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> NanoPi NEO (http://www.friendlyarm.com/index.php?route=product/product&product_id=132)



(http://www.friendlyarm.com/image/cache/catalog/details/NanoPi-NEO_01-900x630.jpg)

900x630.jpg)

NanoPi NEO

★★★★★ 8 reviews / [Write a review](#)

\$7.99

101 or more **\$8.40**

Availability: In Stock

Brand: FriendlyARM (http://www.friendlyarm.com/index.php?route=product/manufacturer/info&manufacturer_id=8)

Product Code: NanoPi NEO

Available Options

* DDR3 RAM

512M RAM (+\$2.00)

256M RAM

* NanoPi NEO Purchase Combination

NanoPi NEO Heat Sink (+\$2.97)

NanoPi NEO 3D Printed Housing (Blue) (+\$2.97)

SanDisk Ultra 8GB Class 10 UHS-I MicroSDHC Memory Card (+\$6.97)

- 5V 3A Universal USB Port Power Adapter (+\$8.97)
- Micro USB Cable (+\$1.97)
- TTL To RS232 Module (+\$3.95)
- 4-layer Dual Stack Acrylic Case for Cluster DIY (+\$12.87)
- Mini USB Wi-Fi (+\$6.97)
- No, thank you

QTY: ADD TO CART  

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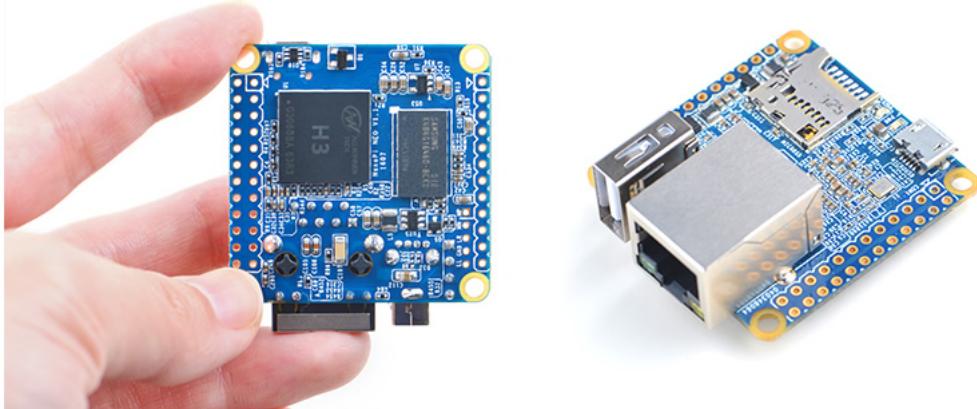
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Share 21**DESCRIPTION****REVIEWS (8)**

