LattePanda Mu Micro x86 Compute Module

DFR1146

Product Overview

06/20/2024

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

Description

DFRobot LattePanda Mu Micro x86 Compute Module features an Intel N100 quad-core processor, 8GB LPDDR5 memory, and 64GB storage. This compute module includes expansion pins such as 3 HDMI/DisplayPort, 8 USB 2.0, up to 4 USB 3.2, and up to 9 PCIe 3.0 lanes. The Intel N100 quad-core processor with a 3.4GHz turbo frequency offers ample performance and multitasking capabilities for various applications. The LattePanda Mu compute module is card-sized, with dimensions of 69.6mm x 60mm, which allows for integration into space-constrained devices. The LattePanda Mu x86 compute module offers a 6W to 35W configurable Thermal Design Power (TDP), providing flexibility in power usage and heat output. The LattePanda Mu compute module supports multiple operating systems, including Windows® 10, Windows 11, and Ubuntu.

Features

- Intel Processor N100 (up to 3.4GHz, 4-core, and 4-thread)
- Onboard 8GB 4800MHz LPDDR5 memory with IBECC supported
- 64GB eMMC 5.1 storage
- 6W to 35W configurable TDP
- Multiple OS support:
  - Windows 10
  - Windows 11
  - Ubuntu
- Rich expansion pins:
  - 3 HDMI/DisplayPort
  - 8 USB 2.0
  - Up to 4 USB 3.2
  - 9 PCIe 3.0 lanes
  - 2 SATA 3.0
  - 64 expandable GPIOs
- Open-source design files (KiCAD) of carrier boards

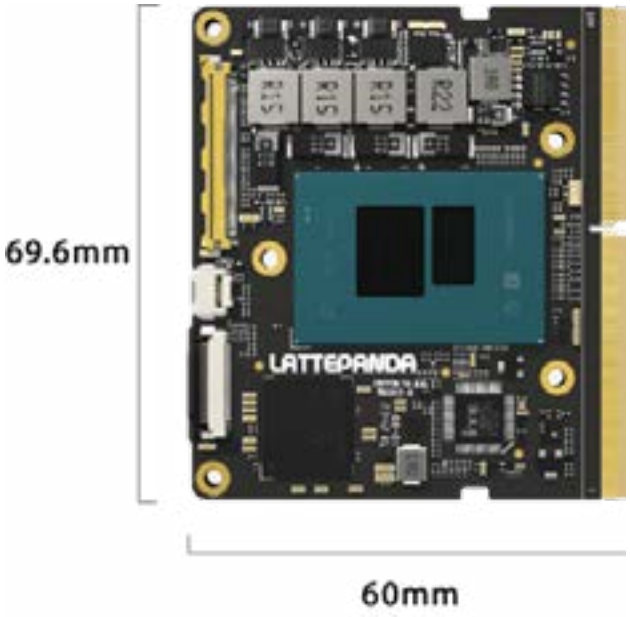
Specifications

- Display:
  - 3x outputs
  - 4096 x 2160 at 60Hz maximum resolution
- I/O:
  - PCIe 3.0 up to 9 lanes
  - SATA 3.0 up to 2 ports
  - USB 3.2 (10Gbps) up to 4 ports
  - USB 2.0 (480Mbps) 8 ports
  - I^2C, UART and GPIOs
  - 9V to 20V power
- 0°C to 60°C operating temperature range
- 0% to 80% relative humidity
- 69.6mm x 60mm size

Applications

- Handheld devices
- AI interaction robot

Dimension Diagram



LattePanda Mu N100

The information contained in this document should be used as a guideline only.

Mouser Part Number

View Part

To learn more, visit https://www.mouser.com/new/dfrobot/dfrobot-lattepanda-mu-compute-module/

The information contained in this document should be used as a guideline only.