

## NanoPC-T2, Faster & Smarter

Second Generation of NanoPC



S5P4418  
Quad-Core



1GB DDR3  
RAM



8GB eMMC



Gigabit  
Ethernet



DVP Camera  
Interface



WiFi & Bluetooth



60\*100mm  
size

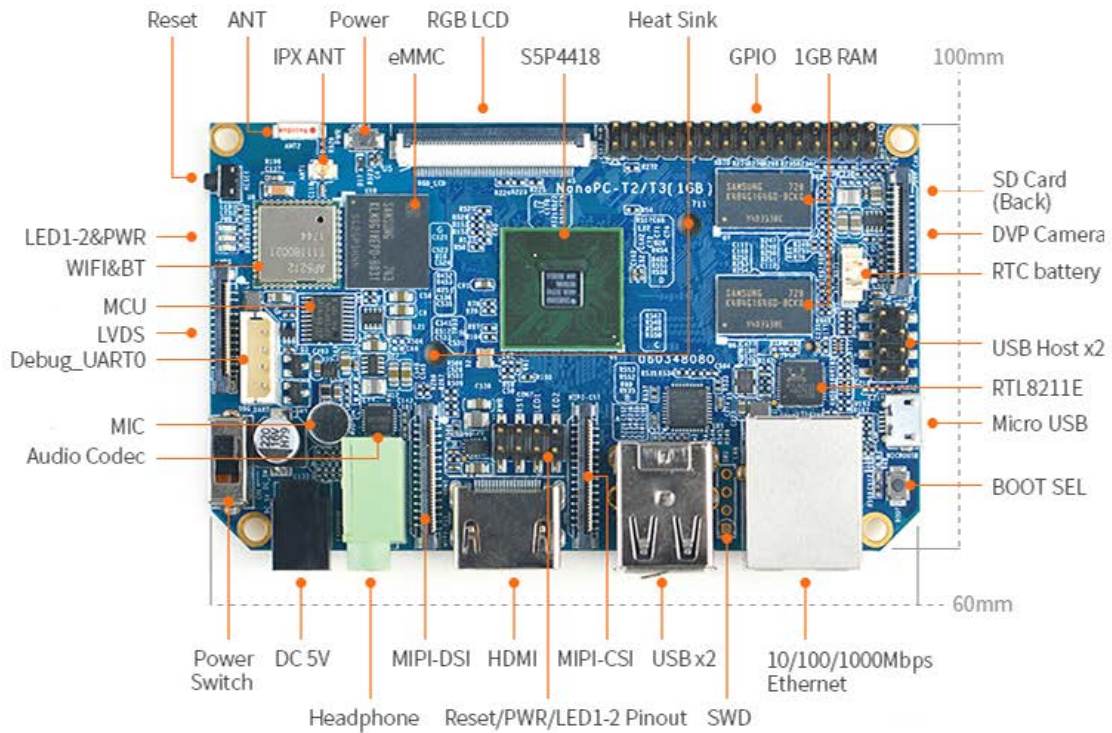
Most Complete Solution for Commercial & Industrial Applications

The NanoPC-T2 Quad-core Cortex A9 single board computer is designed and developed by FriendlyARM for professional and enterprise users. It uses Samsung Quad Core Cortex-A9 S5P4418 SoC@1.4GHz. Compared to FriendlyARM's existing 4418 based boards the NanoPC-T2 has 8G eMMC onboard, audio jack and video input/output interfaces.

Compared to its predecessor the NanoPC-T1 the NanoPC-T2 has built-in WiFi, Bluetooth and Gbps Ethernet port. In addition the NanoPC-T2 has power management which the NanoPC-T1 doesn't support. To avoid overheat issues the NanoPC-T2 has a heat sink with mounting holes.



The NanoPC-T2 combines all the ports and interfaces the existing FriendlyARM 4418 boards have. Currently it has the most interfaces and ports among all existing ARM boards of this size. Its rich video interfaces and support for HDMI 1080P make it work with not only popular display devices but also various FriendlyARM LCDs with both resistive touch and capacitive touch.



The NanoPC-T2 is FriendlyARM's most complete solution based on Samsung 4418 for both commercial and industrial applications.

