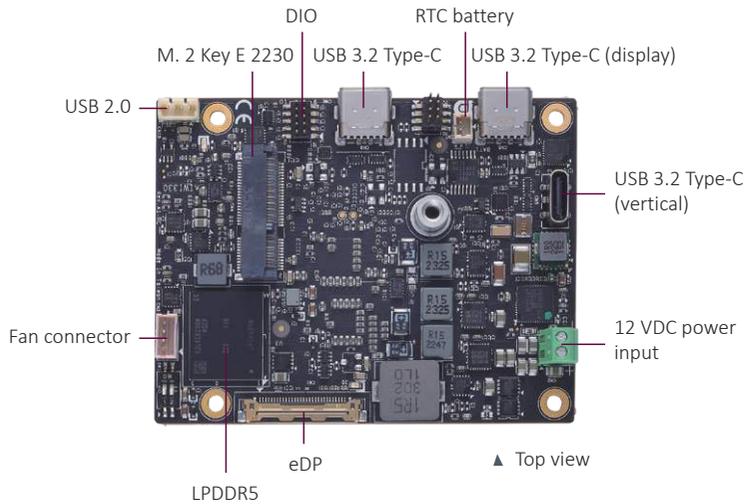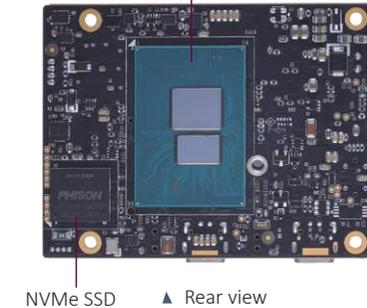# KIWI330

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

Intel Amston Lake/Alder Lake-N® processor

USB 2.0
M. 2 Key E 2230
DIO
USB 3.2 Type-C
RTC battery
USB 3.2 Type-C (display)
USB 3.2 Type-C (vertical)
Fan connector
12 VDC power input
LPDDR5
eDP
▲ Top view

NVMe SSD
▲ Rear view

▲ Side view

Low Power | LPDDR5 | USB Type C | All Solid Caps | M.2

Features

- Super tiny 1.6-inch embedded board
- Intel Amston Lake/Alder Lake-N® 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 Amston Lake/Alder Lake-N® processor
System Memory	Onboard 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	Horizontal: 1 x USB 3.2 Type-C DP Alt Mode 1 x USB 3.2 Type-C Vertical: 1 x USB 3.2 Type-C Internal: 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	-30°C to +60°C (-22°F to +140°F) for Amston Lake SKU 0°C to +60°C (+32°F to +140°F) for Alder Lake-N SKU
Relative Humidity	10% to 95% relative humidity, non-condensing

Ordering Information

Standard

KIWI330-X7211-S (P/N: E3D0330105)	Intel Atom® x7211RE processor, 4GB LPDDR5 & 64GB NVMe SSD with cooler, and -30°C to +60°C
KIWI330-N50-S (P/N: E3D0330100)	Intel® processor N50, 4GB LPDDR5, and 64GB NVMe SSD with cooler
KIWI330-N50-M5 (P/N: E3D0330103)	Intel® processor N50, 4GB LPDDR5, and 64GB NVMe SSD with MIO335 and cooler

Optional

USB cable (P/N: 594P8802810E)	USB-to-1.25_4-pin housing, L=150 mm
Adapter (P/N: 50966124050E)	Adapter 12V 60W FSP060-DHAN3 with screw

Packing List

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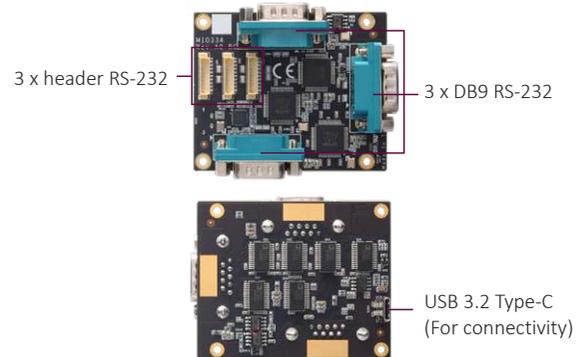1 x KIWI330 cooler
1 x DC wired cable

MIO334

6 COM Ports, Endless Possibilities

Specification	3 x DB9 RS-232
	3 x header RS-232
Dimension	67 x 55 mm
Compliant Product	KIWI330

Ordering Information

Optional

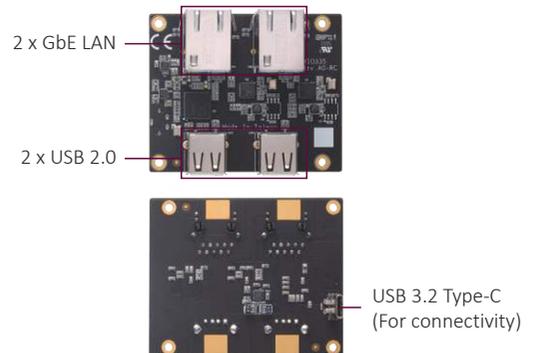| MIO334-6COM-S (P/N: E39Q334101) | 6-port COM module, 3 DB9 RS-232, and 3 header RS-232 |
| COM cable (P/N: 59380880250E) | COM port cable, DB9-9 × 1 P, L=250 mm, P=1.25 |

3 x header RS-232

3 x DB9 RS-232

USB 3.2 Type-C (For connectivity)

MIO335

Dual LAN for Reliable Industrial Networking

Specification	2 x RJ-45 GbE LAN
	2 x USB 2.0
Dimension	67 x 55 mm
Compliant Product	KIWI330

Ordering Information

| MIO335-2LAN-S (P/N: E39Q335101) | 2 GbE LAN module, 2 RJ-45 GbE LAN, and 2 USB 2.0 Type-A |

2 x GbE LAN

2 x USB 2.0

USB 3.2 Type-C (For connectivity)

Block Diagram