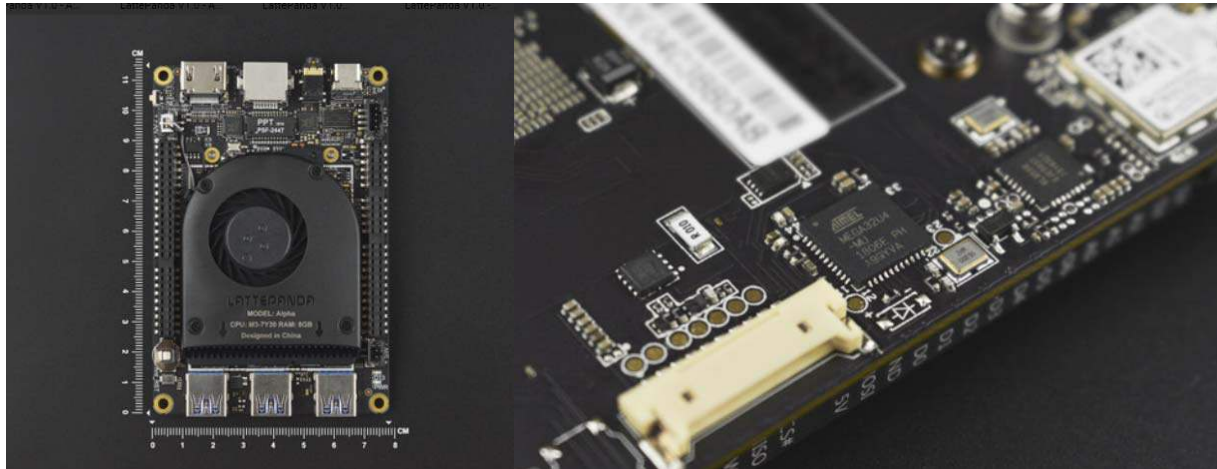# LattePanda Alpha 864s – Tiny Ultimate Windows / Linux Device (Pre-order)

SKU:DFR0546

Latest Updates(2019/03/03):
- Due to Intel's capacity problems, the supply of Alpha's CPU M3-7y30 will face a continuous shortage. To solve the problem, LattePanda team updated its **CPU to Intel 8th M3-8100y**, correspondingly, Alpha 864 models will be upgraded to **Alpha 864s**. It will**improve the whole performance 30% on the basis of previous 7th M3-7y30 version**.

- And now this new generation of LattePanda Alpha 864s is available to **pre-order**. The shipping period will be **around July** (we will update the shipping date in this page once it gets confirmed). Orders placed will be shipped in chronological order when new Alpha 864s is in stock.
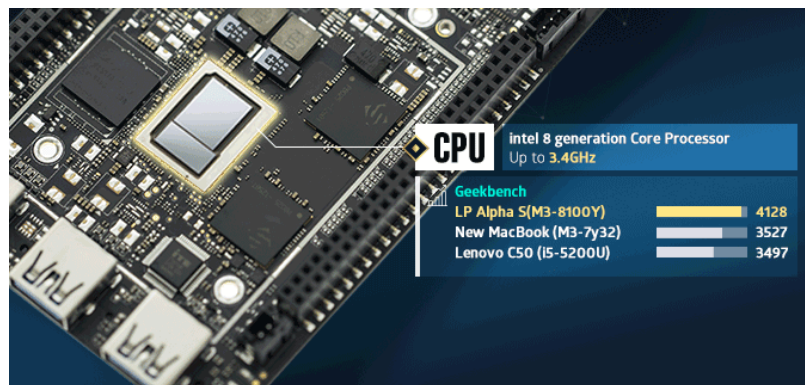
Alpha Edition - Generally refers to the leader in a wolf pack, α / Alpha. It will also be the leader in the LattePanda series, the most powerful in performance. Known as the leader of the Pandas, or "AlphaPanda" for short.

