

PIR-1014A AIoT Developer Kit

- Intel® Core™ Ultra processors (Series 1) (Meteor Lake -P)
- DDR5-5600 memory, 2 * SO-DIMM, up to 64GB
- 2 * Intel 2.5 GbE LAN, 2 * USB 3.2, 2 * USB 3.0
- 3 * M.2, support PCIe x4 NVMe, 4G/5G, Wifi+BT
- 1 * HDMI, 2 * DP, 1 * Micro HDMI
- Compact size, DC 12V power input



Specifications

General

CPU	Intel® Core™ Ultra processors (Series 1) (Meteor Lake-P)
Memory	DDR5-5600, 2 * SO-DIMM, up to 64GB
Storage	2 * SATA 3.0 1 * M.2 (Key-M, 2280, PCIe x4 Gen4 NVMe)
Expansion Interface	1 * M.2 (Key-B, 2280, USB 3.0+PCIe+USB 2.0, support 4G/5G) 1 * M.2 (Key-E, 2230, PCIe+USB 2.0+CNVi, support Wi-Fi+BT+CNVi)
BIOS	AMI UEFI BIOS
System	Windows 10/11 64-bit, Linux

I/O Interface

Ethernet	2 * Intel® Gigabit Ethernet Controller (up to 2.5 GbE), RJ45
Serial	2 * RS232, 2 * RS485, 1 * UART
USB	1 * Type-C, Thunderbolt 4 2 * Type-A, USB 3.2 2 * Type-A, USB 3.0 2 * Type-A, USB 2.0 1 * MicroUSB 2.0
Others	1 * I2C, 1 * SPI, 1 * eSPI

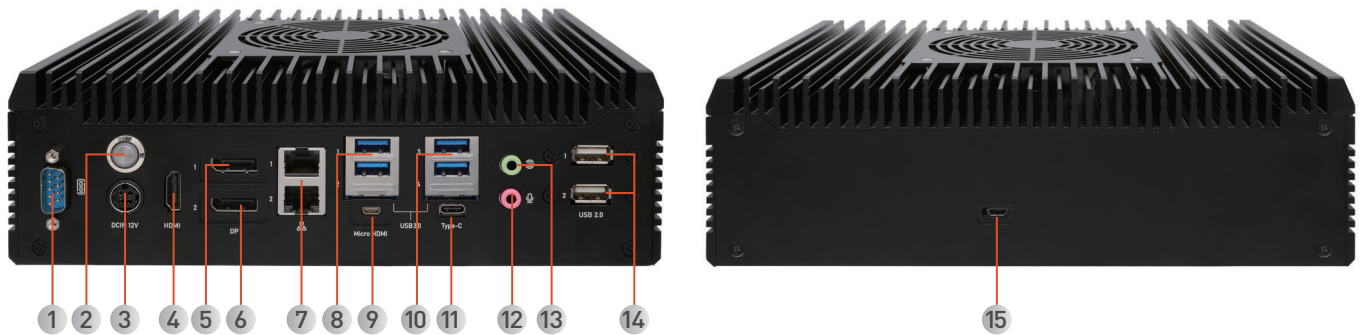
Display

Display Interface	1 * HDMI 2.1, Type-A, max resolution up to 7680*4320@30Hz 1 * DP 2.0, max resolution up to 15360*8640@60Hz 1 * DP 1.4, max resolution up to 7680*4320@30Hz 1 * Micro HDMI IN, HDMI to MIPI CSI
Multiple Display	Quad

Display

Dimension	235 * 177 * 72.5mm
Power Input	DC 12V
Temperature	Operation: 0°C~60°C, Storage: -20°C~75°C
Relative Humidity	5%~95% RH (non-condensing)

