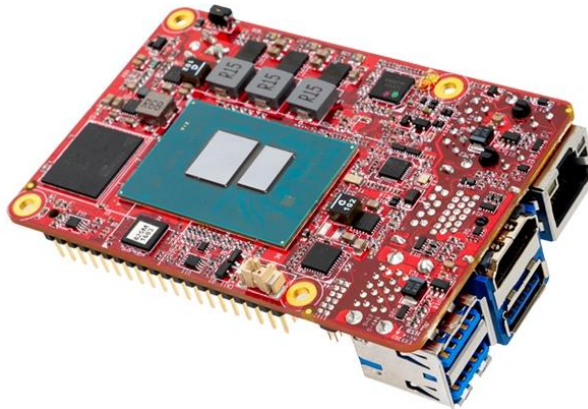


Product Overview

Build efficient solutions for retail, industrial, healthcare, and other applications at the edge on developer kits with Intel® Processor N97. These developer kits come with a prevalidated software stack. Combined with the efficient multitasking performance, graphics capabilities, and expanded I/O features, you have a complete kit that helps accelerate the development and deployment of your solution.

- Delivers improved single-thread and multithread performance with up to eight cores and higher memory bandwidth with DDR5 and LPDDR5 SDRAM support.
- Accelerates AI performance. Use for up to three simultaneous displays on Intel® UHD Graphics, which is based on X^e Architecture with up to 32 execution units. These execution units are the graphics compute processors that are optimized for simultaneous multithreading.
- Delivers built-in support to combine data from validated sensors (such as accelerometers, gyroscopes, and magnetometers) to create a more complex virtual sensor for your solution.

Product Photos



Spec.

SYSTEM	
PROCESSOR	Intel® Processor N97
GRAPHICS	Intel® UHD Graphics
MEMORY	Dual-Channel LPDDR5, 8GB
STORAGE	64GB eMMC
I/O	HDMI 1.4b/USB 3.2 Gen 2 STACK Connector x 1 (Type-A) 4-pin Front Panel x 1 2-pin Fan Wafer x 1 (12V) 2-pin RTC Battery Wafer x 1
USB	USB 3.2 Gen 2 (Type-A) x 3 10-pin USB 2.0 x 2/UART x 1
EXPANSION	40-pin GPIO x 1
DISPLAY INTERFACE	HDMI 1.4b x 1
ETHERNET	1GbE RJ-45 x 1 (Realtek RTL8111H CG)
SECURITY	Onboard TPM 2.0
RTC	Yes
OS SUPPORT	Windows® 10 Enterprise LTSC 2021 Linux: Ubuntu 22.04 LTS/Kernel 5.15, Yocto 4.0
POWER REQUIREMENT	
POWER	12V DC-in, 5A
POWER SUPPLY TYPE	AT (default) /ATX
POWER CONSUMPTION (TYPICAL)	30~36W
MECHANICAL	
DIMENSION	85mm x 56mm
ENVIRONMENT	

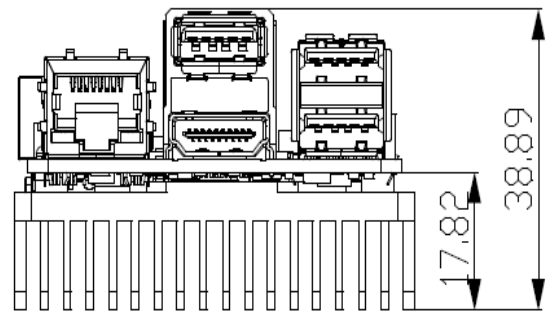
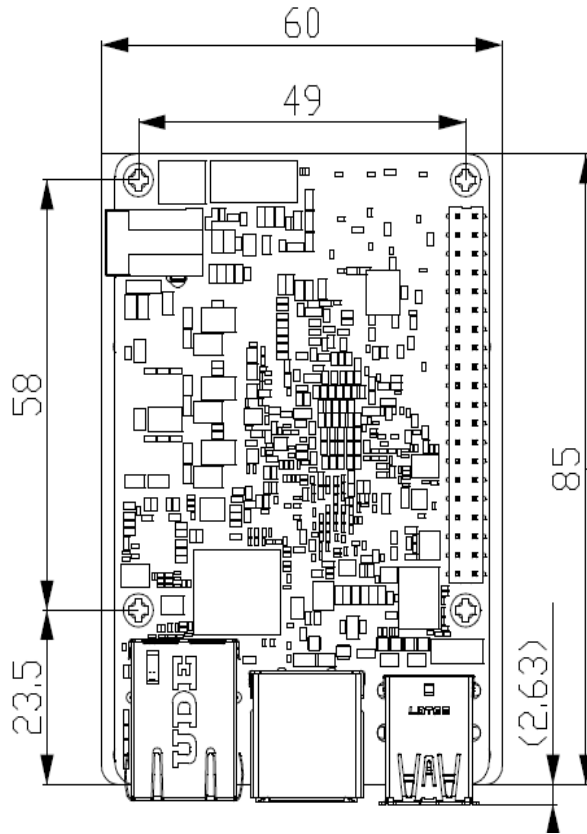
OPERATING TEMPERATURE

