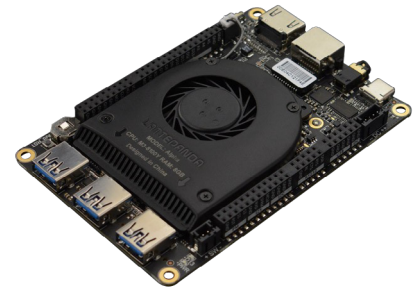# LattePanda Alpha 864

Product Overview

07/27/2022

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

DFRobot DFR0546 LattePanda Alpha 864 is a device designed with Intel 7th generation Core m3 processor. This Core m3 processor is perfect for superior performance and low power consumption. The DFR0546 features Windows and Linux dual OS support, and Windows 10 Pro with added Linux compatibility. This module offers a streaming cable that allows the Windows-enabled device to act as a USB on a Mac or Linux system. The Picture in Picture (PiP) form eliminates the switching/use of dual mouse and HDMI to connect different systems seamlessly.

The DFR0546 features solid specifications, extreme design, and up to 42 extendable interfaces. The module comes with an ultra-thin design that minimizes the space occupation. The DFR0546 is widely used in edge computing, vending, robotics, smart devices, home automation, advertising machine, and industrial automation.

Features

- Solid specifications and extreme design
- Dual OS support for Windows and Linux
- Ultimate networking on Cloud and Things
- Up to 42 extendable interfaces bring rich playabilities
- Ultra-thin design which minimizes space occupation

Specifications

- Intel 7th Gen Core m3-7y30 CPU
- 1.6GHz to 2.6GHz Dual-Core, Four-Thread
- Intel HD Graphics 615, 300MHz to 900MHz
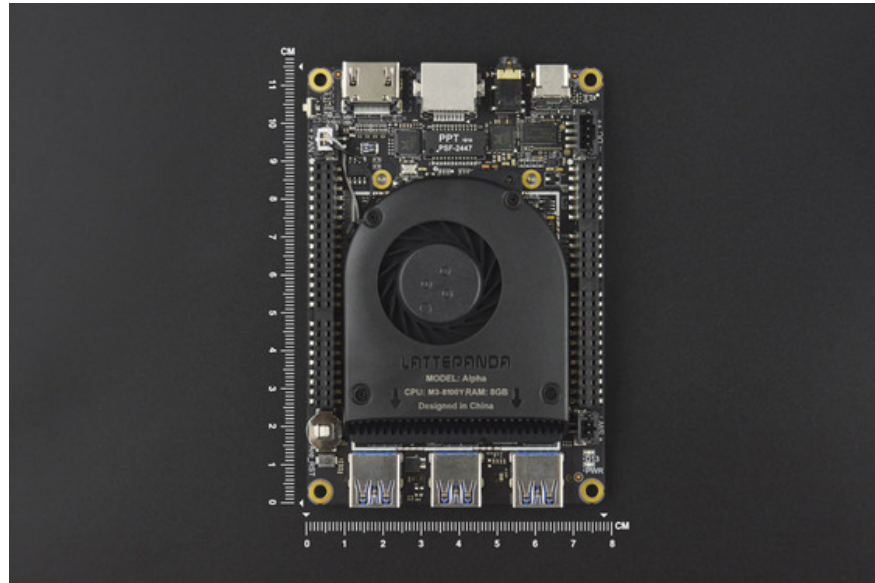- 8G LPDDR3 1866MHz dual-channel RAM

Specifications

- 64GB eMMC V5.0l memory
- Power management
- Extendable power button
- External memory:
    - 1x M.2 M Key, PCIe 4x, supports NVMe SSD and SATA SSD
    - 1x M.2 E Key, PCIe 2x, supports USB2.0, UART, and PCM
- Connectivity:
    - Wi-Fi 802.11 AC, 2.4G and 5G
    - Dual-band Bluetooth 4.2
    - Gigabyte Ethernet
- USB Ports:
    - 3x USB 3.0 Type A
    - 1x USB Type C, supports PD, DP, and USB 3.0
- Display:
    - HDMI output
    - Type-C DP support
    - Extendable eDP touch displays
    - Arduino Leonardo co-processor
- Interfaces:
    - 2x 50p GPIOs including I^2C, I^2S, USB, RS232, UART, and RTC
- OS support:
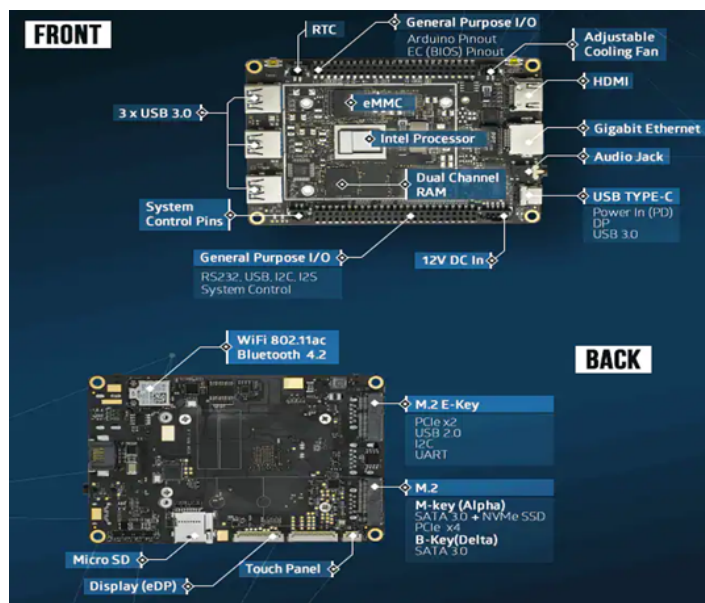   - Windows 10 Pro
    - Linux Ubuntu

Applications

- Robotics
- Smart factory
- Home automation
- Education
- Car entertainment
- Smart device
- Interactive arts
- AI localization

Board Dimensions

Board Overview

Mouser Part Number

View Part

To learn more, visit https://www.mouser.com/new/dfrobot/dfrobot-dfr0546-lattepanda-alpha/