



## NanoPi2

The NanoPi2 is a newly released ARM board by FriendlyARM which advances the NanoPi by featuring Samsung's S5P4418 Quad Core A9@1.4GHz processor, 1G 32bit DDR3 RAM, rich video and display interfaces and two MicroSD slots. Its Quad Core A9@1.4GHz processor and 1G RAM make Linux and Android booted from a TF card fast

and smoothly. Its adoption of the Raspberry Pi's GPIO pin header makes it compatible with both Raspberry Pi's external GPIO modules and Arduino's shield boards. Its two MicroSD slots make it support up to two external TF cards' storage. Its video and display interfaces include a DVP camera interface, an HDMI interface and an LCD interface which make it work with various popular display devices. The NanoPi2's on-board AP6212 Wireless and Bluetooth chip supports 802.11 b/g/n, AP mode, BLE 4.0 and HS mode.

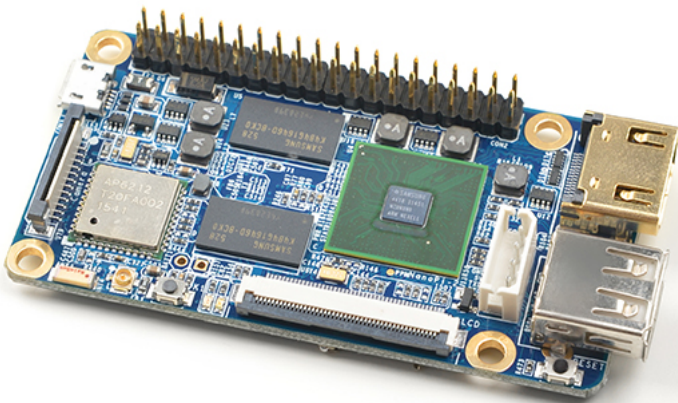
On the NanoPi2's wiki FriendlyARM open sources its schematics, PCB, bootloader, kernel and file systems, and provides plenty of tutorials and code samples.