Tiny N for Numerous Fun


 NanoPi NEO

Allwinner H3, 40 x 40 mm, Ubuntu Ready



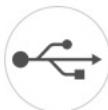
40*40mm size



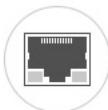
Cortex-A7 Quad-Core



256M/512M DDR3 RAM



USB 2.0 x 3



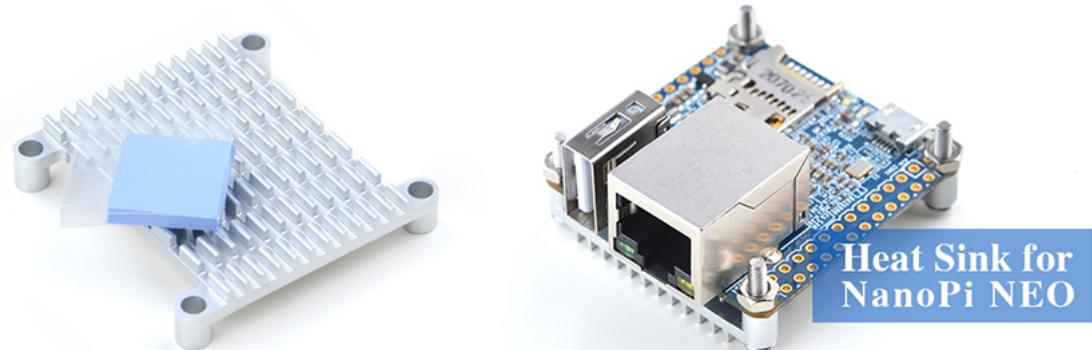
100Mbps Ethernet

Optional Accessories

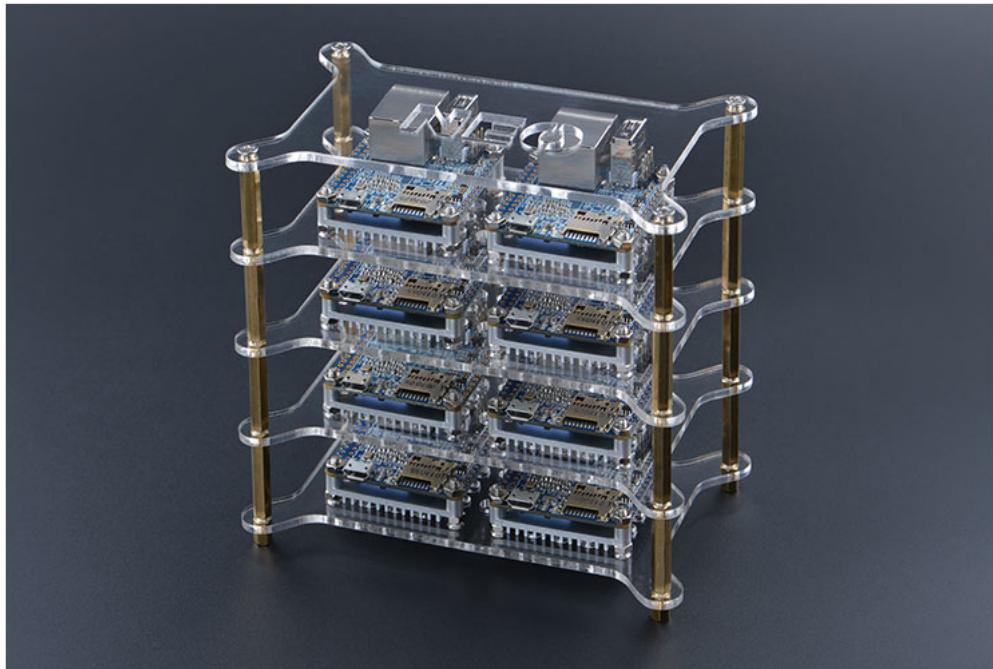
 SanDisk 8G MicroSD Card (\$8.97) (http://www.friendlyarm.com/index.php?route=product/product&path=76&product_id=95)	 5V/3A MicroUSB Power Adapter (\$8.97) (http://www.friendlyarm.com/index.php?route=product/product&path=73&product_id=127)	 NanoPi NEO Heat Sink (\$1.97) (http://www.friendlyarm.com/index.php?route=product/product&path=82&product_id=134)	 Hi-Quality MicroUSB Cable (\$1.97) (http://www.friendlyarm.com/index.php?route=product/product&path=84&product_id=99)	 Clear Acrylic Case (\$2.99) (http://www.friendlyarm.com/index.php?route=product/product&product_id=153)
 3D Printed Housing (\$2.97) (http://www.friendlyarm.com/index.php?route=product/product&product_id=137)	 Matrix Starter Kit (\$32.87) (http://www.friendlyarm.com/index.php?route=product/product&product_id=84)	 TTL To RS232 Module (\$3.95) (http://www.friendlyarm.com/index.php?route=product/product&product_id=89)	 LCD 1602 & Keypad (I2C) (\$8.87) (http://www.friendlyarm.com/index.php?route=product/product&product_id=85)	

