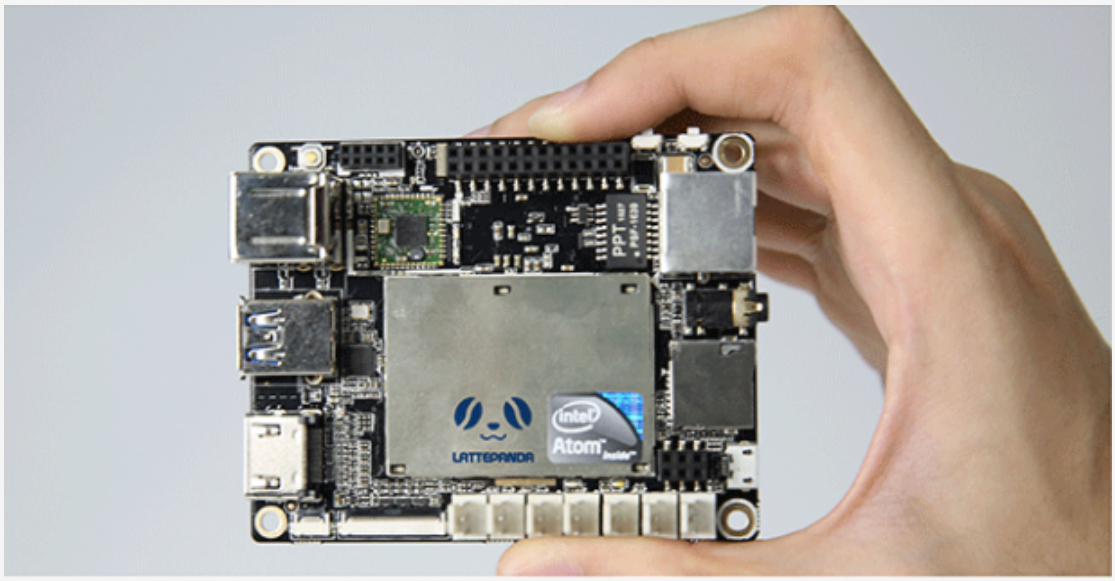
INTRODUCTION

You are viewing a **2GB RAM** LattePanda Windows 10 mini PC **with 32GB eMMC memory**. It **does** include a Windows 10 OEM activation key, which will activate on the initial boot.

This embedded single board computer runs perfectly on the go. Creating documents with Microsoft Office, playing HD videos and running Windows apps on LattePanda is exactly the same experience as using a regular PC.

The Smallest X86 SBC

LattePanda V1(Unactivated, 2GB/32GB) with Win10 Home License is the smallest X86 SBC in LattePanda Family. It has everything a regular PC has and can do anything that a regular PC does.



Fast and Powerful

We have updated the processor since LattePanda V1. All versions of the LattePanda now ship with an upgraded CPU (Intel Z8350 - up to 1.92GHz!)

Integrated Arduino Compatible Processor

A LattePanda also includes an integrated Arduino compatible co-processor: ATmega32u4 , which means it can be used to control and sense the physical world! Whether you are a Windows developer, IoT developer, DIY fanatic, interactive designer, robotics whizz, or maker, a smallest x86 single board computer can aid your creative process!
This smallest x86 single board computer is compatible with almost every gadget you know: printers, joysticks, cameras and more. Any peripherals that work on your PC will work on a LattePanda.

Complete Software Resources for Hardware Development

This embedded single board computer intel atom comes **pre-installed with a full edition of Windows 10 Home Edition**, so you can run powerful tools such as Visual Studio, NodeJS, Java, Processing, and more. And this SBC can compatible with more operating systems: **Raspberry Pi Desktop, Ubuntu, Android x86, other Linux distributions**.

With existing APIs, you can develop your own software and hardware projects on a LattePanda like you would on a normal PC - C#, Javascript, Ruby etc. Say goodbye to your bulky laptop!

Storage

This smallest single board comuter LattePanda V1 onboard onboard 32/64GB eMMC. eMMC is more reliable and has a longer lifespan than TF cards, saving you the trouble of finding TF cards.

Customize LattePanda

LattePanda offers a selection of standard product models to meet the most common application needs of our target market. For those customers who need different features, LattePanda offers customization services. LattePanda provides our customers with a variety of industrial specific product configurations and custom designs to suit customers' specific applications.

For the customization requirement, CLICK HERE

The Best Raspberry Pi Alternative!