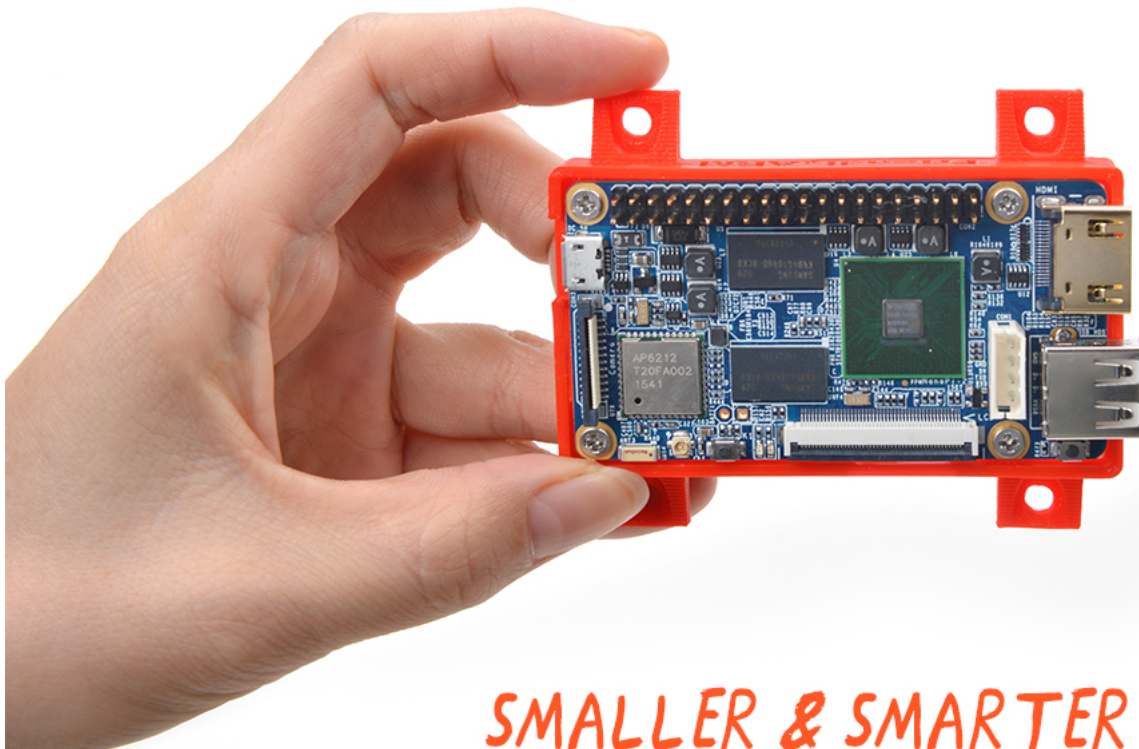
### Features

- SoC: Samsung S5P 4418 Quad Core Cortex-A9, 1.4G Hz
- System Memory: 1GB 32bit DDR3 RAM
- Storage: 2 x Micro SD Slot
- Connectivity: AP6212 Wireless and Bluetooth, 802.11 b/g/n, AP mode, BLE 4.0, HS mode
- HDMI: 1 x HDMI 1.4A, Type-A
- LCD: 0.5 mm spacing 45 pin interface
- Camera: 0.5mm spacing 24 pin DVP interface
- GPIO: 40 pin GPIO pin header, compatible with Raspberry Pi's GPIO pin header
- Debug Serial Port/UART0: 2.5 mm spacing 4pin interface
- USB: 1 x USB 2.0 host Type-A; 1 x Micro USB for data transmission and power input
- OS: Android and Debian
- PCB: Six-layer
- Dimension: 75 x 40 mm
- Weight: 22 g

- 1.
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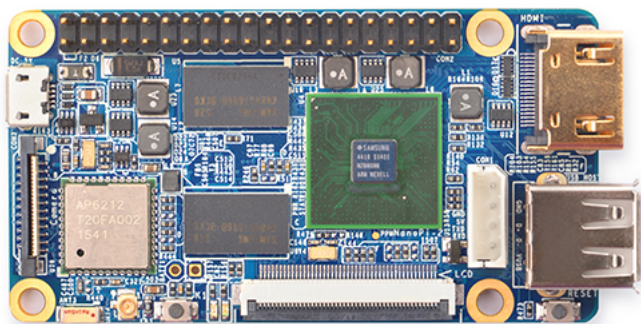




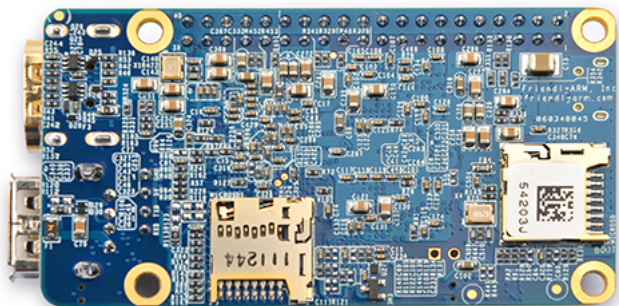
**SMALLER & SMARTER**  
*NanoPi 2: For makers*

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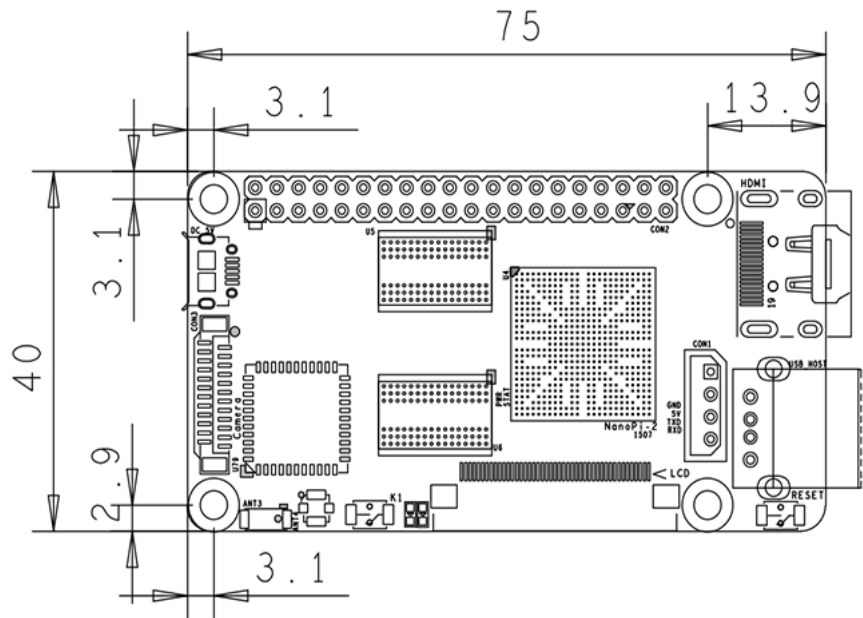
Board Views and Diagram



Vertical View (Front)



Vertical View (Back)



Dimensional Drawing

Applications of NanoPi2

Android

Android 4.4.2 Ready  
WiFi and Bluetooth supported. Boot OS from a TF card.