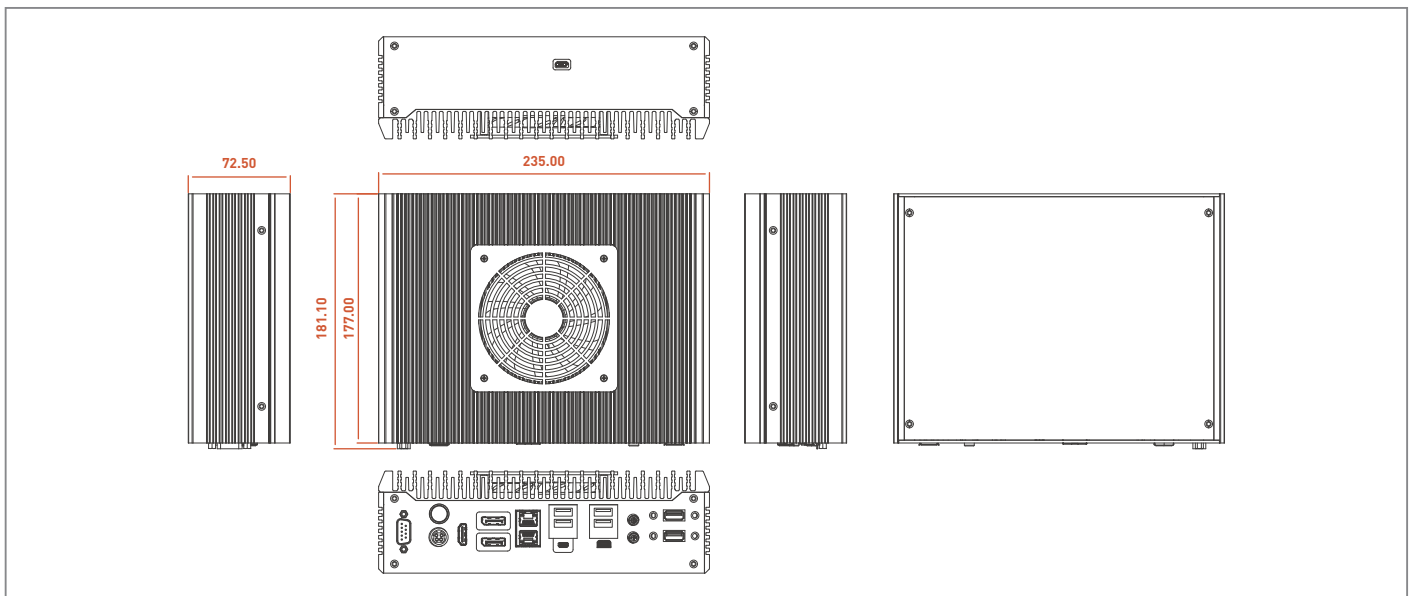
Product I/O View



1	COM1 RS232 DB9/M
2	Power On Button
3	DC 12V Power Input Mini-Din 4P Jack
4	HDMI2.1 TYPE-A Connector
5	DP 1.4 Connector
6	DP 2.0 Connector
7	Dual 2.5G LAN RJ45 Connector
8	Dual USB3.2 10Gbps TYPE-A Connector

9	Micro HDMI IN Connector
10	Dual USB3.2 5Gbps TYPE-A Connector
11	Thunderbolt4 TYPE-C Connector
12	Line-Out 3.5mm Phone Jack
13	MIC 3.5mm Phone Jack
14	Dual USB2.0 TYPE-A Connector
15	Micro USB2.0 Connector

Dimensions



Procurement Guide

Model	CPU	Display	I/O	Expansion
PIR-1014A	Intel® Core™ Ultra processors (Series 1) (Meteor Lake -P)	1 * HDMI 2.1 2 * DP 2.0/1.4 1 * Micro HDMI	2 * 2.5 GbE, 1* TYPE-C, 2 * USB 3.2, 2 * USB 3.0, 2 * USB 2.0, 5 * COM	1 * M.2 (Key-M, 2280) 1 * M.2 (Key-B, 2280) 1 * M.2 (Key-E, 2230)