				
2MP USB Camera Module (\$15.97) (http://www.friendlyarm.com/index.php?route=product/product&path=78&product_id=90)	RTC Module (I2C) (\$2.97) (http://www.friendlyarm.com/index.php?route=product/product&path=78&product_id=113)	3-Axis Digital Compass (I2C) (\$5.87) (http://www.friendlyarm.com/index.php?route=product/product&path=79&product_id=146)	GPS Module (UART) (\$19.87) (http://www.friendlyarm.com/index.php?route=product/product&path=79&product_id=93)	Pressure & Temperature Sensor (I2C) (\$4.97) (http://www.friendlyarm.com/index.php?route=product/product&path=73&product_id=121)

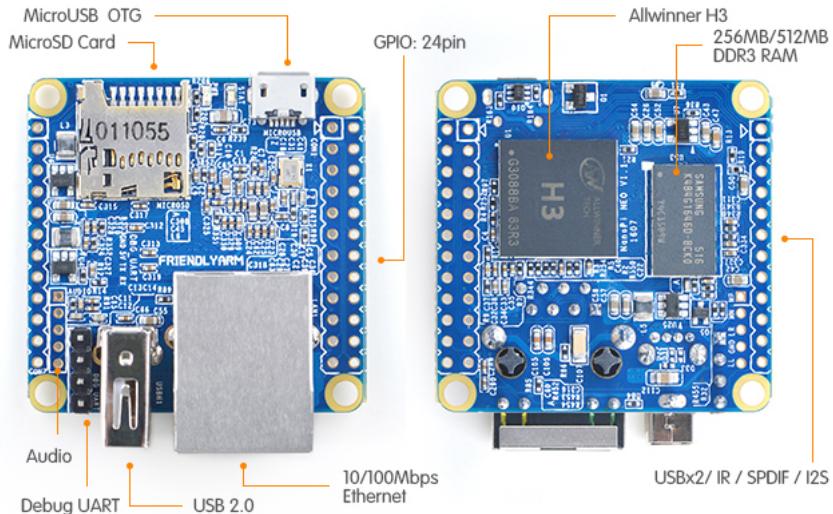
NanoPi NEO Heat Sink [click here](http://www.friendlyarm.com/index.php?route=product/product&path=82&product_id=134) (http://www.friendlyarm.com/index.php?route=product/product&path=82&product_id=134)



Build Your Own Super Computer.

