

INTRODUCTION - LattePanda Mu

LattePanda Muは、Intel N100クアッドコアプロセッサ、8GBのLPDDR5メモリ、64GBのストレージを搭載したマイクロx86コンピュータモジュールです。LattePanda Muは、3つのHDMI/DisplayPort、8つのUSB 2.0、最大4つのUSB 3.2、最大9つのPCIe 3.0レーンなど、豊富なピンを露出しています。これらの柔軟なポートとオープンソースのキャリアボードファイルにより、ユーザーは独自の要件に合わせたカスタムキャリアボードを容易に設計することができます。

ITEM NAME

SPECIFICATION

PRODUCT No

1)LattePanda Mu - A Micro x86 Compute Module

型番:DFR1146



- *Processor: Intel Processor N100 4 Cores up to 3.4GHz
- *Memory: LPDDR5 4800MT/s 8GB with IBEC supported
- *Storage: eMMC 5.1 64GB
- *Display: 3 Outputs; Max Resolution 4096 x 2160@60Hz
- *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
 - I2C, UART and GPIOs
- *Power: 9~20V
- *Operating System: Windows, Ubuntu
- *Environment: 0~60°C; 0~80% relative humidity
- *Size: 69.6 x 60mm

2)Lite Carrier Board for LattePanda Mu Compute Module(Option Carrier Board)

型番:DFR1142



- *Power Input
 - USB Type-C: 15V (Max 3A)
 - DC 5.5x2.5mm: 12~20V (Max 10A)
- *Internal Interfaces
 - PCIe 3.0 x4 slot (only available when using 12V power supply)
 - M.2 M Key 2230 (PCIe 3.0 x1)
 - M.2 E Key 2230 (PCIe 3.0 x1, USB2.0)
 - RTC battery socket (CR1220 3V)
 - CPU fan socket
 - Gravity-4P UART
 - Gravity-4P I2C
- *External Interfaces
 - USB 3.2 10Gbps x2
 - Gigabit Ethernet
 - USB 2.0 x2
 - HDMI 2.0
 - USB Type-C (for power supply only)
 - DC 5.5x2.5mm
- *Size: 3.5 inches, 146mm×102mm

3) Full-Function Evaluation Carrier Board for LattePanda Mu Compute Module (Option Carrier Board)

型番:DFR1141



*Front I/O Interface

- 1x 3.5mm microphone interface
- 1x 3.5mm headphone interface
- 2x USB 2.0
- 4x USB 3.0
- 1x USB Type-C (supports USB 2.0, USB 3.0, DisplayPort)
- 1x DB9 (RS232)
- 1x SIM card slot

*Rear I/O Interface

- 1x Power button
- 2x Intel 2.5GbE network interfaces
- 2x HDMI 2.0 interfaces
- 1x DC 5.5x2.5mm power jack
- 1x DC Power 5.08mm Screw Terminal Plug

*Expansion Slots

- 1x PCIe 3.0 x1 slot
- 1x PCIe 3.0 x4 slot (multiplexed with the SATA signals)
- 1x M.2 E Key slot: Supports 2230 Type WLAN card (PCIe 3.0 x1, USB 2.0; multiplexed with the Ethernet port 2 (RJ45_2) signals)
- 1x M.2 B Key slot: Supports 3042/3052 Type 4G/5G WWAN card (USB 3.0, USB 2.0)
- 2x SATA 6Gb/s interfaces (multiplexed with the PCIe 3.0 x4 signals)

*Pins/ Jumpers/Buttons

- 1x CPU fan interface (CPU_FAN)
- 1x System fan interface (SYS_FAN)
- 1x MIPI CSI-2 interface (MIPI_CSI)
- 1x I2S header (I2S1)
- 1x TPM header (TPM)
- 1x eSPI header (ESPI_CON)
- 1x Auto power-on jumper (AUTO_PWR)
- 1x Temperature sensor header (TMP)
- 1x USB 2.0 header (F_USB1)
- 1x Front panel header (F_PANEL1)
- 1x UART and I2C header (UART_I2C_1)
- 1x SoC GPIO header (GPIO_1)
- 1x Speaker interface (SPEAKER)
- 1x HD Audio header (F_AUDIO)
- 1x Function Configuration DIP switches (ID_SW)
- 1x USB header power control jumper (F_USB_PWR)
- 1x Front USB power control jumper (R_USB_PWR)
- 1x PoE power header (POE_IN)
- 1x Hard disk power interface (HDD_PWR1)
- 1x Power input header (POE_OUT)
- ITX Dimension: 170 x 170mm