The Core m3 processor is the perfect choice for superior performance and low power consumption.

We have shrunken this computing monster from a laptop to the size of a phone.

We are shipping Windows 10 Pro this time but we have also added Linux Compatibility, Windows and Linux dual OS support.

Because we saw the different needs of users from our 1st Gen products.

WIN 10 PRO

LINUX OS

ULTIMATE NETWORKING ON CLOUD AND THINGS

4.2
BLUETOOTH

Multiple IoT
Device Connectivity

802.11AC
WIFI

Delivers 3x faster WiFi
speeds than 802.11n
2.4G + 5G Dual-Band

GIGABIT
ETHERNET

Supports Remote
Wake-up

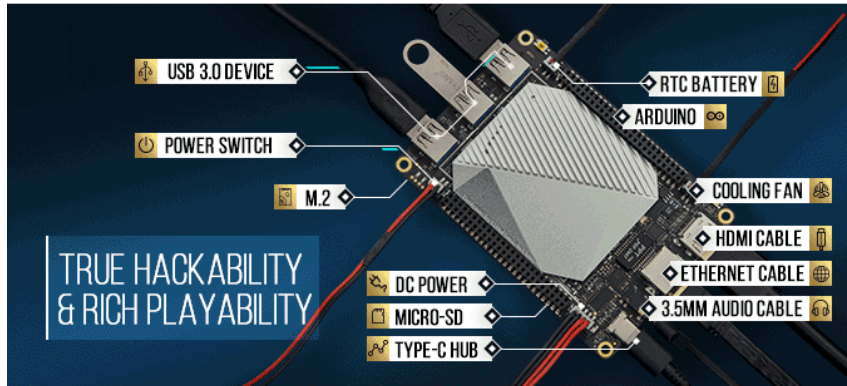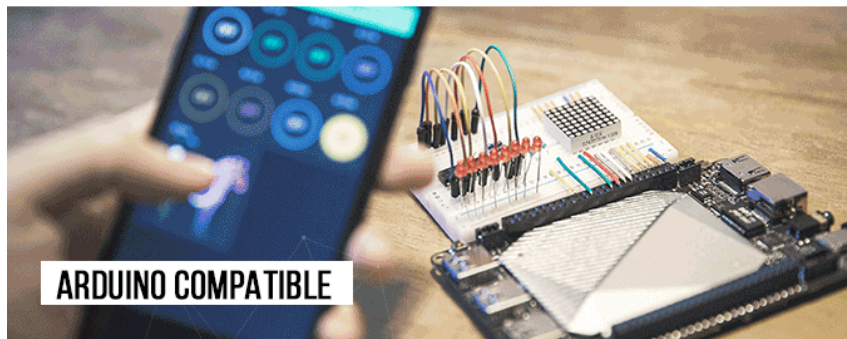## EXTENSIVE DISPLAY SUPPORT
DUAL 4K DISPLAY SUPPORTED

4KUHD
ENABLED

Decode 4K video
at 60 fps

3 WAY
VIDEO OUTPUT

HDMI
DP in USB-C
eDP

MODULAR
INTERACTIVE
TOUCH DISPLAY

Thin frame, low cost
embedded display

UP TO 42 EXPANDABLE INTERFACES

TRUE HACKABILITY AND RICH PLAYABILITY

USB 3.0 DEVICE

POWER SWITCH

M.2

RTC BATTERY

ARDUINO

COOLING FAN

HDMI CABLE

ETHERNET CABLE

3.5MM AUDIO CABLE

DC POWER

MICRO-SD

TYPE-C HUB

TRUE HACKABILITY & RICH PLAYABILITY

INTEGRATED ARDUINO
As Always comes with a Coprocessor

DUAL M.2 PORTS
Supports NMVe SSDs
Supports PCIe

USB TYPE C
USB Power Delivery
Supports Multiple

USB 3.0
3 USB 3.0 Ports
Supports High Speed USB
Peripherals

2x50P
Embedded Pin Headers
Everything you need for Industry
Compatible with thousands of sensors

