



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



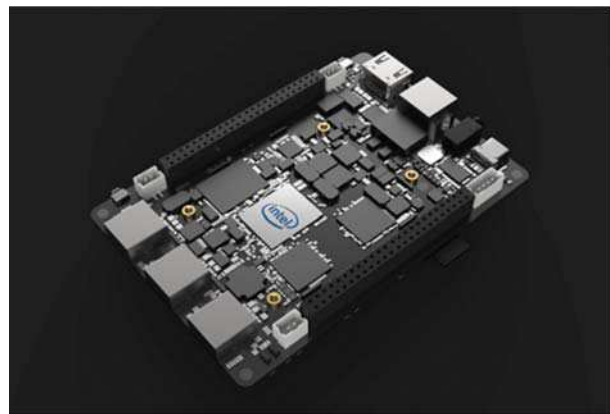
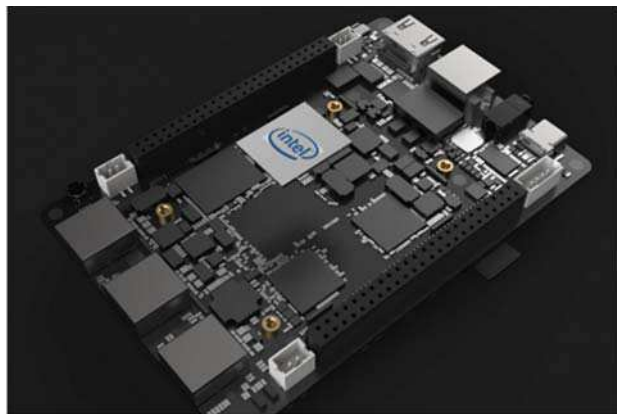
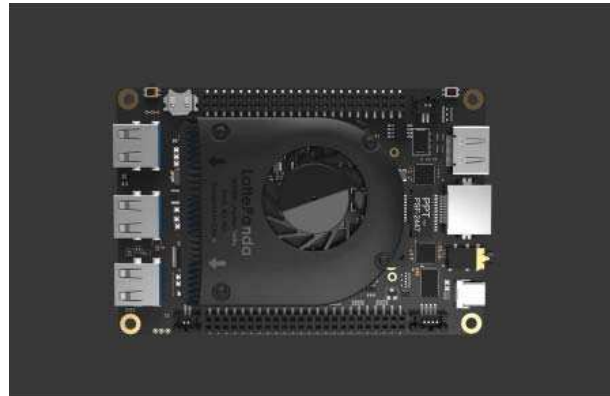
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## LattePanda Alpha 864 – Tiny Ultimate Windows / Linux Device

SKU:DFR0546

### *INTRODUCTION*

LattePanda Delta is currently under the status of Pre-order and will be shipped in September. All pre-orders will be sent along with two free gifts - Active cooling fan & 45w PD Power adapter.



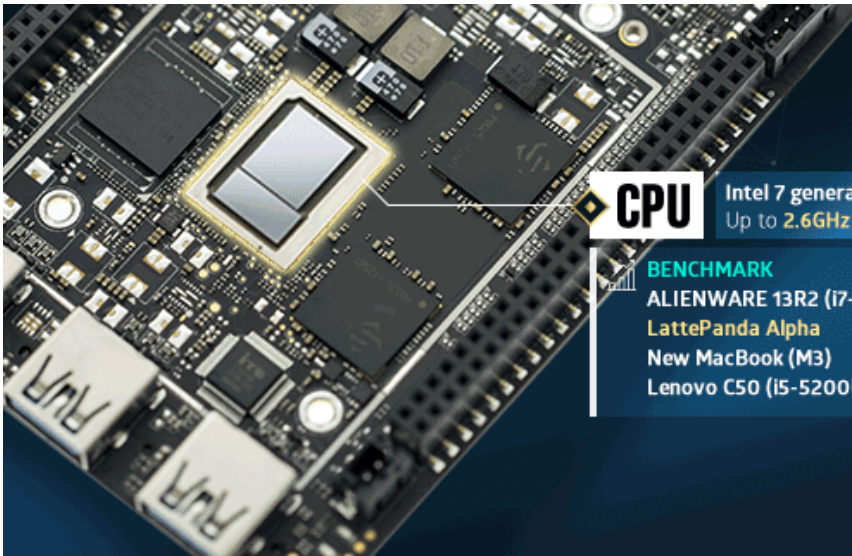


**Alpha Edition** - Generally refers to the leader in a wolf pack,  $\alpha$  / Alpha. It will also be the leader in the LattePanda series, the most powerful in performance. Known as the leader of the Pandas, or "AlphaPanda" for short.



The Alpha Edition uses the same Intel 7th generation Core m3 processor as the latest MacBook. 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.