0°C ~ 60°C / 0.5 airflow

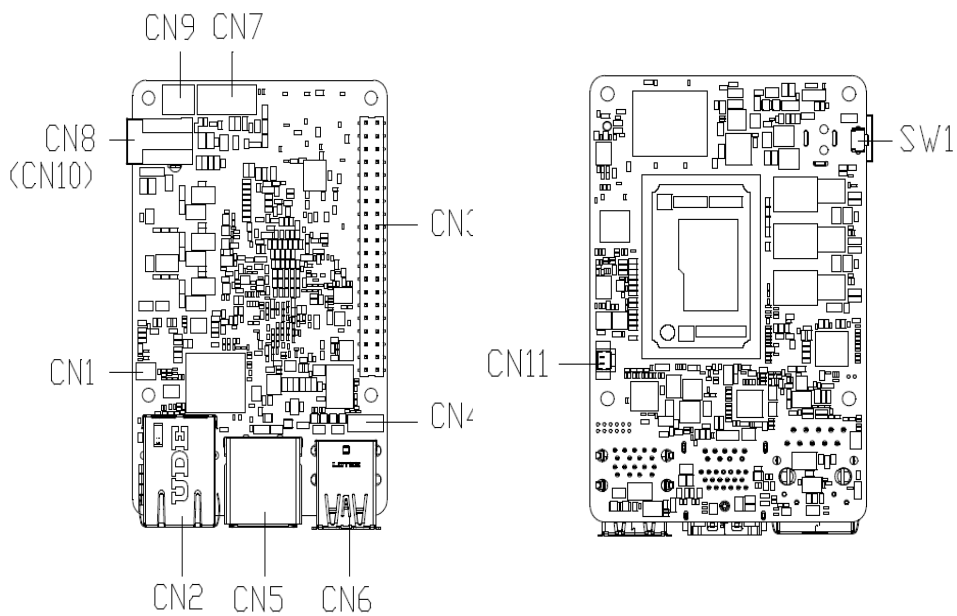
OPERATING HUMIDITY

0% ~ 90% relative humidity, non-condensing

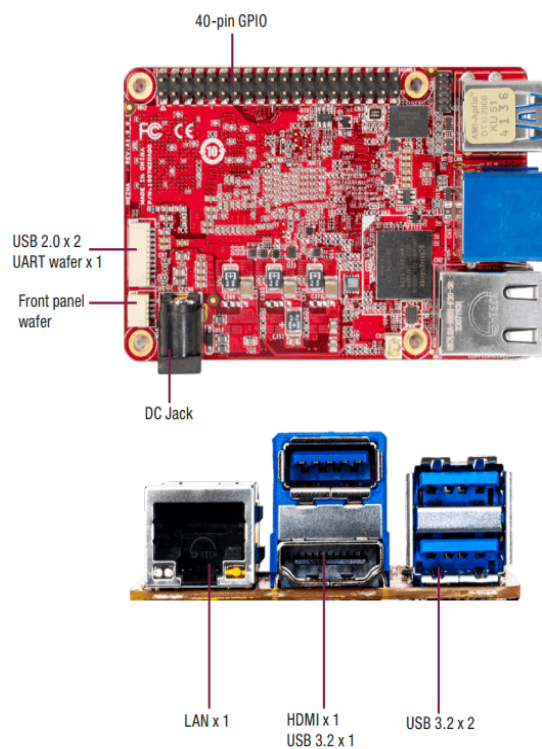
Product Size



I/O

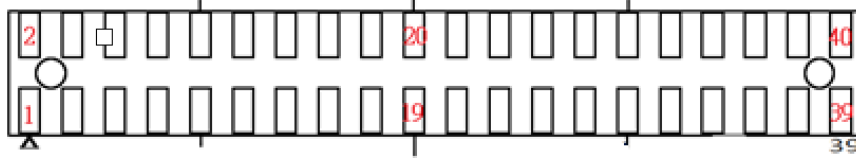


标签/Label	功能/Function
SW1	Power Button
CN1	RTC
CN2	LAN Port
CN3	HAT 40 (GPIO)
CN4	CPLD/BIOS Update
CN5	HDMI/USB (Type-A)
CN6	Dual USB Port (Type-A)
CN7	USB 2.0/UART (1x10P Wafer)
CN8	DC Power Jack
CN9	Front Panel (1x4P Wafer)
CN10	DC Power Wafer
CN11	Fan Connector



GPIO pin Definition

HAT 40 (CN3)



针脚/Pin	信号/Signal	针脚/Pin	信号/Signal
1	+3.3V	2	+5V
3	I2C1_DAT / GPIO1	4	+5V
5	I2C1_CLK / GPIO2	6	GND
7	ANALOG_DATA / GPIO3	8	UART_TX / GPIO16
9	GND	10	UART_RX / GPIO17
11	RTS / GPIO4	12	I2S_BCLK / GPIO18
13	GPIO5	14	GND
15	GPIO6	16	GPIO19
17	+3.3V	18	GPIO20
19	SPI_MOSI / GPIO7	20	GND
21	SPI_MISO / GPIO8	22	GPIO21
23	SPI_CLK / GPIO9	24	SPI_CS0 / GPIO22
25	GND	26	GPIO23
27	I2C0_DAT / GPIO10	28	I2C0_CLK / GPIO24
29	GPIO11	30	GND
31	GPIO12	32	PWM0 / GPIO25
33	PWM1 / GPIO13	34	GND
35	I2S_SYNC / GPIO14	36	CTS / GPIO26
37	GPIO15	38	I2S_SDI / GPIO27
39	GND	40	I2S_SDO / GPIO28