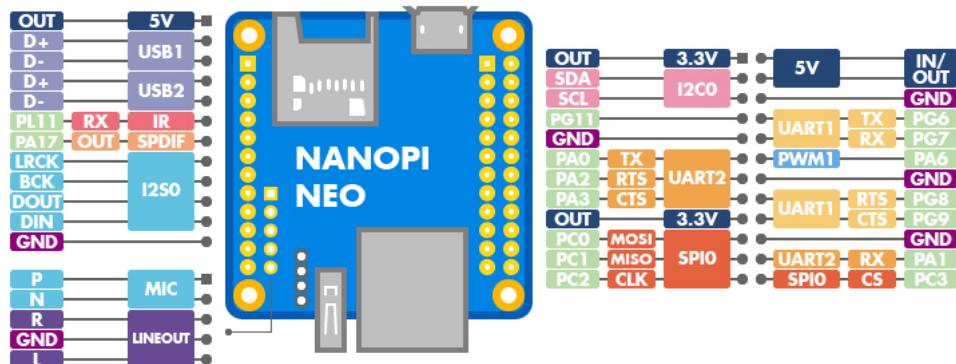


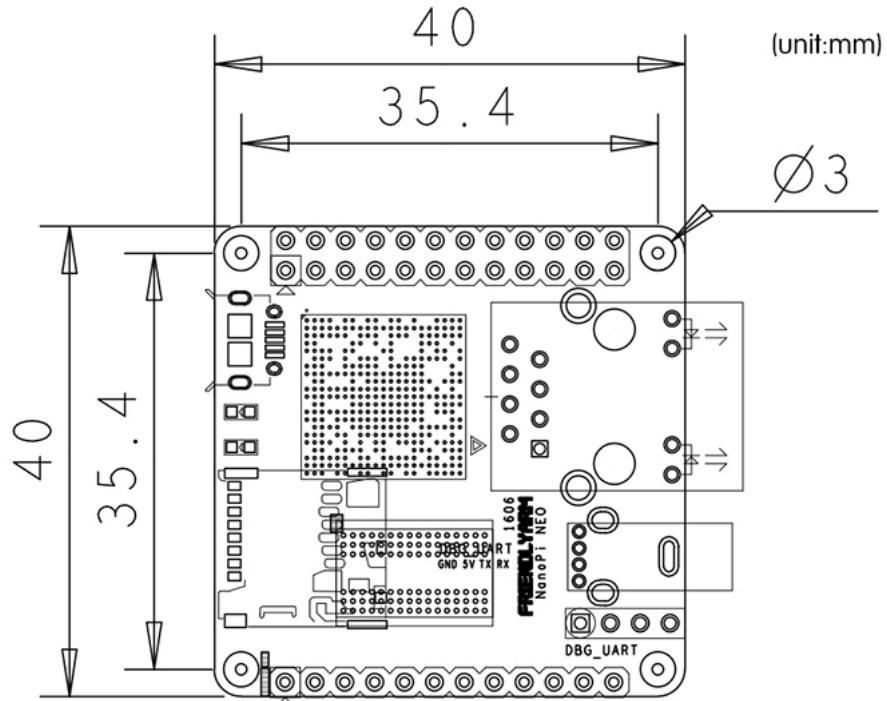
4-layer Dual Stack Acrylic Clear Case stacked with 8 NanoPi NEOs


 Layout and Specifications


- CPU: Allwinner H3, Quad-core Cortex-A7, up to 1.2GHz
- DDR3 RAM: 256MB/512MB
- Connectivity: 10/100M Ethernet
- USB Host: Type A, USB 2.0
- MicroSD Slot: x1
- MicroUSB: for power input and data transmission
- Serial Debug Port: 4pin, 2.54 mm pitch pin-header
- GPIO1: 2.54mm pitch 24pin. It includes UART, SPI, I2C, PWM, IO etc
- GPIO2: 2.54mm pitch 12pin. It includes USB, IR, SPDIF, I2S
- PCB Dimension: 40x40 mm
- Power Supply: DC 5V/2A
- OS/Software: u-boot, Ubuntu-Core