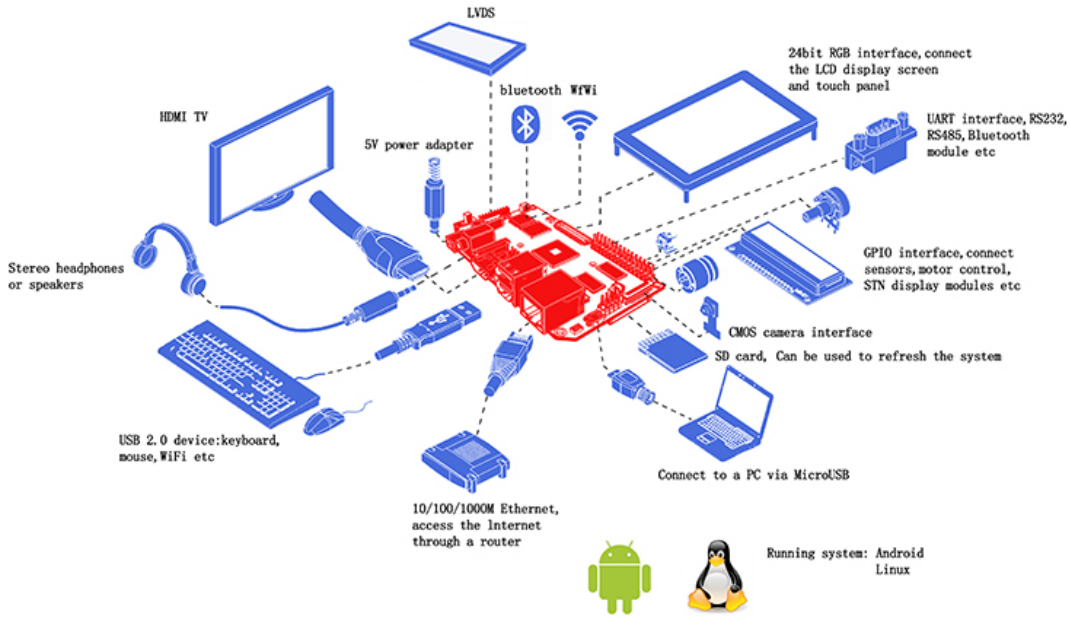


## NanoPC-T2 Features

- SoC: Samsung S5P4418 Quad Core Cortex-A9, 1.4G Hz
- PMU Power Management: Implemented by a Cortex-M0 MCU, support software power-off, sleep and wakeup functions
- System Memory: 1GB 32bit DDR3 RAM
- WiFi: 802.11b/g/n
- Bluetooth: 4.0 dual mode
- eMMC: 8GB
- Storage: 1 x SD Card Socket
- RTC Battery: RTC Battery Seat
- Ethernet: Gbit Ethernet Port
- Antenna: Porcelain Antenna IPX Interface
- Video Input: DVP Camera/MIPI-CSI (two camera interfaces)
- Video Output: HDMI Type-A / LVDS / LCD / MIPI-DSI (four video output interfaces)
- Audio: 3.5 mm audio jack / onboard Microphone
- USB: 4 x USB 2.0 Host
- MicroUSB: 1 x MicroUSB 2.0 Client, Type A
- LED: power LED / GPIO LED
- LCD Interface: 0.5mm pitch 45 pin FPC seat, full color RGB 8-8-8
- HDMI: 1.4A Type A, 1080P
- DVP Camera: 0.5mm pitch 24 pin FPC seat
- GPIO: 2.54 mm pitch 30 pin header
- Serial Debug Port: 2.54mm pitch 4pin header
- User Key: K1 (power), Reset
- Power: 5V/2A
- Heat Sink: 1 x Heat Sink with mounting holes
- PCB: Six Layer
- Dimension: 100 mm x 60 mm
- OS/Software: u-boot, Android 4.4, Android 5.1, Debian-Jessie, Ubuntu-Core-Xenial



# NanoPC-T2 Interfaces & Ports Overview



Choice of Enterprises & Professionals, Partner of Your Tech Life

## NanoPC-T2 Runs Android



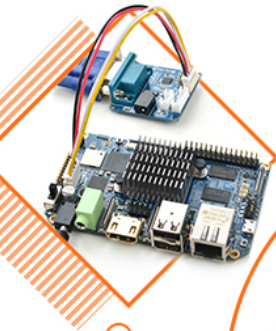
## NanoPC-T2 Runs Debian



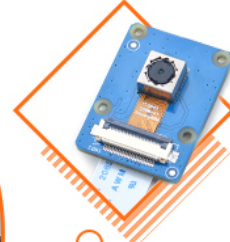
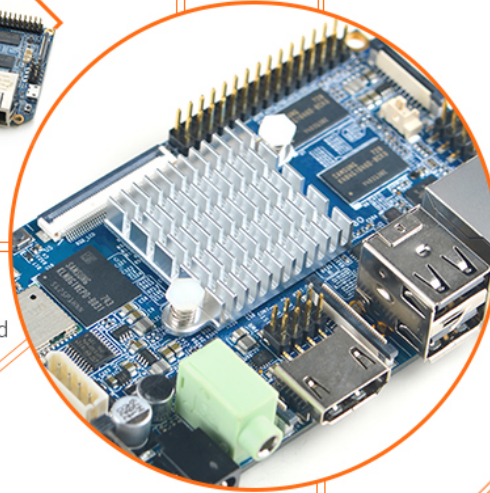


NanoPC T2 as Game Machine

NanoPC T2 as TV Box:  
Elegant HD Video Playing



NanoPC T2 Works  
with Serial Board for  
System Debugging and  
Development



NanoPC-T2 Works  
with DVP Camera in  
Data Collection



NanoPC-T2 as  
Advertisement Machine



NanoPC-T2 in Intelligent  
Medical Monitoring System

## Various OS Support