4) Aluminum Active Cooler for LattePanda Mu Compute Module



- *Compatible motherboard: LattePanda Mu
- *Operating voltage: 5V
- *Operating current: 0.35A
- *Maximum rotational speed: 4000 RPM
- *Wire length: 105mm
- *Interface type: PH2.0-4P
- *Dimensions: 69.6 * 50.4 * 19mm
- *Material: Aluminum alloy
- *Weight: 69g

型番:FIT0981

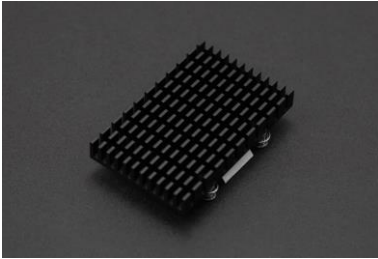
5) Aluminum Fanless Heatsink for LattePanda Mu Compute Module



- *Compatible: LattePanda Mu
- *Heat dissipation capacity: TDP 6W, temperature rise of 35°C; TDP *10W, temperature rise of 60°C
- *Dimensions: 70 * 45.5 * 33mm
- *Material: Aluminum alloy
- *Weight: 100g

型番:FIT0989

6)Aluminum Passive Thin Heatsink for LattePanda Mu Compute Module



- *Compatible: LattePanda Mu
- *Dimensions: 70 * 45 * 11mm
- *Material: Aluminum alloy
- *Weight: 50g

型番:FIT0982

7)LattePanda Mu Micro x86 Compute Module Evaluation Kit (N100, 8GB RAM, 64GB eMMC)



LattePanda Mu Compute Module

- Processor: Intel Processor N100 4 Cores up to 3.4GHz
- Memory: LPDDR5 4800MT/s 8GB with IBEEC supported
- Storage: eMMC 5.1 64GB
- Display: 3 Outputs; Max Resolution 4096 x 2160@60Hz
- 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
 - I2C, UART and GPIOs
- Power: 9~20V
- Operating System: Windows, Ubuntu
- Environment: 0~60°C; 0~80% relative humidity
- Size: 69.6 x 60mm

型番:KIT0200

Lite Carrier Board for LattePanda Mu

*Power Input

- USB Type-C: 15V (Max 3A)
- DC 5.5x2.5mm: 12~20V (Max 10A)

*Internal Interfaces

- PCIe 3.0 x4 slot (only available when using 12V power supply)
- M.2 M Key 2230 (PCIe 3.0 x1)
- M.2 E Key 2230 (PCIe 3.0 x1, USB2.0)
- RTC battery socket (CR1220 3V)
- CPU fan socket
- Gravity-4P UART
- Gravity-4P I2C

*External Interfaces

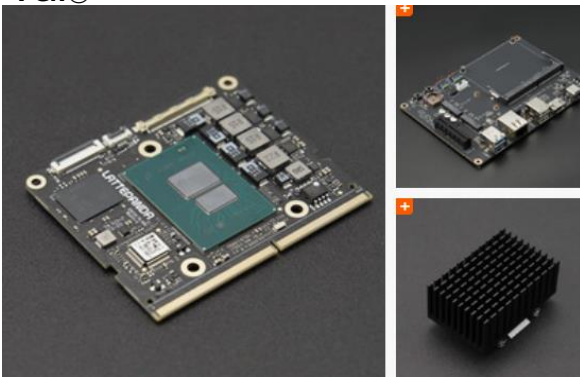
- USB 3.2 10Gbps x2
- Gigabit Ethernet
- USB 2.0 x2
- HDMI 2.0
- USB Type-C (for power supply only)
- DC 5.5x2.5mm
- Size: 3.5 inches, 146mm×102mm

LattePanda Mu Active Cooler

- Compatible: LattePanda Mu
- Operating voltage: 5V
- Operating current: 0.35A
- Maximum rotational speed: 4000 RPM
- Wire length: 105mm
- Interface type: PH2.0-4P
- Dimensions: 69.6 * 50.4 * 19mm
- Material: Aluminum alloy
- Weight: 69g

8)LattePanda Mu - A Micro x86 Compute Module powered by Intel Processor N100

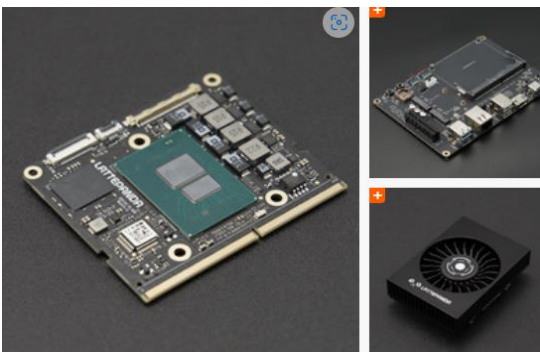
Ver.①



- Computer Module* LattePanda Mu
- Carrier Board* Lite Carrier Full-Function Evaluation Carrier
- Cooling Solutions* Active Cooler Fanless Heatsink