Specifications

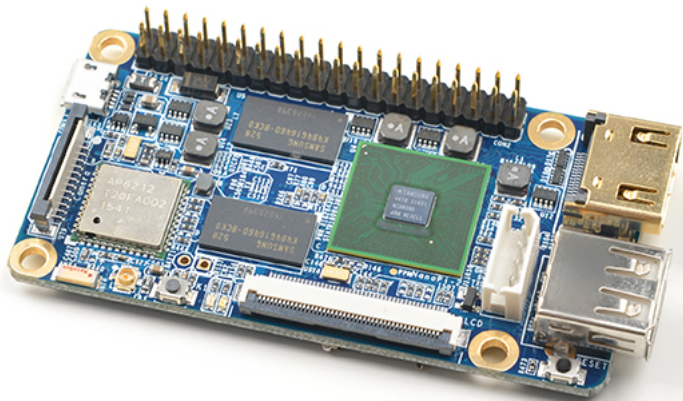
Item	Details
Processor	Samsung S5P 4418 Quad Core Cortex-A9, 1.4G Hz
Memory	1GB 32bit DDR3 RAM
Storage	2 x Micro SD Slot
USB Host	1 x USB 2.0 host Type-A
Micro USB	1 x Micro USB for data transmission and power input
LCD	0.5 mm pitch SMT FPC seat, full-color LCD (RGB: 8-8-8)
Camera	0.5mm spacing 24 pin DVP interface
WiFi & Bluetooth	AP6212 Wireless and Bluetooth, 802.11 b/g/n, AP mode, BLE 4.0, HS mode
GPIO	40 pin GPIO pin header, compatible with Raspberry Pi's GPIO pin header
Debug Serial Port/UART0	2.5 mm spacing 4pin interface
Power	1 x Micro USB for power input
PCB Dimension	75 x 40 mm
Weight	22 g

How to Order

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Item	Description	Order Info	Price(USD)	Order It!
	NanoPi2 Single Board			





- One NanoPi Single Board
- **Optional LCD Modules:7"** LCD with Capacitive Touch Panel
- \* It doesn't include any cable sets*
- \* Introductory price: \$32 only valid till Jan 1, 2016*

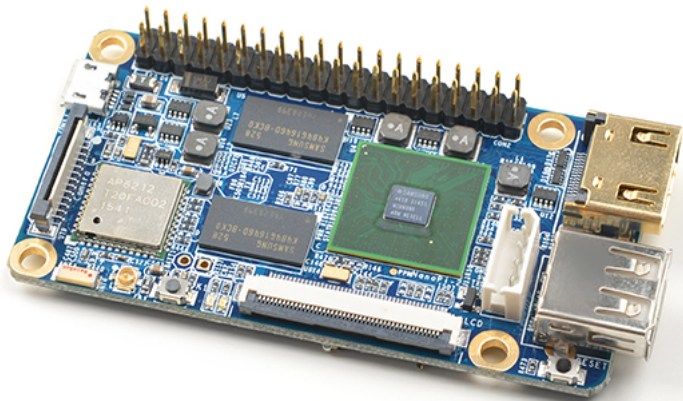
Nan  
Single  
  
Nan  
Single  
7 inch  
Capa  
LCD

Item

Description

Order Info   **Price(USD)**   Order It!

