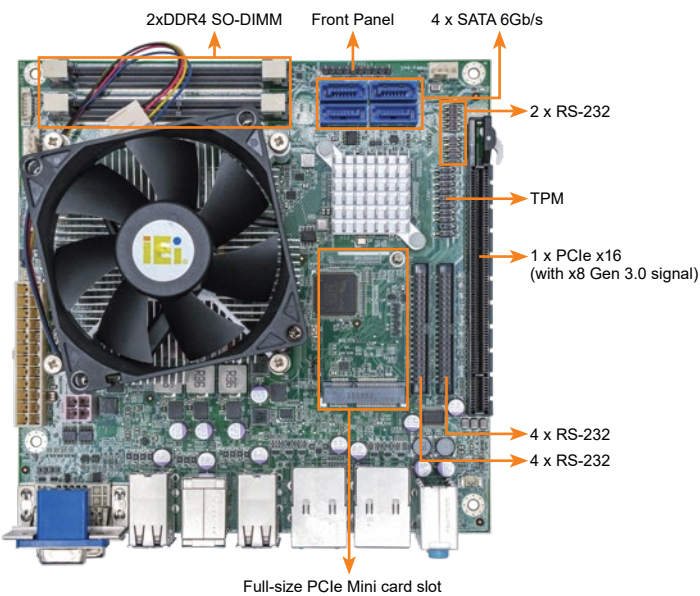


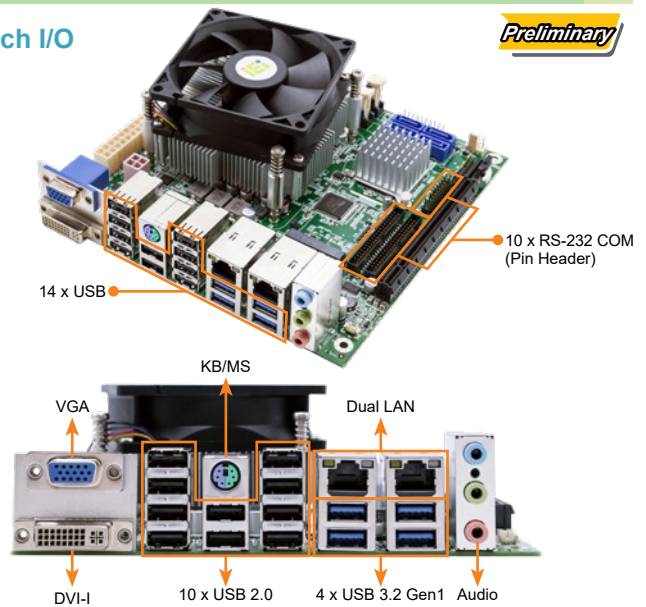
# KINO-KX-U6580-U6780A

Mini-ITX SBC supports Zhaoxin 16nm KX-U6580/KX-U6780A(70W) on-board processor with PCIe Mini, VGA, DVI, USB 3.2 Gen1, SATA 6Gb/s, COM, Audio and RoHS



## Rich I/O

**Preliminary**



## Specifications

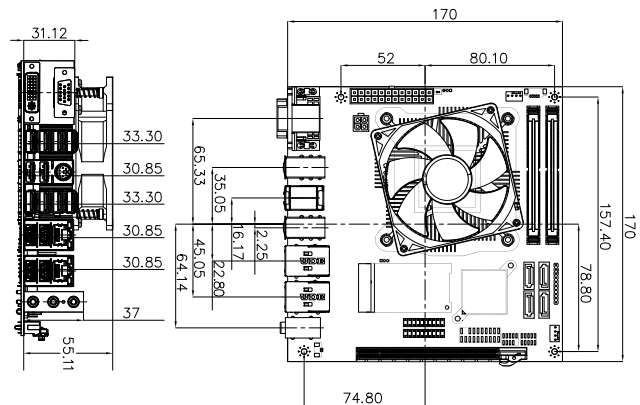
- ◆ SoC  
Zhaoxin Kaixian KX-6000 series 8-core processor  
Zhaoxin KX-U6580 on-board SoC (8-Core, 8MB Cache, 2.5GHz, 70W)  
Zhaoxin KX-U6780A on-board SoC (8-Core, 8MB Cache, 2.7GHz, 70W)
- ◆ Chipset  
Zhaoxin ZX-200
- ◆ BIOS  
AMI UEFI BIOS
- ◆ Memory  
2 x 260-pin 2666MHz Dual-channel DDR4 SO-DIMM (system max. 64GB)
- ◆ Graphics Engine  
C-960 Graphics Processing Unit with 2D/3D/Video Acceleration
- ◆ Display Output  
1 x VGA (up to 1920x1080@60Hz)  
1 x DVI-I (up to 1920x1080@60Hz)
- ◆ Ethernet  
LAN1: Realtek RTL8111H PCIe GbE controller  
LAN2: Realtek RTL8111H PCIe GbE controller
- ◆ External I/O Interface  
10 x USB 2.0  
4 x USB 3.2 Gen 1 (5Gb/s)  
1 x KB/MS
- ◆ Internal I/O Interface  
2 x RS-232 (2x5 pin, P=2.0)  
8 x RS-232 (2x20 pin, P=2.0)  
4 x SATA 6G/s
- ◆ TPM  
1 x TPM (2x10 pin)
- ◆ Audio  
Realtek ALC888S  
3 x Audio jacks (line-out, line-in, mic-in) on rear IO
- ◆ Front Panel  
1 x Front panel (1x10 pin, power LED, HDD LED, power button, reset button)
- ◆ Expansion  
1 x Full-size PCIe Mini card slot  
1 x PCIe x16 slot (with x8 Gen 3.0 signal)
- ◆ Fan Connector  
1 x CPU smart fan connector (1x4 pin)  
1 x System smart fan connector (1x4 pin)
- ◆ Power Supply  
ATX power supply
- ◆ Watchdog Timer  
Software Programmable support 1~255 sec. System reset
- ◆ 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)
- ◆ Operating Temperature  
-10°C ~ 60°C
- ◆ Storage Temperature  
-20°C ~ 60°C
- ◆ Operating Humidity  
20% ~ 95%, non-condensing
- ◆ Dimensions  
170 mm x 170 mm
- ◆ Weight  
GW:900g / NW:400g
- ◆ CE/FCC compliant



## 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
- USB 3.2 Gen1, SATA 6Gb/s, Full-size PCIe Mini Card slot and PCIe x16 expansion slot
- ATX power input

## Dimensions (Unit: mm)



## Packing List

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

## Ordering Information

Part No.	Description
KINO-KX-U6580-R10	Mini-ITX SBC supports Zhaoxin 16nm KX-U6580 (70W) on-board processor with PCIe Mini, VGA, DVI, USB 3.2 Gen1, SATA6Gb/s, COM, Audio and RoHS
KINO-KX-U6780A-R10**	Mini-ITX SBC supports Zhaoxin 16nm KX-U6780A (70W) on-board processor with PCIe Mini, VGA, DVI, USB 3.2 Gen1, SATA 6Gb/s, COM, Audio and RoHS
32200-025401-RS	RS-232 cable, 300mm, P=2.0, 40-pin
32205-002000-100-RS	RS-232/422/485 cable, 300mm, P=2.0, 40-pin
32205-002700-200-RS	RS-232 cable, 200mm, P=2.0
TPM-IN01-R20	20-pin Infineon TPM Module,S/W management tool, firmware V4.4

\*\* By order production, MOQ: 100