AUDIO & MICRO SD
Comes with the Fundamentals
3.5mm Audio with microphone

DUAL M.2 CONNECTOR
UNLIMITED PERFORMANCE POTENTIAL

ARDUINO COMPATIBLE

PERFORMANCE STYLED FOR YOUR POCKET

POCKET SIZE

70%
OF IPHONE PLUS SIZE

ULTRA-THIN DESIGN

13.5MM
CONFINE INTO ANY SPACE

AUGMENT YOUR PRIMARY DEVICE
JUST PLUG AND PLAY

The Streaming Cable enables your Windows-enabled LattePanda device to act like a USB on a Mac or Linux system. Just plug & play into your Apple/Linux device! The PiP (Picture in Picture) form also eliminates the switching/use of dual mouse and HDMI to connect different systems forseamless interaction of two different systems.
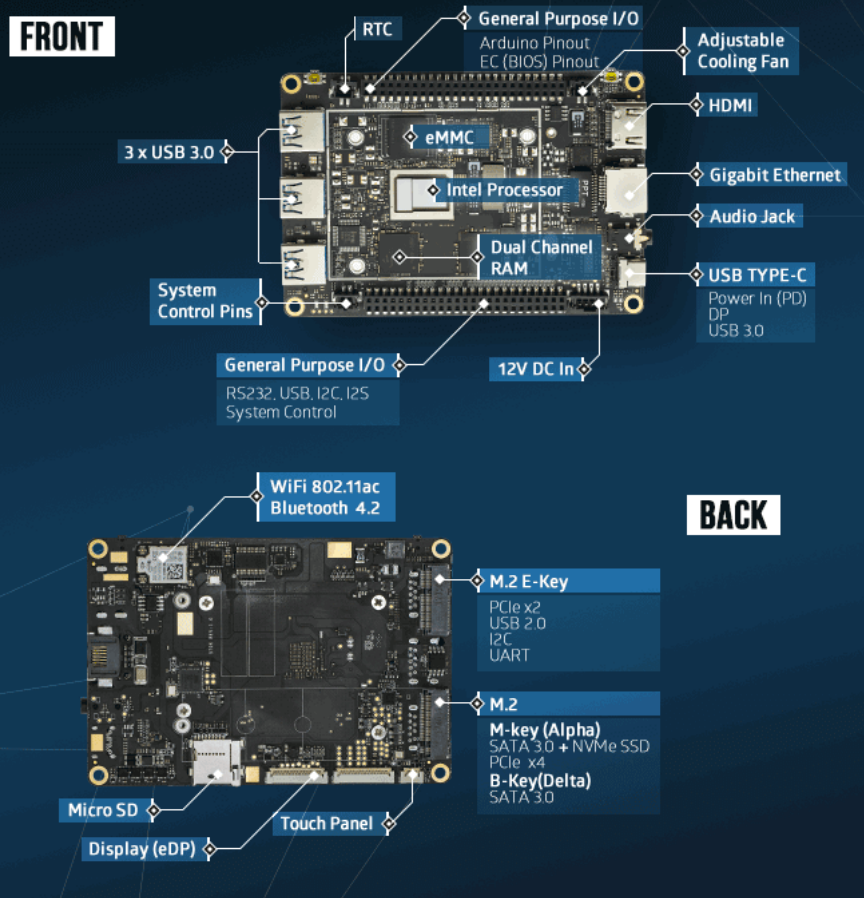
USING WINDOWS-ONLY SOFTWARE AND TOOLS ON MAC DEVICES

