4 x USB2.0, 1 x Mini PCIeX1, 1 x SATA, 1 x M-SATA, AC Adapter DC19V	Intel® 11th core i5 1135G7 CPU, 2.4GHz · four core eight thread · , HDMI+VGA, 3 x Intel GbE LAN, 8 x Rs232 TX/RX signal, 2 x Rs232/RS485, 4 x USB3.0/2.0 Port, 4 x USB2.0 port, 1 x Mini PCIeX1, 1 x SATA, 1 x M-SATA, AC Adapter DC19V	Intel® 11th core i7 1165G7 CPU, 2.8GHz · four core eight thread · HDMI+VGA, 3 x Intel GbE LAN, 8 x Rs232 TX/RX signal, 2 x Rs232/RS485, 4 x USB3.0/2.0 Port, 4 x USB2.0 port, 1 x Mini PCIeX1, 1 x SATA, 1 x M-SATA, AC Adapter DC19V

## Contact

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