LattePanda V1 can achieve all the functions that Raspberry Pi 4B can achieve, not to mention that it also supports the Windows 10 operating system. In the current situation where Raspberry Pi 4B is out of stock and prices are soaring, LattePanda V1 is your best choice!

LattePanda V1:
The Best Raspberry Pi Alternative!

	Raspberry Pi 4B	LattePanda V1 Windows 10 SBC	Highlights of LattePanda V1
Processor	Broadcom BCM2711	Intel Atom x5-Z8350	
Thermal Design Power	4W	2W	Lower power consumption
CPU Spec	Cortex-A72 (ARM v8), 4-Core, 4-Thread, up to 1.5GHz	x86-64, 4-Core, 4-Thread, up to 1.92GHz	
GPU Spec	Broadcom VideoCore VI, up to 500MHz	Intel HD Graphics 400, up to 500MHz	
Memory	2/4/8GB LPDDR4	2/4GB LPDDR3	
Storage	None eMMC MicroSD Card Slot	Onboard 32/64GB eMMC MicroSD Card Slot	Onboard eMMC is more reliable and has a longer lifespan than TF cards, saving you the trouble of finding TF cards.
USB	2 x USB 3.0 Ports 2 x USB 2.0 Ports	1 x USB 3.0 Port 2 x USB 2.0 Ports	
Connectivity	Gigabit Ethernet 802.11ac Wi-Fi, Bluetooth 5.0	100M Ethernet 802.11n Wi-Fi, Bluetooth 4.0	
Display	2 x micro-HDMI Ports 2-lane MIPI DSI	1 x Standard HDMI Port 4-lane MIPI DSI	
Co-processor	None	ATmega32u4 (Arduino Leonardo)	Integrated Arduino Compatible Processor
GPIO	40 x Digital IO Pins	20 x Digital IO Pins, including: 12 x Analog Pins	Enable to collect Analog and Digital signals directly
Power Supply	5V 3A	5V 2.5A	
Operating System	Raspberry Pi OS, Ubuntu, other Linux distributions	Windows 10, Raspberry Pi Desktop, Ubuntu, Android x86, other Linux distributions	More operating systems compatible
Operating Temperature	0~50℃	0~60℃	
Board Dimensions	85mm x 56mm	88mm x 70mm	
Price	As market conditions fluctuate	**Start from $105**	

LattePanda V1 Selection Guide

LattePanda V1 Selection Guide

LattePanda V1 Selection Guide				
Product Name	LattePanda 2GB/32GB(Unactivated)	LattePanda 2GB/32GB(Activated)	LattePanda 4GB/64GB(Unactivated)	LattePanda 4GB/64GB(Enterprise License)
SKU	DFR0444	DFR0418	DFR0419	DFR0470-ENT
System		Windows 10 HOME		Windows 10 Enterprise LTSB
Type	64-bit			
CPU	Intel Cherry Trail Z8350			
Memory	2GB		4GB	
Storage	32GB		64GB	
Co-processor	ATmega32u4			
Wireless	Wi-Fi: IEEE 802.11n Bluetooth 4.0			
Dimensions	88mm x 70mm			
Recommend Reasons In Short	The Cheapest Development Board in LP Family	Activated Win10 Home	Better Performance	Windows 10 Long Term Servicing Branch

APPLICATIONS

- Data Research
- Work as Regular PC
- A Powerful Brain for Robot
- Security Monitoring with Facial Recognition

