

# KINO-KX

Rich I/O Mini-ITX with Zhaoxin 16nm KX-6000 Series Processor



## Features

- » Mini-ITX SBC supports Zhaoxin 16nm KX-U6580/KX-U6780A(70W) on-board processor supports dual-channel DDR4 SO-DIMMs
- » Dual independent display(VGA & DVI-I) support
- » Up to 10 x RS-232 and 10 x USB 2.0 support
- » 4 x USB 3.2 Gen1 x 1 (5Gb/s), SATA 6Gb/s, Full-size PCIe Mini Card slot and PCIe x16 expansion slot
- » ATX power input

## Specifications

Form Factor	
Form Factor	Mini-ITX
System	
CPU	Zhaoxin Kaixian KX-6000 series 8-core processor
	Zhaoxin KX-U6580 on-board SoC (8-Core, 8MB Cache, 2.5GHz, 70W)
	Zhaoxin KX-U6780A on-board SoC (8-Core, 8MB Cache, 2.7GHz, 70W)
Chipset	Zhaoxin ZX-200
Memory	2 x 260-pin 2666MHz Dual-channel DDR4 SO-DIMM (system max. 64GB)
Memory Max.	Up to 64GB
Cooling method / System Fan	1 x CPU smart fan connector (1x4 pin)
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Physical Characteristics	
Dimensions (LxWxH) (mm)	170 mm x 170 mm
Net Weight	GW:900g / NW:400g
Storage	
Storage	4 x SATA
I/O Interface	
Display Output	1 x DVI-I(up to 1920x1080@60Hz)
	1 x VGA(up to 1920x1080@60Hz)
Ethernet	2 x LAN: Detail -
	LAN1: Realtek RTL8111H PCIe GbE controller
	LAN2: Realtek RTL8111H PCIe GbE controller
Audio	HD Audio: Realtek ALC888S
	1 x Line in
	1 x Line out
	1 x Mic
I/O Interface	10 x External USB 2.0
	4 x External USB 3.2 Gen1x1
	10 x Internal RS-232: 2 x RS-232 (2x5 pin, P=2.0), 8 x RS-232 (2x20 pin, P=2.0)

	1 x PS/2: 1 x KB/MS(External)
Expansion	1 x PCIe mini Card Slot: Full-size PCIe Mini card slot
	1 x PCIe x16(with PCIe x8 Gen 3.0 signal)
Other Features	
TPM	1 x TPM 2.0 connector (2x10 pin)
Power	
Power Consumption	12V @ 3.38A, 3.3V @ 0.62A, 5V @ 9.81A, 5VSB @ 0.03A
	(Zhaoxin KX-U6580 2.5 GHz CPU with 8 GB 2400 MHz DDR4 memory)
Power Supply	ATX power supply
	ErP/EuP Compliant
Environment	
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-20°C ~ 60°C
Humidity	20% ~ 95%, non-condensing
Certifications	
Safety & EMC	CE/FCC compliant

## Ordering Information

KINO-KX-U6580-R10	Mini-ITX SBC supports Zhaoxin 16nm KX-U6580 (70W) on-board processor with PCIe Mini, VGA, DVI, Dual GbE LAN, USB 3.2 Gen1, SATA 6Gb/s, COM, Audio and RoHS
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## Packing List

1 x KINO-KX single board computer with CPU Cooler	1 x I/O Shielding
1 x SATA cable	1 x QIG