**NanoPi2 Single Board**



- One NanoPi Single Board
- 3D housing(white)
- \* It doesn't include any cable sets*
- \* Introductory price: \$32 only valid till Jan 1, 2016*

NanoPi2 Single Board	<b>\$32</b>	<a href="#">Add to Cart</a>
NanoPi2 Single Board + 3D housing(white)	<b>\$34.5</b>	<a href="#">Add to Cart</a>

Item

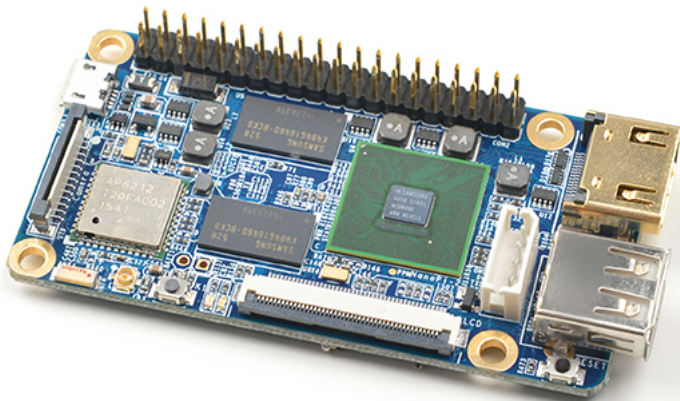
Description

Order Info   **Price(USD)**   Order It!

**NanoPi2 Single Board**

- One NanoPi Single Board
- **Optional LCD Modules:7"** LCD with

NanoPi2 Single Board	<b>\$32</b>	<a href="#">Add to Cart</a>
NanoPi2		



Capacitive  
Touch Panel

- 3D housing(white)  
\* It doesn't include any cable sets  
\* Introductory price: \$32 only valid till Jan 1, 2016

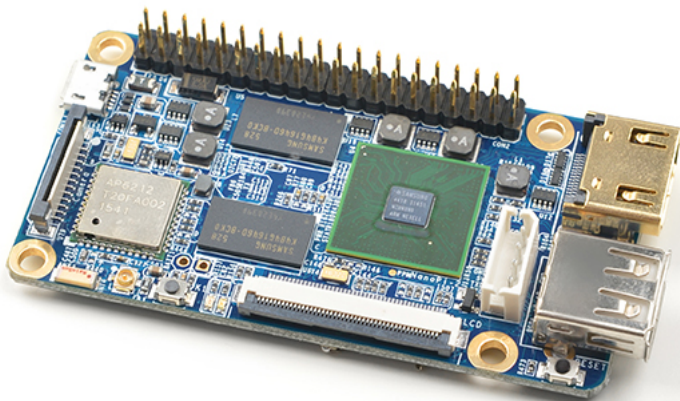
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3D  
housi  
+ 7 in  
Capa  
LCD

Item

Description Order Info Price(USD) Order It!

NanoPi2 Single Board

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- Optional LCD Modules:7" LCD with Capacitive Touch Panel
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Item

Description Order Info Price(USD) Order It!

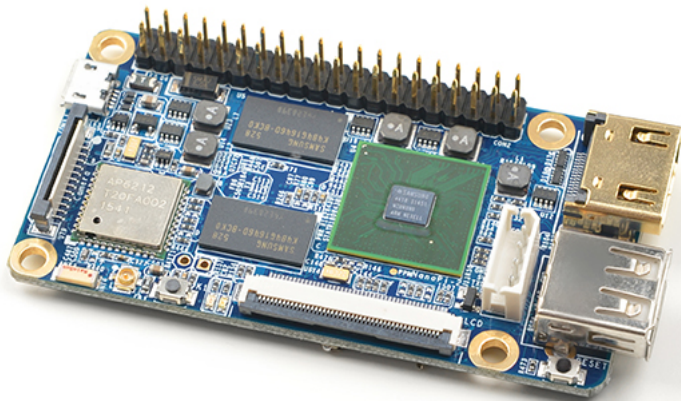
NanoPi2 Single Board

- One NanoPi Single Board

NanoPi2 Single Board	\$32	<a href="#">Add to Cart</a>
NanoPi2 Single Board + TTL To RS232 Module	\$35.5	<a href="#">Add to Cart</a>

- Matrix
  - \* It doesn't include any cable sets*
  - \* Introductory price: \$32 only valid till Jan 1, 2016*

Nan
Single
Nan
Single
Matrix



OPTIONAL ACCESSORIES



8GB TF Card

\$6 USD

[Add to Cart](#)



TTL To RS232 Module

\$3.95 USD

[Add to Cart](#)



4.3 inch Resistive LCD

\$25 USD

[Add to Cart](#)



7 inch Resistive LCD



**\$35 USD**[Add to Cart](#)

LCD1602-keypad

**\$5.9 USD**[Add to Cart](#)

NanoPi2 Frame

**\$2.99 USD**[Add to Cart](#)

FA-CAM202

**\$16.00 USD**[Add to Cart](#)

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