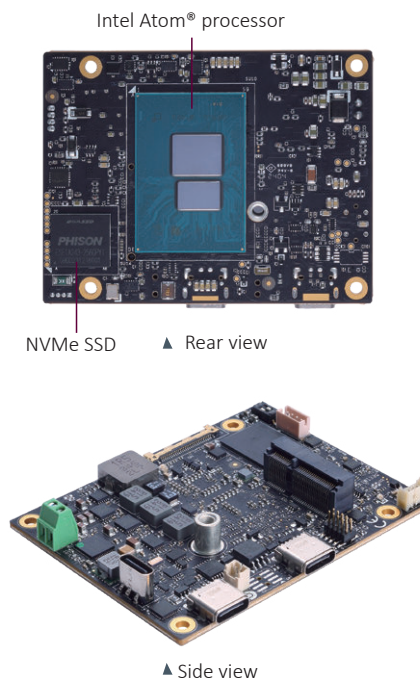
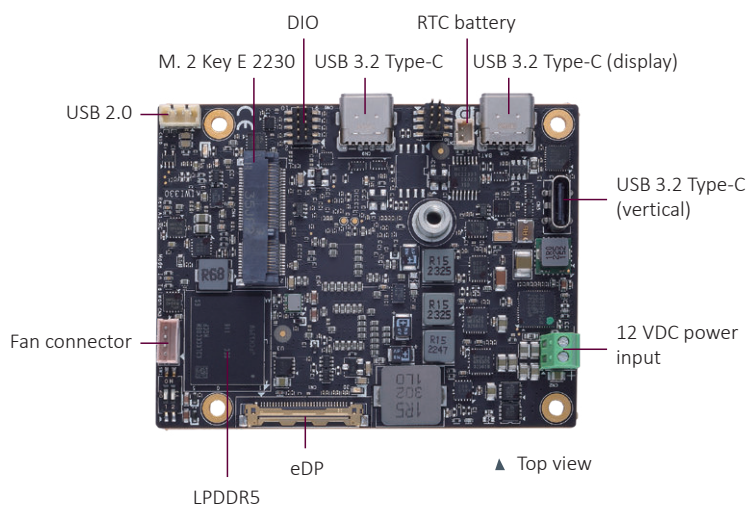


# KIWI330

1.6" SBC with Intel Atom® Processor, LPDDR5, eDP, M.2 Key E, 2 USB 3.2 (Type-C), and USB 3.2 (Vertical Type-C)



## Features

- Super tiny 1.6-inch embedded board
- Intel Atom® processor onboard
- Onboard 4GB LPDDR5 memory
- Onboard 64GB NVMe SSD storage
- Supports M.2 Key E socket
- Supports eDP for display
- Supports operating system: Linux, Windows®

## Specifications

### Core System

|                     |                                    |
|---------------------|------------------------------------|
| CPU                 | Intel Atom® Alder Lake processor   |
| System Memory       | On-board 4GB LPDDR5                |
| Chipset             | SoC integrated                     |
| BIOS                | AMI                                |
| Storage             | BGA 64GB NVMe                      |
| Watchdog Timer      | 255 levels, 1 to 255 sec           |
| Expansion Interface | 1 x M.2 Key E 2230 (USB 2.0, PCIe) |
| Battery Lithium     | Lithium 3V/225 mAh                 |
| Power Input         | 2-pin Phoenix type                 |
| Power Requirements  | 12 VDC/5A                          |



## Specifications

### Display

|                   |                      |
|-------------------|----------------------|
| Chipset           | Intel® UHD Graphics  |
| Memory Size       | Shared system memory |
| Display Interface | 1 x eDP              |

### I/O

|                     |                                                                                                                                                                                                                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SATA                | N/A                                                                                                                                                                                                                                                                                            |
| Hardware Monitoring | Detect temperature, voltage, and fan speed                                                                                                                                                                                                                                                     |
| Ethernet            | N/A                                                                                                                                                                                                                                                                                            |
| USB                 | <b>Horizontal:</b><br>1 x USB 3.2 Type-C (2 x USB 3.2 + 2 x USB 2.0 + 5V/3A + DisplayPort)<br>1 x USB 3.2 Type-C (2 x USB 3.2 + 2 x USB 2.0 + 5V/3A)<br><b>Vertical:</b><br>1 x USB 3.2 Type-C (2 x USB 3.2 + 2 x USB 2.0 + 5V/3A)<br><b>Internal:</b><br>1 x USB 2.0 header (1 x 4-pin wafer) |
| TPM                 | N/A                                                                                                                                                                                                                                                                                            |

### Mechanical and Environmental

|                       |                                              |
|-----------------------|----------------------------------------------|
| Dimensions            | 72 mm × 56 mm                                |
| Board Thickness       | 1.6 mm                                       |
| Operating Temperature | 0°C to +60°C (+32°F to +140°F)               |
| Relative Humidity     | 10% to 95% relative humidity, non-condensing |

## Ordering Information

### Standard

|                                     |                                                                      |
|-------------------------------------|----------------------------------------------------------------------|
| KIWI330-N50-S<br>(P/N: E3D0330100)  | Intel Atom® processor N50, 4GB LPDDR5, and 64GB NVMe SSD             |
| KIWI330-N50-M5<br>(P/N: E3D0330103) | Intel Atom® processor N50, 4GB LPDDR5, and 64GB NVMe SSD with MIO335 |

### Optional

|                                      |                                                                                                   |
|--------------------------------------|---------------------------------------------------------------------------------------------------|
| KIWI330-N50-M5W<br>(P/N: E3D0330104) | Intel Atom® processor N50, 4GB LPDDR5, and 64GB NVMe SSD with MIO335 and Wi-Fi kit (project only) |
| MIO334-6COM-S<br>(P/N: E39Q334101)   | 6-port COM module, 3 DB9 RS-232, and 3 header RS-232                                              |
| MIO335-2LAN-S<br>(P/N: E39Q335101)   | Dual GbE LAN module, 2 RJ-45 GbE LAN, and 2 USB 2.0 Type-A                                        |
| USB cable<br>(P/N: 594P8802810E)     | USB-to-1.25_4-pin housing, L = 150 mm                                                             |
| COM cable<br>(P/N: 59380880250E)     | COM-port cable, DB9 - 9 × 1 P, L = 250 mm, P = 1.25                                               |
| Adapter<br>(P/N: 50966124050E)       | Adapter 12V 60W FSP060-DHAN3 with screw                                                           |



## Packing List

1 x KIWI330 or 1 x KIWI330 + 1 x MIO335  
1 x KIWI330 cooler  
1 x DC wired cable

## Block Diagram