※アダプタ (19V 90W AC/DC) は、付属していません。

Ver.②



- Computer Module* LattePanda Mu
- Carrier Board* Lite Carrier Full-Function Evaluation Carrier
- Cooling Solutions* Active Cooler Fanless Heatsink

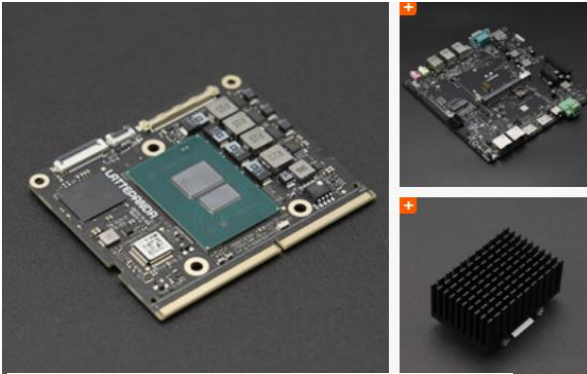
※アダプタ (19V 90W AC/DC) は、付属していません。

型番:DFR1146

- *Processor: Intel Processor N100 4 Cores up to 3.4GHz
- *Memory: LPDDR5 4800MT/s 8GB with IBEC supported
- *Storage: eMMC 5.1 64GB
- *Display: 3 Outputs; Max Resolution 4096 x 2160@60Hz
- *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
 - I2C, UART and GPIOs
- *Power: 9~20V
- *Operating System: Windows, Ubuntu
- *Environment: 0~60°C; 0~80% relative humidity
- *Size: 69.6 x 60mm

- *Processor: Intel Processor N100 4 Cores up to 3.4GHz
- *Memory: LPDDR5 4800MT/s 8GB with IBEC supported
- *Storage: eMMC 5.1 64GB
- *Display: 3 Outputs; Max Resolution 4096 x 2160@60Hz
- *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
 - I2C, UART and GPIOs
- *Power: 9~20V
- *Operating System: Windows, Ubuntu
- *Environment: 0~60°C; 0~80% relative humidity
- *Size: 69.6 x 60mm

Ver.③



Computer Module*

LattePanda Mu

Carrier Board*

Lite Carrier

Full-Function Evaluation Carrier

Cooling Solutions*

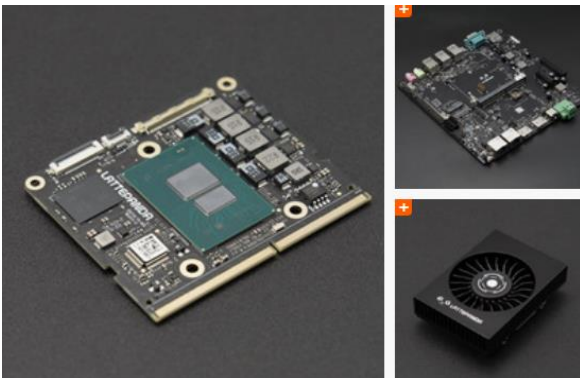
Active Cooler

Fanless Heatsink

※アダプタ (19V 90W AC/DC) は、付属していません。

*Processor: Intel Processor N100 4 Cores up to 3.4GHz
*Memory: LPDDR5 4800MT/s 8GB with IBEC supported
*Storage: eMMC 5.1 64GB
*Display: 3 Outputs; Max Resolution 4096 x 2160@60Hz
*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
 I2C, UART and GPIOs
*Power: 9~20V
*Operating System: Windows, Ubuntu
*Environment: 0~60°C; 0~80% relative humidity
*Size: 69.6 x 60mm

Ver.④



Computer Module*

LattePanda Mu

Carrier Board*

Lite Carrier

Full-Function Evaluation Carrier

Cooling Solutions*

Active Cooler

Fanless Heatsink

※アダプタ (19V 90W AC/DC) は、付属していません。

*Processor: Intel Processor N100 4 Cores up to 3.4GHz
*Memory: LPDDR5 4800MT/s 8GB with IBEC supported
*Storage: eMMC 5.1 64GB
*Display: 3 Outputs; Max Resolution 4096 x 2160@60Hz
*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
 I2C, UART and GPIOs
*Power: 9~20V
*Operating System: Windows, Ubuntu
*Environment: 0~60°C; 0~80% relative humidity
*Size: 69.6 x 60mm