

# ADI-V51 AIoT Developer Kit

- 12<sup>th</sup> Gen Intel® Core™ or Celeron® processor (formerly Alder Lake -P)
- Support DDR5 memory, 2\*S0-DIMM, up to 64GB
- 2\*Intel GbE, 5\*USB 3.2
- 3\*M.2, support PCIe x4 NVMe, Wi-Fi+BT, 4G/5G
- 3\*DP, 1\*HDMI, 1\*HDMI IN
- Compact size, DC 12V power input



## Specifications

### General

CPU	12 <sup>th</sup> Gen Intel® Core™ i3/i5/i7 or Celeron® processor (formerly Alder Lake -P)
Memory	DDR5-4800, 2*S0-DIMM, up to 64 GB
Storage	1*SATA 3.0 1*M.2 (Key-M, 2280, PCIe x4 NVMe)
Expansion Interface	1*M.2 (Key-E, 2230, support Wi-Fi+BT) 1*M.2 (Key-B, 2280, support 4G/5G)
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
USB	3*Type-A, USB 3.2 2*Type-C, USB 3.2 + DP 1.4a
Others	2*Wi-Fi Antenna Hole

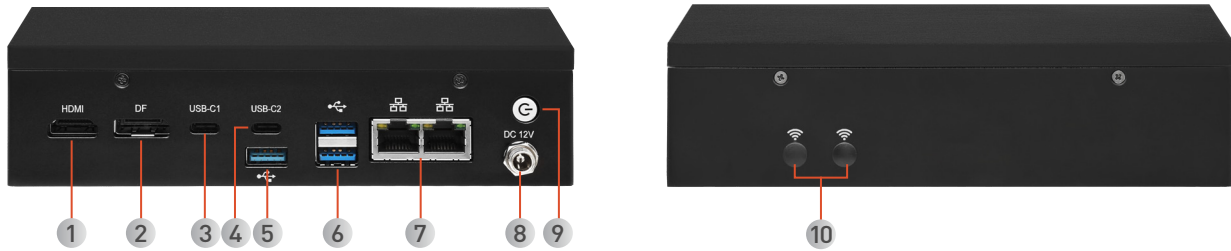
### Display

Display Interface	1*DP 1.4a++, max resolution up to 7680*4320@30Hz 2*DP 1.4a, Type-C, max resolution up to 7680*4320@30Hz 1*HDMI, Type-A, max resolution up to 7680*4320@30Hz 1*Micro HDMI IN, HDMI to MIPI CSI
Multiple Display	Quad

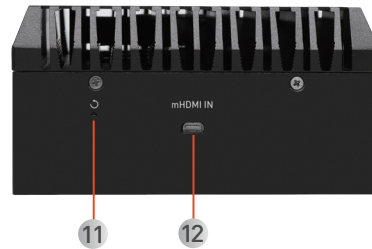
### Display

Dimension	173*113*56mm
Power Input	DC 12V
Temperature	Operation: 0°C~45°C, Storage: -20°C~75°C
Relative Humidity	5%~95% RH (non-condensing)

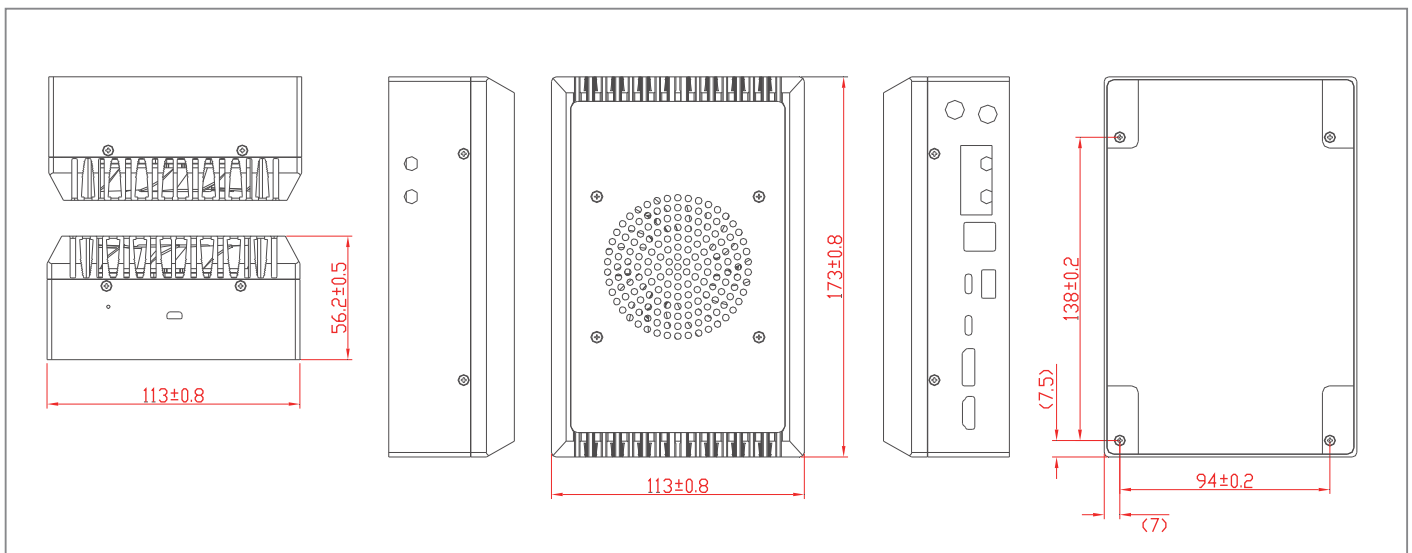
## Product I/O View



1	HDMI TYPE-A Connector
2	DP 1.4a++ Connector
3	USB3.2+DP1.4a TYPE-C Connector1
4	USB3.2+DP1.4a TYPE-C Connector2
5	USB3.2 TYPE-A Connector
6	Dual USB3.2 TYPE-A Connector
7	Dual 2.5GbE LAN RJ45 Connector
8	DC12V Power Input Connector
9	Power On Button
10	WIFI Antenna Hole
11	Reset Button
12	Micro HDMI IN Connector



## Dimensions



## Procurement Guide

Model	CPU	Display	LAN	I/O	Expansion
ADI-V51	Intel® Alder Lake-P Processor Families	1 * DP 1.4a++ 2 * DP 1.4a 1 * HDMI 1 * Micro HDMI IN	2 * 2.5GbE	3 * USB3.2	1 * M.2 Key-M(PCIe x4 NVMe) 1 * M.2 Key-E(WIFI+BT) 1 * M.2 Key-B(4G/5G)