**CPU** Intel 7 generation Core Processor  
Up to **2.6GHz**

**BENCHMARK**


ALIENWARE 13R2 (I7-6500U)	██████████	4428
LattePanda Alpha	██████████	3801
New MacBook (M3)	██████████	3527
Lenovo C50 (I5-5200U)	██████████	3497

## AN EMBLEM OF PERFORMANCE EMBODYING THE BEST




**8** RAM  
GB

Dual-Channel RAM design  
Double R/W Speed  
LPDDR3 Achieves a data  
rate of **1866 MT/s**



Built-in  
**EMMC 5.0**  
Memory

Blazing read /write speeds  
as a result of the speed boost  
Optional **32GB/64GB** built-in  
memory  
Supports NVMe SSDs



**900** MHz  
Graphic Dynamic Frq

Intel HD Graphics 615  
**60Hz 4K** Support  
Supports Direct X 12  
OpenGL 4.4

# WORLD'S FIRST HACKABLE COMPUTER SYNTHESIZED WITH **WINDOWS 10 PRO**

SUPPLEMENTED WITH **LINUX UBUNTU** COMPATIBILITY

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.





# ULTIMATE NETWORKING ON CLOUD AND THINGS

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This infographic highlights three networking capabilities: Bluetooth 4.2, 802.11 AC WiFi, and Gigabit Ethernet. Each feature is accompanied by a gold icon, a large title, and a brief description of its benefits.

- 4.2 BLUETOOTH**  
Multiple IoT Device Connectivity
- 802.11<sup>AC</sup> 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

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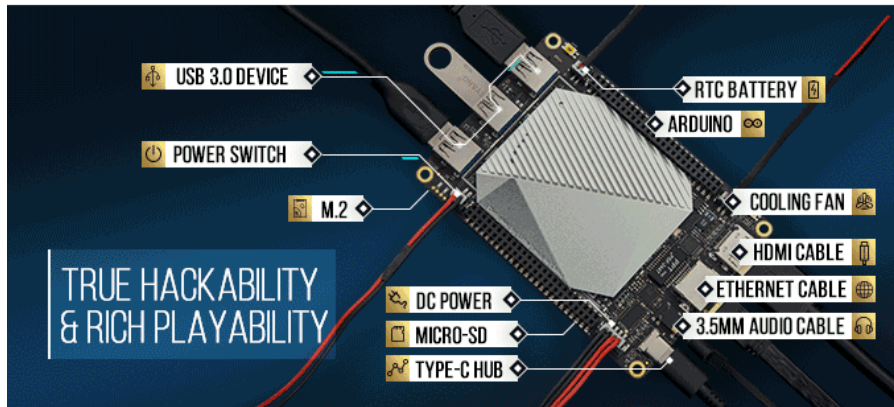


This infographic details three display features: 4K UHD Enabled, 3 Way Video Output, and Modular Interactive Touch Display. Each feature is presented with a gold icon, a large title, and a short description.

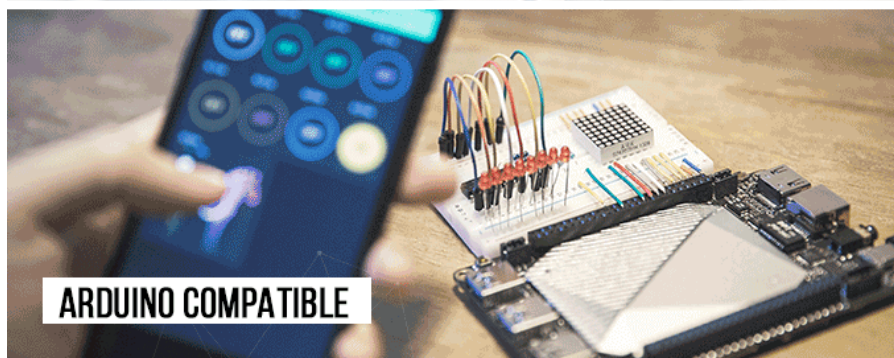
- 4K<sup>UHD</sup> ENABLED**  
Decode 4K video at 60 fps
- 3 WAY VIDEO OUTPUT**  
HDMI  
DP in USB-C  
eDP
- MODULAR INTERACTIVE TOUCH DISPLAY**  
Thin frame, low cost embedded display

# UP TO 42 EXPANDABLE INTERFACES

TRUE HACKABILITY AND RICH PLAYABILITY



<p><b>INTEGRATED ARDUINO</b> As Always comes with a Coprocessor</p>	<p><b>DUAL M.2 PORTS</b> Supports NVMe SSDs Supports PCIe</p>	<p><b>USB TYPE C</b> USB Power Delivery Supports Multiple</p>
<p><b>USB 3.0</b> 3 USB 3.0 Ports Supports High Speed USB Peripherals</p>	<p><b>2x50P Embedded Pin Headers</b> Everything you need for Industry Compatible with thousands of sensors</p>	<p><b>AUDIO &amp; MICRO SD</b> Comes with the Fundamentals 3.5mm Audio with microphone</p>



# PERFORMANCE **STYLED** FOR YOUR POCKET

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**POCKET SIZE**

**70%**  
OF IPHONE PLUS SIZE



**ULTRA-THIN DESIGN**

**13.5MM**  
CONFINE INTO ANY SPACE



## **AUGMENT YOUR PRIMARY DEVICE** JUST PLUG AND PLAY

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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 for seamless interaction of two different systems.



