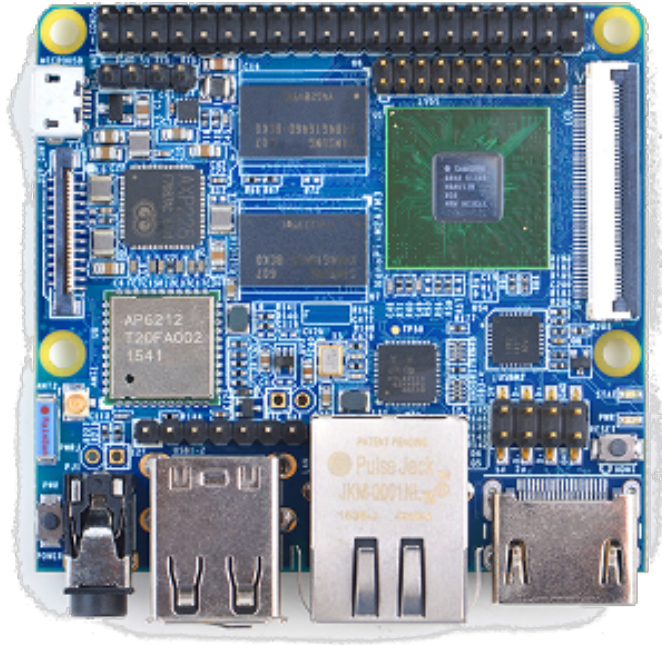


NanoPi M3 je nová vývojová doska vytvorená v čínskom FriendlyARM. Srdcom je SoC (System on Chip) Samsung Octa-Core Cortex-A53 S5P6818 SoC (64-bit RISC) postavený na 28 nm technológii. Doska s rozmermi 64x60 mm ponúka okrem HDMI video výstupu aj LVDS a LCD interface (RGB 8-8-8), USB, DVP camera interface, audio in/out, 1Gbps Ethernet, Wifi, Bluetooth a niekoľko GPIO na pin headeri. A to všetko s podporou Android-u a Debian linuxu v cene **35,- USD**.



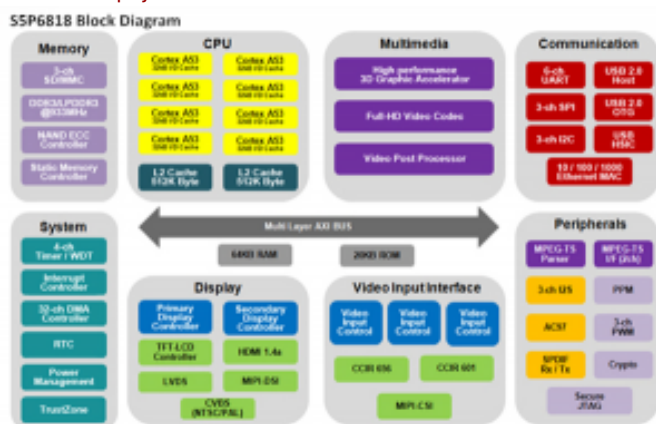
src: nanopi.io

Vlastnosti

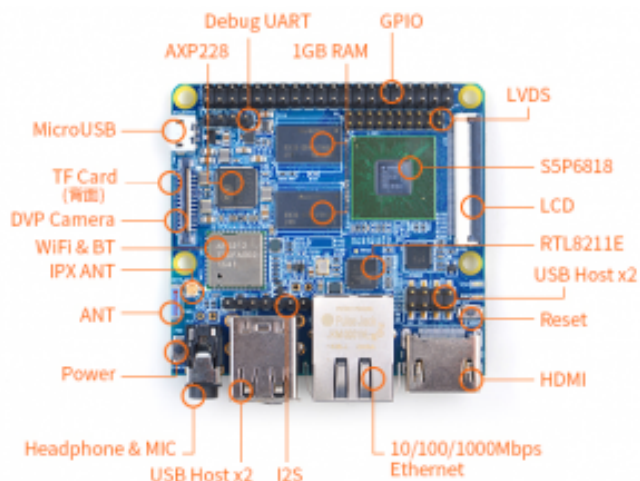
- SoC: Samsung S5P6818 Octa-Core Cortex-A53, 400M Hz - 1.4G Hz
- Power Management Unit: AXP228 PMU, it supports software power-off and wake-up.
- System Memory: 1GB 32bit DDR3 RAM
- Storage: 1 x MicroSD Card Socket
- Ethernet: Gbit Ethernet(RTL8211E)
- WiFi: 802.11b/g/n
- Bluetooth: 4.0 dual mode
- Antenna: Porcelain Antenna IPX Interface
- Audio: 3.5 mm audio jack / via HDMI
- I2S: 7pin, 2.54mm pitch pin-header
- Microphone: onboard Microphone
- USB Host: 4 x USB 2.0 Host, two type A ports and two 2.54 mm pitch pin-headers
- MicroUSB: 1 x MicroUSB 2.0 Client, Type A
- LCD Interface: 0.5mm pitch 45 pin FPC seat, full color RGB 8-8-8
- HDMI: 1.4A Type A, 1080P

- LVDS: 20pin 2.00mm pitch pin-header
- DVP Camera: 0.5mm pitch 24 pin FPC seat
- GPIO: 2.54 mm pitch 40 pin-header
- Serial Debug Port: 2.54mm pitch 4pin-header
- User Key: K1 (power), Reset
- LED: 1 x power LED and 1 x status LED
- RTC Battery: RTC Battery Seat
- Heat Sink: 1 x Heat Sink with mounting holes
- Power: DC 5V/2A
- PCB: Six Layer, ENIG
- Dimension: 64 mm x 60 mm
- OS/Software: uboot, Android and Debian

Blokové zapojenie S5P6818



src: community.arm.com



src: friendlyarm.com

Cena

NanoPi M3 zakúpíte u [FriendlyArm](#) len za 35,- USD (škoda, že poštovné do CZ/SK je 22,- USD)

Odkazy

- WIKI: http://wiki.friendlyarm.com/wiki/index.php/NanoPi_M3
- github: <https://github.com/friendlyarm>
- SOC Datasheet: [S5P6818 Datasheet](#)
- Schematic: [NanoPi-M2A-M3-1604-Schematic.pdf](#)
- PCB Dimension: [PCB DXF file](#)