Visual Studio @

DESIGNED AS A PRODUCTIVITY TOOL
FROM PROTOTYPES TO PRODUCTIONS TO PRODUCTS – ONE SINGLE SOLUTION

ROBOTICS

SMART FACTORY

HOME AUTOMATION

EDUCATION

CAR ENTERTAINMENT

SMART DEVICE

INTERACTIVE ARTS

AI LOCALIZATION

FEATURE DIAGRAM

FRONT

- RTC
- General Purpose I/O
  Arduino Pinout
  EC (BIOS) Pinout
- Adjustable Cooling Fan
- HDMI
- 3 x USB 3.0
- eMMC
- Intel Processor
- Gigabit Ethernet
- Audio Jack
- Dual Channel RAM
- USB TYPE-C
  Power In (PD)
  DP
  USB 3.0
- System Control Pins
- General Purpose I/O
  RS232, USB, I2C, I2S
  System Control
- 12V DC In

BACK

- WiFi 802.11ac
  Bluetooth 4.2
- M.2 E-Key
  PCIe x2
  USB 2.0
  I2C
  UART
- M.2
  M-key (Alpha)
  SATA 3.0 + NVMe SSD
  PCIe x4
  B-Key(Delta)
  SATA 3.0
- Micro SD
- Touch Panel
- Display (eDP)

SPECIFICATIONS

Lattepanda Alpha Review by ExplainingComputers LattePanda Alpha: Windows & Linux SBC

Play PUBG with this Powerful Single Board Computer LattePanda Alpha

The LattePanda Alpha First Look and PC Gaming Test

LattePanda Alpha External GPU Nvidia GT1030 - eGPU Test

Lattepanda Alpha Emulation Test - GameCube PS2 PSP Dreamcast Naomi

1050ti LattePanda Alpha eGpu Test + Latte Panda Alpha Giveaway!

LattePanda Alpha Hackintosh macOS 10.14 Mojave - Smallest Hackintosh

RetroPie On The LattePanda Alpha - PS2 Gamecube Dreamcast PSP Test

LattePanda Alpha Review by Novaspirit Tech

Guide: LattePanda Alpha Hackintosh Intel M3-7Y30

LattePanda Alpha: Shenanigans with a powerful Single Board Computer

LattePanda Alpha 864s Review - How to Setup & Performance Test (PUBG Gameplay included)

FEATURES

- Solid Spec and Extreme Design

- Dual OS Support – Windows / Linux Both

- Ultimate Networking on Cloud and Things

- Up to 42 Extendable Interfaces bring Rich Playabilities

- Ultra-Thin Design, Minimizing Space Occupation

- Rebuild How to Code Efficiently with Multiple OS

SPECIFICATION

- CPU：Intel 8th m3-8100y

- Core：1.1-3.4GHz Dual-Core, Four-Thread

- Benchmark (PassMark): Up to 4128, double computing power compared with same price range products in the market

- Graphics：Intel HD Graphics 615, 300-900MHz

- RAM：8G LPDDR3

- Memory：64GB eMMC V5.0l

- 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, PCM

- Connectivity：
    WIFI 802.11 AC, 2.4G & 5G
    Dual Band Bluetooth 4.2
    Gigabyte Ethernet

- USB Ports：
    3x USB 3.0 Type A
    1x USB Type C, supports PD, DP, USB 3.0

- Display：
    HDMI Output
    Type-C DP Support
    Extendable eDP touch displays

- Co-processor：Arduino Leonardo

- GPIO & Other Features：2x 50p GPIOs including I2C, I2S, USB, RS232, UART, RTC, Power Management, Extendable power button, everything you need

- OS Support：
Windows 10 Pro
Linux Ubuntu

- Dimension: 115mm * 78mm * 14 mm

DOCUMENTS

- LattePanda Website

SHIPPING LIST

- LattePanda Alpha 864 x1

- Free Gift - Active cooling fan x1

- Free Gift - 45w PD Power adapter x1

TUTORIAL

Pre-order Available For Latest Version of LattePanda

https://www.dfrobot.com/product-1728.html?search=alpha/5-29-19