# USING **WINDOWS-ONLY** SOFTWARE AND TOOLS ON **MAC DEVICES**

Visual Studio @ Apple



## DESIGNED AS A **PRODUCTIVITY** TOOL

FROM PROTOTYPES TO PRODUCTIONS TO PRODUCTS – **ONE** SINGLE SOLUTION



**ROBOTICS**



**SMART  
FACTORY**



**HOME  
AUTOMATION**



**EDUCATION**



**CAR  
ENTERTAINMENT**



**SMART  
DEVICE**



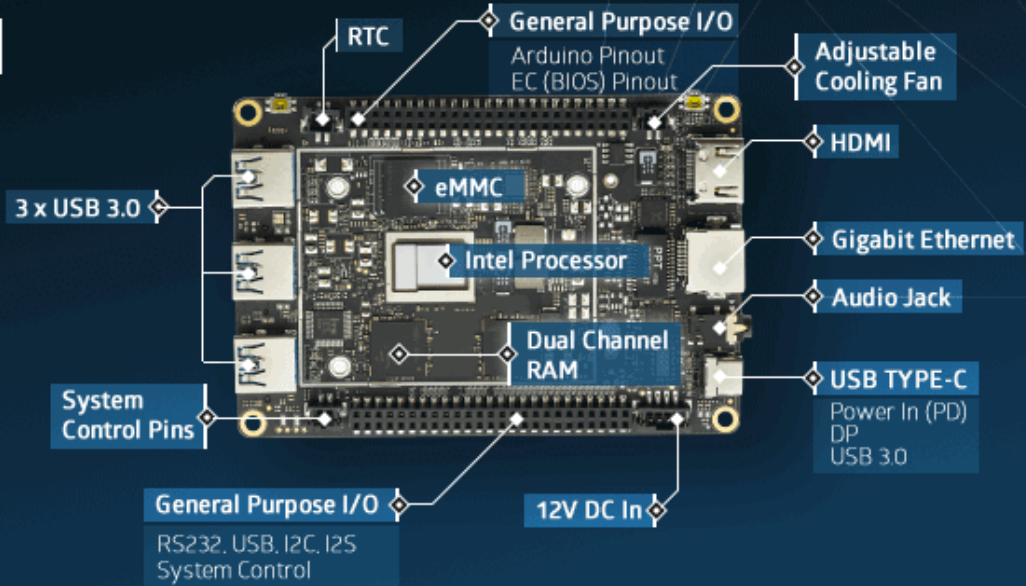
**INTERACTIVE  
ARTS**



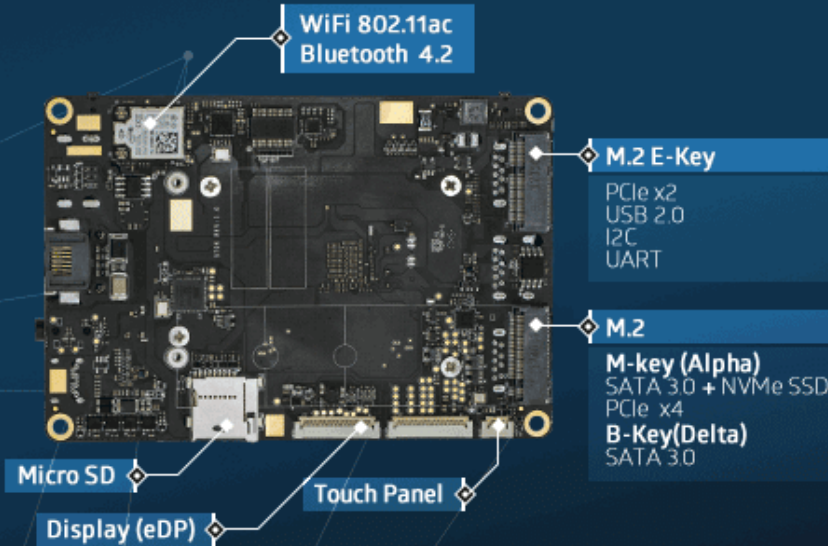
**AI  
LOCALIZATION**

# FEATURE DIAGRAM

## FRONT



## BACK



# SPECIFICATIONS

## *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 7th Gen Core m3-7y30
- Core : 1.6-2.6GHz Dual-Core, Four-Thread
- Benchmark (PassMark): Up to 3500, double computing power compared with same price range products in the market
- Graphics : Intel HD Graphics 615, 300-900MHz
- RAM : 8G LPDDR3 1866MHz Dual-Channel
- Memory : 64GB eMMC V5.0I
- 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

## *SHIPPING LIST*

- LattePanda Alpha 864 x1
- Free Gift - Active cooling fan x1
- Free Gift - 45w PD Power adapter x1