SPECIFICATION

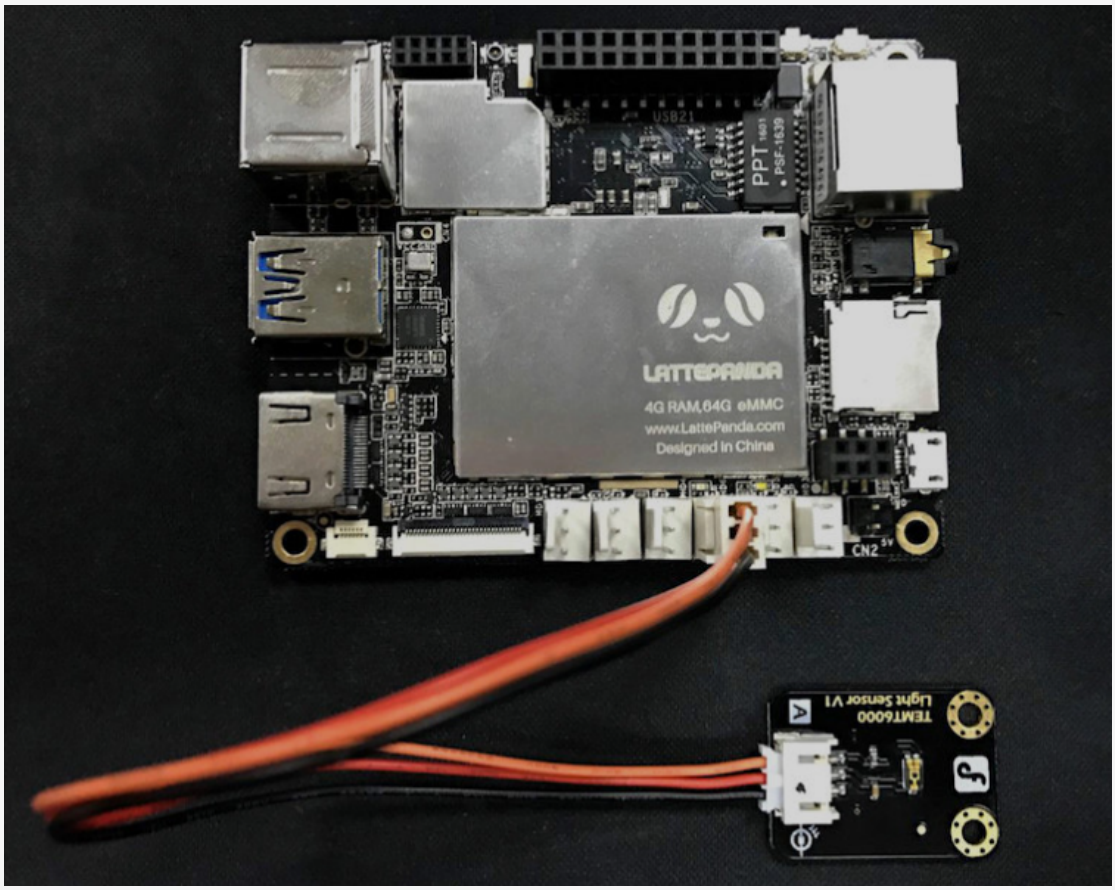
- Intel Cherry Trail Z8350 Quad-Core Processor
- Base Frequency: 1.44GHz (1.92GHz Burst Frequency)
- Operating System: Windows 10 Home Edition
- RAM: 2GB DDR3L
- Storage Capacity: 32GB

- GPU: Intel HD Graphics, 12 EUs @200-500Mhz, single-channel memory
- USB 3.0 x 1, USB 2.0 x 2
- Wi-Fi 802.11n 2.4G
- Bluetooth 4.0
- Integrated Arduino Co-processor: ATmega32u4 (Arduino Leonardo)
- Video output: HDMI and MIPI-DSI
- Onboard touch panel overlay connector
- Supports 100Mbps Ethernet
- Intel Processor GPIO x 6
- ATmega Processor GPIO x 20
- Gravity Interface Connectors x 6
- Voltage: 5V@2A
- Board Dimensions: 88 x 70mm / 3.46 x 2.76"
- Package Dimensions: 110 x 94 x 30 mm/4.33 x 3.70 x 1.18"
- NET Weight: 55g
- Gross Weight: 100g

PROJECTS

Project 1. **LattePanda Project: Water Cooling LattePanda**
Introduction: Rasim Muratovic is a YouTube reviewer. He used the water to cool the LattePanda. We'd like to share this interesting project with all of you.

Project 2. **LattePanda Project: Send light sensor data to Azure storage**
Introduction: This sample shows how to send data from a light sensor to Azure storage using a Node.JS app.



Project 3. [LattePanda Project: C# Arduino GUI to control the LED]
Introduction: This tutorial will tell you how to make a simplest GUI to control your arduino. Basicly, this post is about communication between C# and Arduino

Project 4. [MicroDot for LattePanda (or Raspberry Pi)]
Introduction: The MicroDot is a home-made Alexa 'button' designed to be connected to a LattePanda or a Raspberry Pi, with Alexa Sample App installed.

DOCUMENTS

- Official Website
- User Guide
- FAQ
- Github Repository

- 3D Model
- Compliance Certificates
- Pin Mapping
- RoHS, FCC and CE Compliant

SHIPPING LIST

- LattePanda 2G/32GB x 1
- WiFi Antenna x 1
- Printed Safety Precautions x 1