NanoPi NEO v1.1 pinout diagram





● ● Connections ● ●



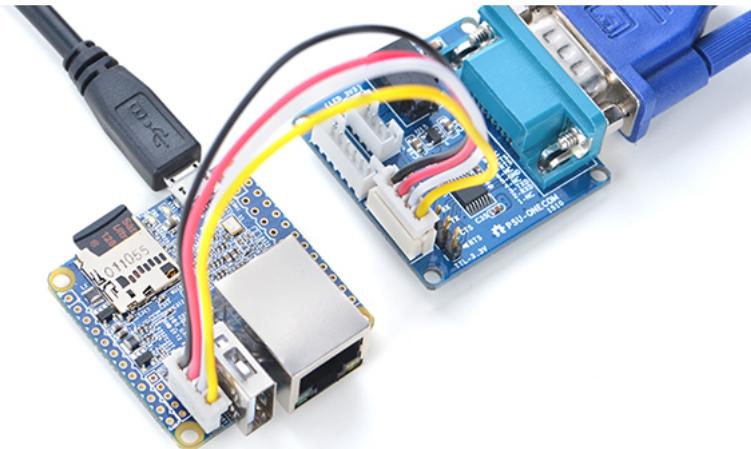
Connect NanoPi NEO to Ethernet

```

[ 6.623394] systemd[1]: Reached target Swap.
[ 6.637917] systemd[1]: Created slice Root Slice.
[ 6.653203] systemd[1]: Listening on udev Kernel Socket.
[ 6.669560] systemd[1]: Created slice System Slice.
[ 6.685594] systemd[1]: Created slice system-getty.slice.
[ 6.702281] systemd[1]: Listening on Journal Audit Socket.
[ 6.718944] systemd[1]: Listening on /dev/initctl Compatibility Named Pipe.
[ 6.737576] systemd[1]: Started Forward Password Requests to Wall Directory Watch.
[ 6.756990] systemd[1]: Listening on udev Control Socket.
[ 6.773849] systemd[1]: Reached target Paths.
[ 6.789783] systemd[1]: Created slice system-serial\x2dgetty.slice.
[ 6.807925] systemd[1]: Created slice User and Session Slice.
[ 6.825144] systemd[1]: Reached target Slices.
[ 6.840999] systemd[1]: Reached target Remote File Systems (Pre).
[ 6.858610] systemd[1]: Listening on Journal Socket.
[ 6.930557] systemd[1]: Mounting Debug File System...
[ 7.070671] systemd[1]: Starting Remount Root and Kernel File Systems...
[ 7.166593] systemd[1]: Starting Load Kernel Modules...
[ 7.260637] systemd[1]: Starting udev Coldplug all Devices...
[ 7.370740] systemd[1]: Starting Create list of required static device nodes for the current kernel...
[ 7.394233] systemd[1]: Listening on Journal Socket (/dev/log).
[ 7.550620] systemd[1]: Starting Journal Service...
[ 7.633965] systemd[1]: Mounted Debug File System.
[ 7.810171] systemd[1]: Started Remount Root and Kernel File Systems.
[ 8.010145] systemd[1]: Started Load Kernel Modules.
[ 8.380205] systemd[1]: Started Create list of required static device nodes for the current kernel.
[ 8.510152] systemd[1]: Started udev Coldplug all Devices.
[ 8.531668] systemd[1]: Started Journal Service.

Ubuntu 15.10 FriendlyARM ttyS0
FriendlyARM login: ■

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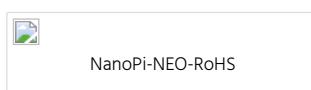


Log Into NanoPi NEO via Serial Port

Item List:
1 x NanoPi NEO



Certification





(image/catalog/details/NanoPi-NEO-FC.jpg)

(<http://www.heise.de/newsticker/meldung/Klein-kleiner-NanoPi-Computerchen-ab-8-Dollar-3268477.html>)

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<http://www.computeraudiophile.com/content/713-geek-speak-nanopi-neo-7-99-high-resolution-audio-endpoint/> (<http://www.computeraudiophile.com/content/713-geek-speak-nanopi-neo-7-99-high-resolution-audio-endpoint/>)

Related Resources

Wiki: http://wiki.friendlyarm.com/wiki/index.php/NanoPi_NE0 (http://wiki.friendlyarm.com/wiki/index.php/NanoPi_NE0)

Dimensional Diagram:<http://wiki.friendlyarm.com/wiki/images/9/99/NanoPi-NEO-1606-dimensions%28dxf%29.zip> (<http://wiki.friendlyarm.com/wiki/images/9/99/NanoPi-NEO-1606-dimensions%28dxf%29.zip>)

Schematics:<http://wiki.friendlyarm.com/wiki/images/a/aa/NanoPi-NEO-1606-Schematic.pdf> (<http://wiki.friendlyarm.com/wiki/images/a/aa/NanoPi-NEO-1606-Schematic.pdf>)

github:<https://github.com/friendlyarm> (<https://github.com/friendlyarm>)

sources:<https://www.mediafire.com/folder/n5o8ihvqhnf6s/Nanopi-NEO> (<https://www.mediafire.com/folder/n5o8ihvqhnf6s/Nanopi-NEO>)



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